PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7568559

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
CITRIX SYSTEMS, INC.	09/30/2022

RECEIVING PARTY DATA

Name:	WILMINGTON TRUST, NATIONAL ASSOCIATION
Street Address:	1100 NORTH MARKET STREET
City:	WILMINGTON
State/Country:	DELAWARE
Postal Code:	19890

PROPERTY NUMBERS Total: 2755

Property Type	Number
Application Number:	29732080
Application Number:	29724686
Application Number:	29724682
Application Number:	29724675
Application Number:	29713667
Application Number:	29713656
Application Number:	29713647
Application Number:	29713643
Application Number:	29713641
Application Number:	29678587
Application Number:	29678586
Application Number:	29678459
Application Number:	29678453
Application Number:	29678450
Application Number:	29678448
Application Number:	29678445
Application Number:	29678441
Application Number:	29635339
Application Number:	29635330
Application Number:	29635320

Property Type	Number
Application Number:	29635318
Application Number:	29635311
Application Number:	29629083
Application Number:	29629081
Application Number:	29629069
Application Number:	29436505
Application Number:	29436495
Application Number:	29435302
Application Number:	29435300
Application Number:	29434160
Application Number:	29434155
Application Number:	29409493
Application Number:	29409491
Application Number:	29409490
Application Number:	29409488
Application Number:	29390623
Application Number:	17501582
Application Number:	17351441
Application Number:	17349038
Application Number:	17224422
Application Number:	17217022
Application Number:	17209541
Application Number:	17179570
Application Number:	17171476
Application Number:	17163986
Application Number:	17156398
Application Number:	17140543
Application Number:	17140406
Application Number:	17132172
Application Number:	17117638
Application Number:	17114609
Application Number:	17102869
Application Number:	17082916
Application Number:	17073773
Application Number:	17072189
Application Number:	17034752
Application Number:	17034636
Application Number:	17034118

Property Type	Number
Application Number:	17022570
Application Number:	17014167
Application Number:	17005556
Application Number:	17004945
Application Number:	17002353
Application Number:	17002048
Application Number:	16989000
Application Number:	16942037
Application Number:	16940482
Application Number:	16935453
Application Number:	16933640
Application Number:	16919451
Application Number:	16918111
Application Number:	16906160
Application Number:	16901347
Application Number:	16893523
Application Number:	16889046
Application Number:	16885692
Application Number:	16878251
Application Number:	16867859
Application Number:	16862781
Application Number:	16862078
Application Number:	16860755
Application Number:	16859614
Application Number:	16857750
Application Number:	16857571
Application Number:	16857451
Application Number:	16854221
Application Number:	16846658
Application Number:	16841846
Application Number:	16837093
Application Number:	16815483
Application Number:	16815273
Application Number:	16809239
Application Number:	16793373
Application Number:	16792381
Application Number:	16785096
Application Number:	16776806

Property Type	Number
Application Number:	16775901
Application Number:	16774676
Application Number:	16751493
Application Number:	16751417
Application Number:	16747690
Application Number:	16739942
Application Number:	16737112
Application Number:	16732444
Application Number:	16730184
Application Number:	16724588
Application Number:	16718285
Application Number:	16710762
Application Number:	16703927
Application Number:	16695972
Application Number:	16687014
Application Number:	16686832
Application Number:	16684722
Application Number:	16678923
Application Number:	16666021
Application Number:	16663971
Application Number:	16658298
Application Number:	16655465
Application Number:	16654961
Application Number:	16600735
Application Number:	16599153
Application Number:	16592351
Application Number:	16591810
Application Number:	16585300
Application Number:	16585173
Application Number:	16585119
Application Number:	16580044
Application Number:	16578887
Application Number:	16570254
Application Number:	16570243
Application Number:	16567238
Application Number:	16566954
Application Number:	16552180
Application Number:	16550656

Property Type	Number
Application Number:	16550480
Application Number:	16547102
Application Number:	16545192
Application Number:	16544271
Application Number:	16543940
Application Number:	16530310
Application Number:	16530150
Application Number:	16522244
Application Number:	16520720
Application Number:	16511592
Application Number:	16510576
Application Number:	16507739
Application Number:	16502741
Application Number:	16466524
Application Number:	16454396
Application Number:	16451895
Application Number:	16447130
Application Number:	16446739
Application Number:	16445981
Application Number:	16444334
Application Number:	16439781
Application Number:	16434851
Application Number:	16430726
Application Number:	16428580
Application Number:	16426621
Application Number:	16423609
Application Number:	16421846
Application Number:	16420988
Application Number:	16420808
Application Number:	16417018
Application Number:	16416716
Application Number:	16416481
Application Number:	16416119
Application Number:	16415874
Application Number:	16415810
Application Number:	16415807
Application Number:	16415761
Application Number:	16415729

Property Type	Number
Application Number:	16415106
Application Number:	16414628
Application Number:	16406789
Application Number:	16404007
Application Number:	16403102
Application Number:	16403071
Application Number:	16403056
Application Number:	16402926
Application Number:	16402908
Application Number:	16402902
Application Number:	16402882
Application Number:	16402847
Application Number:	16402819
Application Number:	16401860
Application Number:	16401588
Application Number:	16399879
Application Number:	16399423
Application Number:	16397027
Application Number:	16396893
Application Number:	16389338
Application Number:	16385117
Application Number:	16378147
Application Number:	16377491
Application Number:	16374311
Application Number:	16372712
Application Number:	16371596
Application Number:	16371383
Application Number:	16343549
Application Number:	16297860
Application Number:	16297843
Application Number:	16295273
Application Number:	16291596
Application Number:	16291418
Application Number:	16287747
Application Number:	16287353
Application Number:	16286728
Application Number:	16276924
Application Number:	16274397

Property Type	Number
Application Number:	16274392
Application Number:	16273429
Application Number:	16269726
Application Number:	16268127
Application Number:	16267357
Application Number:	16266931
Application Number:	16266195
Application Number:	16266188
Application Number:	16265103
Application Number:	16264830
Application Number:	16264802
Application Number:	16259598
Application Number:	16257610
Application Number:	16247782
Application Number:	16246104
Application Number:	16244598
Application Number:	16242613
Application Number:	16242222
Application Number:	16241047
Application Number:	16240342
Application Number:	16238972
Application Number:	16238865
Application Number:	16238202
Application Number:	16238056
Application Number:	16236832
Application Number:	16235772
Application Number:	16232613
Application Number:	16232451
Application Number:	16232416
Application Number:	16229445
Application Number:	16229308
Application Number:	16229251
Application Number:	16228964
Application Number:	16228945
Application Number:	16227284
Application Number:	16227064
Application Number:	16223965
Application Number:	16223475

Property Type	Number
Application Number:	16223421
Application Number:	16221995
Application Number:	16221849
Application Number:	16217777
Application Number:	16217176
Application Number:	16213078
Application Number:	16212934
Application Number:	16210793
Application Number:	16210706
Application Number:	16210565
Application Number:	16210484
Application Number:	16209070
Application Number:	16207423
Application Number:	16206362
Application Number:	16202294
Application Number:	16201661
Application Number:	16201089
Application Number:	16198249
Application Number:	16196799
Application Number:	16196159
Application Number:	16194823
Application Number:	16193802
Application Number:	16192136
Application Number:	16190753
Application Number:	16190222
Application Number:	16188184
Application Number:	16188176
Application Number:	16188118
Application Number:	16185961
Application Number:	16185805
Application Number:	16185733
Application Number:	16184707
Application Number:	16184676
Application Number:	16184295
Application Number:	16183232
Application Number:	16183226
Application Number:	16183210
Application Number:	16183190

Property Type	Number
Application Number:	16182734
Application Number:	16182250
Application Number:	16182191
Application Number:	16182171
Application Number:	16181988
Application Number:	16180721
Application Number:	16179641
Application Number:	16178803
Application Number:	16176226
Application Number:	16175225
Application Number:	16174548
Application Number:	16174499
Application Number:	16171688
Application Number:	16171652
Application Number:	16171618
Application Number:	16165130
Application Number:	16164258
Application Number:	16160337
Application Number:	16159020
Application Number:	16157472
Application Number:	16157260
Application Number:	16156458
Application Number:	16156267
Application Number:	16153045
Application Number:	16149626
Application Number:	16148591
Application Number:	16148474
Application Number:	16145927
Application Number:	16145814
Application Number:	16144344
Application Number:	16141074
Application Number:	16139800
Application Number:	16138598
Application Number:	16138076
Application Number:	16135773
Application Number:	16135715
Application Number:	16133347
Application Number:	16131878

Property Type	Number
Application Number:	16130595
Application Number:	16129240
Application Number:	16128424
Application Number:	16127531
Application Number:	16127422
Application Number:	16122461
Application Number:	16122446
Application Number:	16121743
Application Number:	16117138
Application Number:	16115718
Application Number:	16114764
Application Number:	16112849
Application Number:	16111571
Application Number:	16111328
Application Number:	16109935
Application Number:	16108381
Application Number:	16107670
Application Number:	16100944
Application Number:	16059619
Application Number:	16058508
Application Number:	16056887
Application Number:	16056868
Application Number:	16053125
Application Number:	16047109
Application Number:	16044942
Application Number:	16043392
Application Number:	16042090
Application Number:	16039589
Application Number:	16038391
Application Number:	16032673
Application Number:	16032419
Application Number:	16029875
Application Number:	16028861
Application Number:	16028543
Application Number:	16028106
Application Number:	16027481
Application Number:	16022900
Application Number:	16017368

Property Type	Number
Application Number:	16016042
Application Number:	16015813
Application Number:	16012963
Application Number:	16010580
Application Number:	16009503
Application Number:	16007043
Application Number:	16004141
Application Number:	16001308
Application Number:	15998862
Application Number:	15995540
Application Number:	15992235
Application Number:	15990258
Application Number:	15982324
Application Number:	15982301
Application Number:	15977641
Application Number:	15976980
Application Number:	15976411
Application Number:	15974905
Application Number:	15973202
Application Number:	15972571
Application Number:	15971157
Application Number:	15970079
Application Number:	15970007
Application Number:	15969308
Application Number:	15969044
Application Number:	15966068
Application Number:	15963841
Application Number:	15959531
Application Number:	15957642
Application Number:	15953590
Application Number:	15951665
Application Number:	15950323
Application Number:	15946692
Application Number:	15944107
Application Number:	15941162
Application Number:	15938769
Application Number:	15938753
Application Number:	15928160

Property Type	Number
Application Number:	15927125
Application Number:	15924771
Application Number:	15923977
Application Number:	15923548
Application Number:	15922454
Application Number:	15919935
Application Number:	15917276
Application Number:	15915203
Application Number:	15910127
Application Number:	15908002
Application Number:	15896935
Application Number:	15896884
Application Number:	15890975
Application Number:	15889394
Application Number:	15886985
Application Number:	15885901
Application Number:	15880938
Application Number:	15880930
Application Number:	15878911
Application Number:	15878892
Application Number:	15876847
Application Number:	15876828
Application Number:	15875730
Application Number:	15875437
Application Number:	15875424
Application Number:	15875087
Application Number:	15874119
Application Number:	15873252
Application Number:	15873015
Application Number:	15869341
Application Number:	15867456
Application Number:	15867353
Application Number:	15863853
Application Number:	15858337
Application Number:	15851881
Application Number:	15848442
Application Number:	15847657
Application Number:	15846749

Property Type	Number
Application Number:	15843449
Application Number:	15840256
Application Number:	15838769
Application Number:	15834204
Application Number:	15831749
Application Number:	15825870
Application Number:	15825561
Application Number:	15825506
Application Number:	15820530
Application Number:	15820085
Application Number:	15817832
Application Number:	15815615
Application Number:	15813739
Application Number:	15806417
Application Number:	15804940
Application Number:	15801400
Application Number:	15800625
Application Number:	15796540
Application Number:	15790410
Application Number:	15790382
Application Number:	15788952
Application Number:	15787482
Application Number:	15787463
Application Number:	15785871
Application Number:	15785335
Application Number:	15784328
Application Number:	15764716
Application Number:	15728333
Application Number:	15726521
Application Number:	15725897
Application Number:	15724764
Application Number:	15723978
Application Number:	15723939
Application Number:	15722767
Application Number:	15720183
Application Number:	15719232
Application Number:	15718270
Application Number:	15718098

Property Type	Number
Application Number:	15716871
Application Number:	15715686
Application Number:	15714460
Application Number:	15712405
Application Number:	15711336
Application Number:	15711124
Application Number:	15710999
Application Number:	15710485
Application Number:	15710337
Application Number:	15710315
Application Number:	15707077
Application Number:	15700587
Application Number:	15699892
Application Number:	15698822
Application Number:	15695793
Application Number:	15690417
Application Number:	15689581
Application Number:	15689568
Application Number:	15688424
Application Number:	15688252
Application Number:	15681535
Application Number:	15679686
Application Number:	15677727
Application Number:	15676483
Application Number:	15674169
Application Number:	15670749
Application Number:	15667456
Application Number:	15663255
Application Number:	15663186
Application Number:	15661740
Application Number:	15661296
Application Number:	15661290
Application Number:	15660147
Application Number:	15659285
Application Number:	15654968
Application Number:	15654525
Application Number:	15654522
Application Number:	15654517

Property Type	Number
Application Number:	15653187
Application Number:	15652937
Application Number:	15652902
Application Number:	15650371
Application Number:	15650137
Application Number:	15647626
Application Number:	15646141
Application Number:	15643268
Application Number:	15643263
Application Number:	15643230
Application Number:	15637089
Application Number:	15636861
Application Number:	15634193
Application Number:	15628833
Application Number:	15628807
Application Number:	15628107
Application Number:	15627958
Application Number:	15627950
Application Number:	15619052
Application Number:	15608144
Application Number:	15605199
Application Number:	15602613
Application Number:	15601476
Application Number:	15600894
Application Number:	15598912
Application Number:	15598759
Application Number:	15596228
Application Number:	15595885
Application Number:	15595026
Application Number:	15594892
Application Number:	15583975
Application Number:	15581696
Application Number:	15496871
Application Number:	15496675
Application Number:	15496102
Application Number:	15490529
Application Number:	15486967
Application Number:	15483076

Property Type	Number
Application Number:	15482904
Application Number:	15482423
Application Number:	15477419
Application Number:	15472872
Application Number:	15472798
Application Number:	15472685
Application Number:	15470359
Application Number:	15470072
Application Number:	15466151
Application Number:	15465023
Application Number:	15463635
Application Number:	15463300
Application Number:	15462524
Application Number:	15459890
Application Number:	15455751
Application Number:	15455269
Application Number:	15454486
Application Number:	15453499
Application Number:	15450654
Application Number:	15447954
Application Number:	15444999
Application Number:	15443835
Application Number:	15430759
Application Number:	15427775
Application Number:	15422761
Application Number:	15418872
Application Number:	15416090
Application Number:	15416080
Application Number:	15412310
Application Number:	15406976
Application Number:	15406264
Application Number:	15405461
Application Number:	15403690
Application Number:	15401413
Application Number:	15386609
Application Number:	15368876
Application Number:	15358806
Application Number:	15358340

Property Type	Number
Application Number:	15357363
Application Number:	15356827
Application Number:	15353534
Application Number:	15352748
Application Number:	15347247
Application Number:	15335952
Application Number:	15332175
Application Number:	15297023
Application Number:	15295738
Application Number:	15289472
Application Number:	15286835
Application Number:	15286731
Application Number:	15268730
Application Number:	15262773
Application Number:	15259826
Application Number:	15259285
Application Number:	15255640
Application Number:	15252888
Application Number:	15252821
Application Number:	15251807
Application Number:	15245564
Application Number:	15244823
Application Number:	15234336
Application Number:	15223206
Application Number:	15221907
Application Number:	15215175
Application Number:	15207080
Application Number:	15199592
Application Number:	15196702
Application Number:	15195112
Application Number:	15191900
Application Number:	15189197
Application Number:	15161540
Application Number:	15160047
Application Number:	15159900
Application Number:	15158913
Application Number:	15158249
Application Number:	15154227

Property Type	Number
Application Number:	15150558
Application Number:	15149707
Application Number:	15148425
Application Number:	15148400
Application Number:	15148374
Application Number:	15146131
Application Number:	15145148
Application Number:	15143181
Application Number:	15140683
Application Number:	15136253
Application Number:	15076805
Application Number:	15062510
Application Number:	15057314
Application Number:	15054444
Application Number:	15048469
Application Number:	15045558
Application Number:	15019118
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Application Number:	14978830
Application Number:	14967958
Application Number:	14963837
Application Number:	14950896
Application Number:	14950400
Application Number:	14946235
Application Number:	14928217
Application Number:	14927867

Property Type	Number
Application Number:	14927692
Application Number:	14927600
Application Number:	14927580
Application Number:	14927553
Application Number:	14925424
Application Number:	14925410
Application Number:	14923098
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Application Number:	14846946
Application Number:	14846945
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Application Number:	14837659
Application Number:	14833329
Application Number:	14830790
Application Number:	14823733
Application Number:	14823268
Application Number:	14819644
Application Number:	14819626
Application Number:	14816800

Property Type	Number
Application Number:	14816000
Application Number:	14815066
Application Number:	14813567
Application Number:	14811695
Application Number:	14808601
Application Number:	14806740
Application Number:	14804705
Application Number:	14800371
Application Number:	14789616
Application Number:	14755703
Application Number:	14753636
Application Number:	14753614
Application Number:	14752132
Application Number:	14750615
Application Number:	14750036
Application Number:	14748796
Application Number:	14746300
Application Number:	14743877
Application Number:	14743520
Application Number:	14742811
Application Number:	14742264
Application Number:	14742254
Application Number:	14735318
Application Number:	14734468
Application Number:	14733490
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Application Number:	14718217
Application Number:	14712960
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Application Number:	14708690
Application Number:	14708464
Application Number:	14707653
Application Number:	14704740
Application Number:	14704400

Property Type	Number
Application Number:	14704388
Application Number:	14704075
Application Number:	14703074
Application Number:	14702954
Application Number:	14702842
Application Number:	14701561
Application Number:	14699712
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Application Number:	14632848
Application Number:	14632809
Application Number:	14632729
Application Number:	14632618
Application Number:	14632601
Application Number:	14626755
Application Number:	14626562
Application Number:	14626516

Property Type	Number
Application Number:	14624300
Application Number:	14622480
Application Number:	14614759
Application Number:	14609033
Application Number:	14607854
Application Number:	14607593
Application Number:	14605178
Application Number:	14603781
Application Number:	14602629
Application Number:	14599588
Application Number:	14598420
Application Number:	14595070
Application Number:	14594963
Application Number:	14586454
Application Number:	14579817
Application Number:	14571342
Application Number:	14571081
Application Number:	14566553
Application Number:	14563931
Application Number:	14563904
Application Number:	14561856
Application Number:	14557317
Application Number:	14550719
Application Number:	14546743
Application Number:	14539681
Application Number:	14535597
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Application Number:	14515646
Application Number:	14508245
Application Number:	14508233
Application Number:	14506516
Application Number:	14505868
Application Number:	14503092
Application Number:	14502598

Property Type	Number
Application Number:	14498816
Application Number:	14497193
Application Number:	14492071
Application Number:	14491515
Application Number:	14491486
Application Number:	14491013
Application Number:	14490198
Application Number:	14486676
Application Number:	14482963
Application Number:	14481215
Application Number:	14473307
Application Number:	14472371
Application Number:	14469194
Application Number:	14467749
Application Number:	14464585
Application Number:	14463234
Application Number:	14463230
Application Number:	14462204
Application Number:	14461248
Application Number:	14458054
Application Number:	14456603
Application Number:	14454698
Application Number:	14454691
Application Number:	14448642
Application Number:	14448298
Application Number:	14448265
Application Number:	14340096
Application Number:	14340049
Application Number:	14339081
Application Number:	14335466
Application Number:	14335404
Application Number:	14334586
Application Number:	14330391
Application Number:	14317795
Application Number:	14306354
Application Number:	14303125
Application Number:	14300702
Application Number:	14300078

Property Type	Number
Application Number:	14298401
Application Number:	14292683
Application Number:	14287326
Application Number:	14286610
Application Number:	14286296
Application Number:	14283809
Application Number:	14283574
Application Number:	14282954
Application Number:	14282894
Application Number:	14282421
Application Number:	14282411
Application Number:	14281834
Application Number:	14270715
Application Number:	14265661
Application Number:	14263264
Application Number:	14259586
Application Number:	14256387
Application Number:	14253069
Application Number:	14251016
Application Number:	14249850
Application Number:	14248832
Application Number:	14247866
Application Number:	14247401
Application Number:	14245568
Application Number:	14245533
Application Number:	14245528
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Application Number:	14245514
Application Number:	14245505
Application Number:	14245336
Application Number:	14245329
Application Number:	14245299
Application Number:	14245296
Application Number:	14245057
Application Number:	14244949
Application Number:	14244597
Application Number:	14244560
Application Number:	14244504

Property Type	Number
Application Number:	14244375
Application Number:	14244329
Application Number:	14244315
Application Number:	14242011
Application Number:	14223680
Application Number:	14221958
Application Number:	14211966
Application Number:	14199703
Application Number:	14198314
Application Number:	14192556
Application Number:	14187881
Application Number:	14178598
Application Number:	14176604
Application Number:	14175616
Application Number:	14172385
Application Number:	14172321
Application Number:	14162541
Application Number:	14161553
Application Number:	14161417
Application Number:	14154590
Application Number:	14152355
Application Number:	14152114
Application Number:	14151972
Application Number:	14151633
Application Number:	14147306
Application Number:	14144702
Application Number:	14143613
Application Number:	14143588
Application Number:	14140843
Application Number:	14139621
Application Number:	14139359
Application Number:	14139135
Application Number:	14134263
Application Number:	14132303
Application Number:	14107386
Application Number:	14106223
Application Number:	14106171
Application Number:	14104457

Property Type	Number
Application Number:	14101010
Application Number:	14100988
Application Number:	14100867
Application Number:	14095418
Application Number:	14094697
Application Number:	14081483
Application Number:	14080453
Application Number:	14075499
Application Number:	14075460
Application Number:	14065161
Application Number:	14060519
Application Number:	14059039
Application Number:	14057438
Application Number:	14055078
Application Number:	14054899
Application Number:	14051664
Application Number:	14050488
Application Number:	14049918
Application Number:	14048931
Application Number:	14048611
Application Number:	14047602
Application Number:	14045922
Application Number:	14045901
Application Number:	14045543
Application Number:	14045014
Application Number:	14045005
Application Number:	14044972
Application Number:	14044946
Application Number:	14044928
Application Number:	14044919
Application Number:	14044901
Application Number:	14043597
Application Number:	14043343
Application Number:	14043301
Application Number:	14043229
Application Number:	14043164
Application Number:	14043086
Application Number:	14043012

Property Type	Number
Application Number:	14042984
Application Number:	14042941
Application Number:	14042354
Application Number:	14041946
Application Number:	14041935
Application Number:	14041923
Application Number:	14041911
Application Number:	14041772
Application Number:	14041763
Application Number:	14040831
Application Number:	14038422
Application Number:	14037855
Application Number:	14037634
Application Number:	14035386
Application Number:	14032885
Application Number:	14032756
Application Number:	14032706
Application Number:	14032643
Application Number:	14032439
Application Number:	14029096
Application Number:	14029088
Application Number:	14029068
Application Number:	14028133
Application Number:	14026442
Application Number:	14025898
Application Number:	14022845
Application Number:	14021227
Application Number:	14016560
Application Number:	14015463
Application Number:	14015245
Application Number:	14015227
Application Number:	14015194
Application Number:	14015108
Application Number:	14015078
Application Number:	14013816
Application Number:	14013765
Application Number:	13975161
Application Number:	13969796

Property Type	Number
Application Number:	13969440
Application Number:	13966681
Application Number:	13965759
Application Number:	13965003
Application Number:	13963936
Application Number:	13963851
Application Number:	13963825
Application Number:	13963811
Application Number:	13963794
Application Number:	13963758
Application Number:	13963739
Application Number:	13962445
Application Number:	13961850
Application Number:	13960740
Application Number:	13955807
Application Number:	13955797
Application Number:	13955517
Application Number:	13955213
Application Number:	13953262
Application Number:	13951761
Application Number:	13943662
Application Number:	13935320
Application Number:	13931987
Application Number:	13929985
Application Number:	13929202
Application Number:	13913192
Application Number:	13902612
Application Number:	13898167
Application Number:	13897935
Application Number:	13897539
Application Number:	13896528
Application Number:	13895284
Application Number:	13895279
Application Number:	13894028
Application Number:	13891709
Application Number:	13891089
Application Number:	13888689
Application Number:	13888495

Property Type	Number
Application Number:	13887004
Application Number:	13887001
Application Number:	13886991
Application Number:	13886905
Application Number:	13886889
Application Number:	13886845
Application Number:	13886765
Application Number:	13886543
Application Number:	13886526
Application Number:	13886518
Application Number:	13886024
Application Number:	13882153
Application Number:	13874754
Application Number:	13869831
Application Number:	13864325
Application Number:	13861731
Application Number:	13861702
Application Number:	13858018
Application Number:	13858011
Application Number:	13858010
Application Number:	13858009
Application Number:	13858008
Application Number:	13858007
Application Number:	13858003
Application Number:	13858002
Application Number:	13856263
Application Number:	13850869
Application Number:	13850848
Application Number:	13846682
Application Number:	13846671
Application Number:	13846341
Application Number:	13836884
Application Number:	13836747
Application Number:	13835294
Application Number:	13828518
Application Number:	13799776
Application Number:	13788445
Application Number:	13788259

Property Type	Number
Application Number:	13788247
Application Number:	13786419
Application Number:	13786417
Application Number:	13777222
Application Number:	13776146
Application Number:	13776041
Application Number:	13769425
Application Number:	13767510
Application Number:	13764295
Application Number:	13762129
Application Number:	13760898
Application Number:	13750490
Application Number:	13748032
Application Number:	13744614
Application Number:	13740982
Application Number:	13739895
Application Number:	13735550
Application Number:	13732905
Application Number:	13724665
Application Number:	13723132
Application Number:	13722216
Application Number:	13712658
Application Number:	13712333
Application Number:	13706806
Application Number:	13693424
Application Number:	13688497
Application Number:	13687623
Application Number:	13686445
Application Number:	13679881
Application Number:	13677041
Application Number:	13673445
Application Number:	13662483
Application Number:	13660442
Application Number:	13652121
Application Number:	13651886
Application Number:	13649534
Application Number:	13649076
Application Number:	13649073

Property Type	Number
Application Number:	13649071
Application Number:	13649069
Application Number:	13649064
Application Number:	13649063
Application Number:	13649024
Application Number:	13649022
Application Number:	13648993
Application Number:	13648975
Application Number:	13644659
Application Number:	13631686
Application Number:	13621990
Application Number:	13619294
Application Number:	13619207
Application Number:	13618180
Application Number:	13602899
Application Number:	13600646
Application Number:	13600331
Application Number:	13593986
Application Number:	13592891
Application Number:	13590630
Application Number:	13589796
Application Number:	13588152
Application Number:	13567452
Application Number:	13560390
Application Number:	13558001
Application Number:	13557086
Application Number:	13549975
Application Number:	13547635
Application Number:	13544533
Application Number:	13535350
Application Number:	13535344
Application Number:	13533713
Application Number:	13533507
Application Number:	13525042
Application Number:	13525039
Application Number:	13524977
Application Number:	13524964
Application Number:	13524923

Property Type	Number
Application Number:	13524841
Application Number:	13524799
Application Number:	13524784
Application Number:	13524766
Application Number:	13524739
Application Number:	13524721
Application Number:	13524709
Application Number:	13524697
Application Number:	13524692
Application Number:	13524639
Application Number:	13524624
Application Number:	13523729
Application Number:	13502106
Application Number:	13502100
Application Number:	13492804
Application Number:	13492803
Application Number:	13486850
Application Number:	13480333
Application Number:	13479081
Application Number:	13478710
Application Number:	13475413
Application Number:	13475299
Application Number:	13475200
Application Number:	13475082
Application Number:	13475055
Application Number:	13474936
Application Number:	13474238
Application Number:	13469457
Application Number:	13468603
Application Number:	13464818
Application Number:	13464773
Application Number:	13463287
Application Number:	13460247
Application Number:	13460186
Application Number:	13459830
Application Number:	13455221
Application Number:	13453188
Application Number:	13445504

Property Type	Number
Application Number:	13434645
Application Number:	13431776
Application Number:	13431766
Application Number:	13414105
Application Number:	13413508
Application Number:	13410659
Application Number:	13409751
Application Number:	13407403
Application Number:	13407133
Application Number:	13404655
Application Number:	13402179
Application Number:	13401341
Application Number:	13398302
Application Number:	13398008
Application Number:	13372705
Application Number:	13371862
Application Number:	13369930
Application Number:	13369151
Application Number:	13362346
Application Number:	13358494
Application Number:	13349370
Application Number:	13346314
Application Number:	13337735
Application Number:	13337726
Application Number:	13337716
Application Number:	13337712
Application Number:	13337706
Application Number:	13336668
Application Number:	13330275
Application Number:	13330164
Application Number:	13329841
Application Number:	13327253
Application Number:	13302880
Application Number:	13294965
Application Number:	13290942
Application Number:	13290621
Application Number:	13286869
Application Number:	13285699

Property Type	Number
Application Number:	13285362
Application Number:	13284492
Application Number:	13276097
Application Number:	13272040
Application Number:	13267031
Application Number:	13253646
Application Number:	13253452
Application Number:	13253426
Application Number:	13253414
Application Number:	13253370
Application Number:	13252557
Application Number:	13243402
Application Number:	13240998
Application Number:	13240971
Application Number:	13237047
Application Number:	13234474
Application Number:	13212068
Application Number:	13208970
Application Number:	13208093
Application Number:	13190143
Application Number:	13186350
Application Number:	13173216
Application Number:	13149383
Application Number:	13110787
Application Number:	13108836
Application Number:	13103350
Application Number:	13103318
Application Number:	13102937
Application Number:	13102902
Application Number:	13102793
Application Number:	13102301
Application Number:	13100936
Application Number:	13098727
Application Number:	13093703
Application Number:	13078846
Application Number:	13073709
Application Number:	13073705
Application Number:	13072276

Property Type	Number
Application Number:	13052931
Application Number:	13031919
Application Number:	13020803
Application Number:	13020802
Application Number:	13020799
Application Number:	13018314
Application Number:	13011580
Application Number:	13008634
Application Number:	12987292
Application Number:	12987269
Application Number:	12986704
Application Number:	12981266
Application Number:	12977725
Application Number:	12976710
Application Number:	12976706
Application Number:	12976697
Application Number:	12976693
Application Number:	12976688
Application Number:	12976683
Application Number:	12976678
Application Number:	12968091
Application Number:	12968084
Application Number:	12968082
Application Number:	12968077
Application Number:	12968069
Application Number:	12968066
Application Number:	12967362
Application Number:	12967358
Application Number:	12967348
Application Number:	12967260
Application Number:	12967020
Application Number:	12964477
Application Number:	12963539
Application Number:	12963535
Application Number:	12954319
Application Number:	12947647
Application Number:	12912599
Application Number:	12908847

Property Type	Number
Application Number:	12908840
Application Number:	12908827
Application Number:	12902542
Application Number:	12899004
Application Number:	12897871
Application Number:	12897863
Application Number:	12895750
Application Number:	12893080
Application Number:	12893025
Application Number:	12881119
Application Number:	12877238
Application Number:	12874927
Application Number:	12873042
Application Number:	12871246
Application Number:	12858354
Application Number:	12855335
Application Number:	12855327
Application Number:	12855324
Application Number:	12851449
Application Number:	12851438
Application Number:	12851430
Application Number:	12841003
Application Number:	12840932
Application Number:	12840632
Application Number:	12838171
Application Number:	12835430
Application Number:	12827610
Application Number:	12827415
Application Number:	12823890
Application Number:	12823643
Application Number:	12822825
Application Number:	12820948
Application Number:	12820850
Application Number:	12820736
Application Number:	12820730
Application Number:	12820607
Application Number:	12820384
Application Number:	12818882

Property Type	Number
Application Number:	12818614
Application Number:	12818306
Application Number:	12795496
Application Number:	12794446
Application Number:	12790400
Application Number:	12788023
Application Number:	12787231
Application Number:	12784883
Application Number:	12784872
Application Number:	12784863
Application Number:	12784468
Application Number:	12784454
Application Number:	12783266
Application Number:	12773007
Application Number:	12772980
Application Number:	12772977
Application Number:	12771580
Application Number:	12766324
Application Number:	12764633
Application Number:	12763492
Application Number:	12758456
Application Number:	12754397
Application Number:	12753516
Application Number:	12750089
Application Number:	12729772
Application Number:	12729524
Application Number:	12728740
Application Number:	12728729
Application Number:	12719693
Application Number:	12718844
Application Number:	12709179
Application Number:	12709172
Application Number:	12704056
Application Number:	12702807
Application Number:	12696333
Application Number:	12694902
Application Number:	12685507
Application Number:	12684427

Property Type	Number
Application Number:	12652264
Application Number:	12645938
Application Number:	12645924
Application Number:	12645913
Application Number:	12645907
Application Number:	12645889
Application Number:	12645882
Application Number:	12645874
Application Number:	12645869
Application Number:	12645864
Application Number:	12645860
Application Number:	12645848
Application Number:	12645845
Application Number:	12645844
Application Number:	12645833
Application Number:	12645828
Application Number:	12645822
Application Number:	12645816
Application Number:	12645803
Application Number:	12645796
Application Number:	12645754
Application Number:	12645677
Application Number:	12645664
Application Number:	12634496
Application Number:	12634339
Application Number:	12630704
Application Number:	12627534
Application Number:	12626204
Application Number:	12625010
Application Number:	12625004
Application Number:	12624997
Application Number:	12617146
Application Number:	12617101
Application Number:	12609731
Application Number:	12609684
Application Number:	12609615
Application Number:	12609486
Application Number:	12609184

Property Type	Number
Application Number:	12608753
Application Number:	12607365
Application Number:	12576523
Application Number:	12576004
Application Number:	12575315
Application Number:	12575278
Application Number:	12575121
Application Number:	12573447
Application Number:	12569006
Application Number:	12568410
Application Number:	12567402
Application Number:	12566019
Application Number:	12565401
Application Number:	12563275
Application Number:	12560154
Application Number:	12557497
Application Number:	12556624
Application Number:	12556619
Application Number:	12556611
Application Number:	12556540
Application Number:	12546223
Application Number:	12534720
Application Number:	12506587
Application Number:	12501667
Application Number:	12496353
Application Number:	12489333
Application Number:	12489331
Application Number:	12489329
Application Number:	12489325
Application Number:	12489320
Application Number:	12489286
Application Number:	12489279
Application Number:	12489249
Application Number:	12489215
Application Number:	12489207
Application Number:	12489201
Application Number:	12489194
Application Number:	12489189

Property Type	Number
Application Number:	12489180
Application Number:	12489165
Application Number:	12489161
Application Number:	12489150
Application Number:	12489140
Application Number:	12489118
Application Number:	12487110
Application Number:	12473769
Application Number:	12472238
Application Number:	12469623
Application Number:	12468797
Application Number:	12468543
Application Number:	12468424
Application Number:	12468408
Application Number:	12467482
Application Number:	12466988
Application Number:	12436354
Application Number:	12434629
Application Number:	12432186
Application Number:	12429774
Application Number:	12426330
Application Number:	12425907
Application Number:	12414052
Application Number:	12409322
Application Number:	12409223
Application Number:	12409216
Application Number:	12406613
Application Number:	12399493
Application Number:	12398735
Application Number:	12390110
Application Number:	12381065
Application Number:	12370891
Application Number:	12370719
Application Number:	12366861
Application Number:	12366479
Application Number:	12366150
Application Number:	12360841
Application Number:	12360838

Property Type	Number
Application Number:	12360019
Application Number:	12360014
Application Number:	12359998
Application Number:	12359982
Application Number:	12359122
Application Number:	12359101
Application Number:	12351199
Application Number:	12342861
Application Number:	12342796
Application Number:	12341797
Application Number:	12336795
Application Number:	12325710
Application Number:	12323310
Application Number:	12323285
Application Number:	12323243
Application Number:	12323153
Application Number:	12277786
Application Number:	12277759
Application Number:	12277690
Application Number:	12277675
Application Number:	12277641
Application Number:	12272636
Application Number:	12270278
Application Number:	12267850
Application Number:	12267804
Application Number:	12267274
Application Number:	12265166
Application Number:	12254810
Application Number:	12254110
Application Number:	12253550
Application Number:	12252616
Application Number:	12250685
Application Number:	12239447
Application Number:	12236016
Application Number:	12228650
Application Number:	12210181
Application Number:	12210177
Application Number:	12210175

Property Type	Number
Application Number:	12210174
Application Number:	12174881
Application Number:	12163292
Application Number:	12147029
Application Number:	12147022
Application Number:	12140070
Application Number:	12128978
Application Number:	12108016
Application Number:	12068699
Application Number:	12032446
Application Number:	12032429
Application Number:	12031340
Application Number:	12020963
Application Number:	12020649
Application Number:	12014529
Application Number:	12002725
Application Number:	11982699
Application Number:	11982542
Application Number:	11982495
Application Number:	11957929
Application Number:	11941567
Application Number:	11941521
Application Number:	11905276
Application Number:	11879338
Application Number:	11875881
Application Number:	11875671
Application Number:	11875552
Application Number:	11875515
Application Number:	11875256
Application Number:	11873564
Application Number:	11851934
Application Number:	11833777
Application Number:	11833581
Application Number:	11833577
Application Number:	11832434
Application Number:	11767122
Application Number:	11734083
Application Number:	11693991

Property Type	Number
Application Number:	11685186
Application Number:	11685185
Application Number:	11685183
Application Number:	11685181
Application Number:	11685180
Application Number:	11685177
Application Number:	11685175
Application Number:	11685173
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Application Number:	11685171
Application Number:	11685170
Application Number:	11685168
Application Number:	11685167
Application Number:	11685165
Application Number:	11685164
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Application Number:	11685147
Application Number:	11685142
Application Number:	11685141
Application Number:	11685139
Application Number:	11685136
Application Number:	11685134
Application Number:	11685133
Application Number:	11685132
Application Number:	11685131
Application Number:	11685130
Application Number:	11684936
Application Number:	11684933
Application Number:	11627707
Application Number:	11624403
Application Number:	11624402
Application Number:	11624396

Property Type	Number
Application Number:	11624395
Application Number:	11624394
Application Number:	11613073
Application Number:	11566975
Application Number:	11565929
Application Number:	11565923
Application Number:	11563932
Application Number:	11563927
Application Number:	11559635
Application Number:	11557683
Application Number:	11555615
Application Number:	11555611
Application Number:	11554933
Application Number:	11552787
Application Number:	11539202
Application Number:	11532866
Application Number:	11525888
Application Number:	11525727
Application Number:	11525726
Application Number:	11516179
Application Number:	11506383
Application Number:	11487945
Application Number:	11466238
Application Number:	11466033
Application Number:	11466030
Application Number:	11466026
Application Number:	11466019
Application Number:	11466014
Application Number:	11465980
Application Number:	11465963
Application Number:	11465958
Application Number:	11465950
Application Number:	11465948
Application Number:	11465943
Application Number:	11465915
Application Number:	11465894
Application Number:	11462350
Application Number:	11462345

Property Type	Number
Application Number:	11462344
Application Number:	11462341
Application Number:	11462329
Application Number:	11462321
Application Number:	11462312
Application Number:	11462308
Application Number:	11462300
Application Number:	11462274
Application Number:	11462267
Application Number:	11462253
Application Number:	11462230
Application Number:	11462202
Application Number:	11462200
Application Number:	11462174
Application Number:	11439330
Application Number:	11439068
Application Number:	11439009
Application Number:	11439003
Application Number:	11428058
Application Number:	11380004
Application Number:	11370522
Application Number:	11365482
Application Number:	11365355
Application Number:	11324203
Application Number:	11324146
Application Number:	11324141
Application Number:	11324140
Application Number:	11324138
Application Number:	11324131
Application Number:	11323354
Application Number:	11323353
Application Number:	11323352
Application Number:	11323196
Application Number:	11321039
Application Number:	11316696
Application Number:	11316399
Application Number:	11316396
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Property Type	Number
Application Number:	11316367
Application Number:	11316364
Application Number:	11316214
Application Number:	11316202
Application Number:	11312816
Application Number:	11301825
Application Number:	11271077
Application Number:	11258611
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Application Number:	11246019
Application Number:	11243512
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Application Number:	11231317
Application Number:	11231315
Application Number:	11231284
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Application Number:	11188274
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Application Number:	11187512
Application Number:	11187508
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Application Number:	11161091
Application Number:	11161090
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Application Number:	11114943
Application Number:	11114913
Application Number:	11114905
Application Number:	11101797
Application Number:	11089844

Property Type	Number
Application Number:	11066992
Application Number:	11039946
Application Number:	11036489
Application Number:	11035851
Application Number:	11035834
Application Number:	11035511
Application Number:	11023649
Application Number:	11014532
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Application Number:	10956764
Application Number:	10956723
Application Number:	10949993
Application Number:	10931405
Application Number:	10908318
Application Number:	10906955
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Application Number:	10902493
Application Number:	10902491
Application Number:	10901952
Application Number:	10901940
Application Number:	10901691
Application Number:	10894714
Application Number:	10877362
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Application Number:	10857224
Application Number:	10826268
Application Number:	10815251
Application Number:	10815229
Application Number:	10782739
Application Number:	10782726
Application Number:	10782529
Application Number:	10711737
Application Number:	10711736
Application Number:	10711735

Property Type	Number
Application Number:	10711733
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Application Number:	10711729
Application Number:	10711719
Application Number:	10711699
Application Number:	10711647
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Application Number:	10689824
Application Number:	10683881
Application Number:	10683548
Application Number:	10626629
Application Number:	10626394
Application Number:	10583578
Application Number:	10507469
Application Number:	10448184
Application Number:	10424995
Application Number:	10423444
Application Number:	10314900
Application Number:	10259089
Application Number:	10125265
Application Number:	10124877
Application Number:	10104934
Application Number:	10104863
Application Number:	10098157
Application Number:	10083324
Application Number:	10053402
Application Number:	10016689
Application Number:	09985878
Application Number:	09970462
Application Number:	09970038
Application Number:	09970037
Application Number:	09921832

Property Type	Number
Application Number:	09921460
Application Number:	09921458
Application Number:	09912401
Application Number:	09894918
Application Number:	09891821
Application Number:	09880268
Application Number:	09867546
Application Number:	09866531
Application Number:	09866520
Application Number:	09866375
Application Number:	09846896
Application Number:	09767365
Application Number:	09740661
Application Number:	09706117
Application Number:	09704904
Application Number:	09704896
Application Number:	09690437
Application Number:	09654801
Application Number:	09642531
Application Number:	09617380
Application Number:	63203025
Application Number:	63189380
Application Number:	63178762
Application Number:	63154359
Application Number:	63149807
Application Number:	29724678
Application Number:	17732783
Application Number:	17730947
Application Number:	17728404
Application Number:	17725745
Application Number:	17722769
Application Number:	17720867
Application Number:	17719731
Application Number:	17713764
Application Number:	17713678
Application Number:	17708701
Application Number:	17707395
Application Number:	17705793

Property Type	Number
Application Number:	17701895
Application Number:	17699988
Application Number:	17695534
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Application Number:	17692685
Application Number:	17681035
Application Number:	17678679
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Application Number:	17649940
Application Number:	17649803
Application Number:	17648712
Application Number:	17648711
Application Number:	17647875
Application Number:	17646552
Application Number:	17646495
Application Number:	17643882
Application Number:	17643598
Application Number:	17643496
Application Number:	17643445
Application Number:	17643429
Application Number:	17643253
Application Number:	17614853
Application Number:	17589149
Application Number:	17572834
Application Number:	17572048
Application Number:	17570085
Application Number:	17569046
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Application Number:	17567256
Application Number:	17565980
Application Number:	17565939
Application Number:	17563672
Application Number:	17562634
Application Number:	17559400
Application Number:	17550111

Property Type	Number
Application Number:	17545609
Application Number:	17544185
Application Number:	17541923
Application Number:	17540883
Application Number:	17540516
Application Number:	17540509
Application Number:	17540488
Application Number:	17539644
Application Number:	17539455
Application Number:	17539443
Application Number:	17538432
Application Number:	17537601
Application Number:	17536587
Application Number:	17536525
Application Number:	17534603
Application Number:	17532534
Application Number:	17529369
Application Number:	17528998
Application Number:	17528769
Application Number:	17572237
Application Number:	17526552
Application Number:	17525049
Application Number:	17524821
Application Number:	17524811
Application Number:	17524171
Application Number:	17523181
Application Number:	17521495
Application Number:	17518161
Application Number:	17517969
Application Number:	17516868
Application Number:	17515288
Application Number:	17515684
Application Number:	17514683
Application Number:	17514294
Application Number:	17514051
Application Number:	17513527
Application Number:	17512735
Application Number:	17512343

Property Type	Number
Application Number:	17509844
Application Number:	17509720
Application Number:	17509421
Application Number:	17509313
Application Number:	17508326
Application Number:	17508225
Application Number:	17508212
Application Number:	17507685
Application Number:	17505921
Application Number:	17505089
Application Number:	17505065
Application Number:	17504971
Application Number:	17504686
Application Number:	17503955
Application Number:	17503852
Application Number:	17502131
Application Number:	17501579
Application Number:	17501500
Application Number:	17501476
Application Number:	17501420
Application Number:	17501417
Application Number:	17501165
Application Number:	17500454
Application Number:	17500409
Application Number:	17499073
Application Number:	17499015
Application Number:	17498192
Application Number:	17498039
Application Number:	17497294
Application Number:	17495868
Application Number:	17495054
Application Number:	17495030
Application Number:	17493410
Application Number:	17492297
Application Number:	17492240
Application Number:	17491573
Application Number:	17490796
Application Number:	17490397

Property Type	Number
Application Number:	17490380
Application Number:	17488663
Application Number:	17487524
Application Number:	17484195
Application Number:	17485695
Application Number:	17486146
Application Number:	17482936
Application Number:	17482899
Application Number:	17482053
Application Number:	17481878
Application Number:	17481809
Application Number:	17481746
Application Number:	17481736
Application Number:	17479923
Application Number:	17479291
Application Number:	17474169
Application Number:	17473184
Application Number:	17470631
Application Number:	17468018
Application Number:	17468204
Application Number:	17466793
Application Number:	17465275
Application Number:	17463989
Application Number:	17462163
Application Number:	17460565
Application Number:	17457992
Application Number:	17457530
Application Number:	17457474
Application Number:	17457072
Application Number:	17456961
Application Number:	17456213
Application Number:	17454491
Application Number:	17454102
Application Number:	17452638
Application Number:	17452623
Application Number:	17452461
Application Number:	17451713
Application Number:	17451712

Property Type	Number
Application Number:	17451709
Application Number:	17451503
Application Number:	17451359
Application Number:	17448911
Application Number:	17449034
Application Number:	17448558
Application Number:	17448536
Application Number:	17448531
Application Number:	17448383
Application Number:	17448432
Application Number:	17448369
Application Number:	17448219
Application Number:	17448218
Application Number:	17448084
Application Number:	17447838
Application Number:	17447713
Application Number:	17446840
Application Number:	17445512
Application Number:	17445409
Application Number:	17443201
Application Number:	17443028
Application Number:	17413351
Application Number:	17410013
Application Number:	17408200
Application Number:	17407861
Application Number:	17406394
Application Number:	17405655
Application Number:	17404093
Application Number:	17403558
Application Number:	17403552
Application Number:	17403356
Application Number:	17402971
Application Number:	17402125
Application Number:	17401768
Application Number:	17400661
Application Number:	17398626
Application Number:	17398162
Application Number:	17398094

Property Type	Number
Application Number:	17397419
Application Number:	17394719
Application Number:	17394557
Application Number:	17393042
Application Number:	17392410
Application Number:	17391391
Application Number:	17387484
Application Number:	17386777
Application Number:	17386753
Application Number:	17385124
Application Number:	17384049
Application Number:	17381331
Application Number:	17380795
Application Number:	17380434
Application Number:	17380326
Application Number:	17379771
Application Number:	17376512
Application Number:	17375410
Application Number:	17375160
Application Number:	17374683
Application Number:	17374206
Application Number:	17373694
Application Number:	17373107
Application Number:	17372703
Application Number:	17372061
Application Number:	17370478
Application Number:	17370225
Application Number:	17369295
Application Number:	17368429
Application Number:	17368426
Application Number:	17368109
Application Number:	17366220
Application Number:	17365721
Application Number:	17365527
Application Number:	17365162
Application Number:	17365147
Application Number:	17363928
Application Number:	17363631

Property Type	Number
Application Number:	17363351
Application Number:	17363338
Application Number:	17361415
Application Number:	17359793
Application Number:	17359720
Application Number:	17358887
Application Number:	17358765
Application Number:	17357623
Application Number:	17357583
Application Number:	17355857
Application Number:	17355297
Application Number:	17354983
Application Number:	17353152
Application Number:	17352421
Application Number:	17351888
Application Number:	17351715
Application Number:	17349990
Application Number:	17348688
Application Number:	17346955
Application Number:	17346437
Application Number:	17346404
Application Number:	17344467
Application Number:	17344160
Application Number:	17343445
Application Number:	17343438
Application Number:	17343115
Application Number:	17343110
Application Number:	17343106
Application Number:	17342999
Application Number:	17342716
Application Number:	17340565
Application Number:	17340494
Application Number:	17340188
Application Number:	17340170
Application Number:	17339419
Application Number:	17337565
Application Number:	17336976
Application Number:	17336751

Property Type	Number
Application Number:	17335424
Application Number:	17335356
Application Number:	17331993
Application Number:	17331889
Application Number:	17331105
Application Number:	17330774
Application Number:	17330773
Application Number:	17329761
Application Number:	17329580
Application Number:	17327882
Application Number:	17324687
Application Number:	17323678
Application Number:	17323569
Application Number:	17323559
Application Number:	17322501
Application Number:	17321847
Application Number:	17320506
Application Number:	17320492
Application Number:	17319610
Application Number:	17319326
Application Number:	17318013
Application Number:	17317538
Application Number:	17316821
Application Number:	17316227
Application Number:	17315799
Application Number:	17315644
Application Number:	17315642
Application Number:	17314841
Application Number:	17314472
Application Number:	17308620
Application Number:	17307713
Application Number:	17307634
Application Number:	17306578
Application Number:	17304660
Application Number:	17304563
Application Number:	17304481
Application Number:	17246217
Application Number:	17245857

Property Type	Number
Application Number:	17245546
Application Number:	17245152
Application Number:	17243110
Application Number:	17241560
Application Number:	17240418
Application Number:	17239811
Application Number:	17239748
Application Number:	17238410
Application Number:	17238340
Application Number:	17237320
Application Number:	17237159
Application Number:	17236233
Application Number:	17236122
Application Number:	17236075
Application Number:	17234941
Application Number:	17233814
Application Number:	17233181
Application Number:	17232550
Application Number:	17232494
Application Number:	17231823
Application Number:	17231618
Application Number:	17231599
Application Number:	17231331
Application Number:	17230442
Application Number:	17230334
Application Number:	17230255
Application Number:	17229843
Application Number:	17228997
Application Number:	17226337
Application Number:	17224868
Application Number:	17223569
Application Number:	17222027
Application Number:	17221289
Application Number:	17220631
Application Number:	17220618
Application Number:	17219972
Application Number:	17217021
Application Number:	17215892

Property Type	Number
Application Number:	17215613
Application Number:	17215426
Application Number:	17215358
Application Number:	17215113
Application Number:	17215098
Application Number:	17213578
Application Number:	17210065
Application Number:	17209582
Application Number:	17209580
Application Number:	17207940
Application Number:	17206396
Application Number:	17206222
Application Number:	17205241
Application Number:	17204614
Application Number:	17204099
Application Number:	17203161
Application Number:	17200006
Application Number:	17199639
Application Number:	17199523
Application Number:	17199126
Application Number:	17192572
Application Number:	17190820
Application Number:	17189675
Application Number:	17188601
Application Number:	17188307
Application Number:	17188167
Application Number:	17184969
Application Number:	17183882
Application Number:	17182575
Application Number:	17182541
Application Number:	17182501
Application Number:	17181811
Application Number:	17180108
Application Number:	17179558
Application Number:	17176032
Application Number:	17176031
Application Number:	17176011
Application Number:	17173492

Property Type	Number
Application Number:	17172454
Application Number:	17171605
Application Number:	17171243
Application Number:	17170271
Application Number:	17170175
Application Number:	17170146
Application Number:	17170136
Application Number:	17164146
Application Number:	17163991
Application Number:	17161936
Application Number:	17161292
Application Number:	17160580
Application Number:	17160567
Application Number:	17159789
Application Number:	17157640
Application Number:	17156783
Application Number:	17155694
Application Number:	17155678
Application Number:	17155404
Application Number:	17155302
Application Number:	17150158
Application Number:	17149047
Application Number:	17148105
Application Number:	17147791
Application Number:	17147140
Application Number:	17145622
Application Number:	17144862
Application Number:	17142743
Application Number:	17141633
Application Number:	17141602
Application Number:	17141299
Application Number:	17138232
Application Number:	17138162
Application Number:	17138030
Application Number:	17137845
Application Number:	17137315
Application Number:	17137292
Application Number:	17136705

Property Type	Number
Application Number:	17136518
Application Number:	17135456
Application Number:	17135391
Application Number:	17134841
Application Number:	17132741
Application Number:	17127975
Application Number:	17127393
Application Number:	17126867
Application Number:	17125266
Application Number:	17125251
Application Number:	17123262
Application Number:	17122164
Application Number:	17121847
Application Number:	17120543
Application Number:	17120412
Application Number:	17117290
Application Number:	17116804
Application Number:	17115176
Application Number:	17113874
Application Number:	17113720
Application Number:	17110932
Application Number:	17110503
Application Number:	17109904
Application Number:	17102565
Application Number:	17101637
Application Number:	17101223
Application Number:	17099992
Application Number:	17099924
Application Number:	17099204
Application Number:	17098566
Application Number:	17097255
Application Number:	17092488
Application Number:	17091678
Application Number:	17091311
Application Number:	17088708
Application Number:	17087304
Application Number:	17085743
Application Number:	17084996

Property Type	Number
Application Number:	17083509
Application Number:	17083416
Application Number:	17081406
Application Number:	17079717
Application Number:	17076977
Application Number:	17076321
Application Number:	17076254
Application Number:	17075837
Application Number:	17075249
Application Number:	17075228
Application Number:	17073868
Application Number:	17071075
Application Number:	17070602
Application Number:	17069215
Application Number:	17066757
Application Number:	17064712
Application Number:	17063387
Application Number:	17063230
Application Number:	17063198
Application Number:	17061901
Application Number:	17060407
Application Number:	17062130
Application Number:	17039258
Application Number:	17036338
Application Number:	17032001
Application Number:	17031986
Application Number:	17030633
Application Number:	17029400
Application Number:	17029366
Application Number:	17029240
Application Number:	17025199
Application Number:	17024921
Application Number:	17023772
Application Number:	17023582
Application Number:	17021266
Application Number:	17020673
Application Number:	17020265
Application Number:	17016985

Property Type	Number
Application Number:	17015567
Application Number:	17012207
Application Number:	17008739
Application Number:	17007199
Application Number:	17005405
Application Number:	17003704
Application Number:	17003427
Application Number:	16999554
Application Number:	16999349
Application Number:	16998467
Application Number:	16996551
Application Number:	16995929
Application Number:	16994979
Application Number:	16992948
Application Number:	16992660
Application Number:	16992584
Application Number:	16992393
Application Number:	16990508
Application Number:	16987696
Application Number:	16987672
Application Number:	16985505
Application Number:	16984575
Application Number:	16984422
Application Number:	16953553
Application Number:	16952686
Application Number:	16951086
Application Number:	16950247
Application Number:	16950027
Application Number:	16944767
Application Number:	16943745
Application Number:	16943188
Application Number:	16942142
Application Number:	16942098
Application Number:	16941664
Application Number:	16941226
Application Number:	16941001
Application Number:	16940487
Application Number:	16939951

Property Type	Number
Application Number:	16938229
Application Number:	16938162
Application Number:	16937913
Application Number:	16937185
Application Number:	16934418
Application Number:	16934058
Application Number:	16933805
Application Number:	16933501
Application Number:	16930955
Application Number:	16930741
Application Number:	16929910
Application Number:	16929846
Application Number:	16929339
Application Number:	16929285
Application Number:	16927075
Application Number:	16923632
Application Number:	16922483
Application Number:	16920977
Application Number:	16919572
Application Number:	16918758
Application Number:	16918679
Application Number:	16918045
Application Number:	16918022
Application Number:	16916795
Application Number:	16915184
Application Number:	16915178
Application Number:	16913356
Application Number:	16913281
Application Number:	16911765
Application Number:	16911519
Application Number:	16911103
Application Number:	16910615
Application Number:	16909401
Application Number:	16906783
Application Number:	16906119
Application Number:	16902867
Application Number:	16900229
Application Number:	16899098

Property Type	Number
Application Number:	16898822
Application Number:	16897599
Application Number:	16896400
Application Number:	16895467
Application Number:	16895396
Application Number:	16895321
Application Number:	16894012
Application Number:	16892565
Application Number:	16892539
Application Number:	16890661
Application Number:	16889116
Application Number:	16887884
Application Number:	16887853
Application Number:	16887492
Application Number:	16887158
Application Number:	16887152
Application Number:	16887054
Application Number:	16885430
Application Number:	16884761
Application Number:	16884667
Application Number:	16884355
Application Number:	16882856
Application Number:	16882851
Application Number:	16881703
Application Number:	16880006
Application Number:	16879246
Application Number:	16878840
Application Number:	16878172
Application Number:	16877971
Application Number:	16876998
Application Number:	16876632
Application Number:	16876289
Application Number:	16875117
Application Number:	16872797
Application Number:	16871728
Application Number:	16871192
Application Number:	16870056
Application Number:	16862719

Property Type	Number
Application Number:	16862686
Application Number:	16861447
Application Number:	16861445
Application Number:	16860420
Application Number:	16857987
Application Number:	16857390
Application Number:	16856430
Application Number:	16855100
Application Number:	16854120
Application Number:	16851373
Application Number:	16850697
Application Number:	16850572
Application Number:	16850272
Application Number:	16848675
Application Number:	16847780
Application Number:	16845669
Application Number:	16845201
Application Number:	16842317
Application Number:	16842042
Application Number:	16839231
Application Number:	16835928
Application Number:	16834763
Application Number:	16834757
Application Number:	16834674
Application Number:	16834124
Application Number:	16832274
Application Number:	16829565
Application Number:	16829426
Application Number:	16825037
Application Number:	16822900
Application Number:	16820027
Application Number:	16818906
Application Number:	16816832
Application Number:	16809857
Application Number:	16808731
Application Number:	16808549
Application Number:	16806092
Application Number:	16799108

Property Type	Number
Application Number:	16798725
Application Number:	16794372
Application Number:	16793433
Application Number:	16792527
Application Number:	16790980
Application Number:	16790125
Application Number:	16786032
Application Number:	16782470
Application Number:	16780445
Application Number:	16778465
Application Number:	16776022
Application Number:	16774448
Application Number:	16774262
Application Number:	16773019
Application Number:	16752993
Application Number:	16750727
Application Number:	16750613
Application Number:	16749113
Application Number:	16748880
Application Number:	16745218
Application Number:	16744465
Application Number:	16744164
Application Number:	16743060
Application Number:	16742537
Application Number:	16742250
Application Number:	16739342
Application Number:	16738321
Application Number:	16736204
Application Number:	16734783
Application Number:	16734667
Application Number:	16733962
Application Number:	16733654
Application Number:	16733420
Application Number:	16733324
Application Number:	16731386
Application Number:	16730352
Application Number:	16730304
Application Number:	16725295

Property Type	Number
Application Number:	16724566
Application Number:	16722575
Application Number:	16719105
Application Number:	16717009
Application Number:	16716761
Application Number:	16716669
Application Number:	16716040
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Application Number:	14585320
Application Number:	14324646
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Application Number:	14055038

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NAME OF SUBMITTER:	SUSAN ZABLOCKI
SIGNATURE:	/susan zablocki/
DATE SIGNED:	09/30/2022

Total Attachments: 341

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PATENT SECURITY AGREEMENT

This Patent Security Agreement, dated as of September 30, 2022 (this "**Patent Security Agreement**"), is made by each signatory hereto listed under "Pledgors" (each a "**Pledgor**" and collectively, the "**Pledgors**"), in favor of Wilmington Trust, National Association, in its capacity as collateral agent for the Secured Parties (in such capacity, together with its successors and permitted assigns, the "**Notes Collateral Agent**") pursuant to that certain Indenture, dated as of November 15, 2017 (the "Base Indenture"), by and between Citrix Systems, Inc., a Delaware corporation (the "Issuer"), and Wilmington Trust, National Association, as trustee (the "Trustee"), as supplemented by the First Supplemental Indenture, dated as of November 15, 2017 (the "First Supplemental Indenture"), by and between the Company and the Trustee, and the Fourth Supplemental Indenture, dated as of September 30, 2022, by and among the Issuer, each Guarantor from time to time party thereto, the Trustee and the Notes Collateral Agent (the "Fourth Supplemental Indenture" and, together with the Base Indenture and the First Supplemental Indenture, and as further amended, restated, amended and restated, supplemented, extended, waived, renewed, replaced, refinanced or otherwise modified from time to time, the "**Indenture**").

W I T N E S S E T H:

WHEREAS, the Pledgors are party to a Notes Collateral Agreement of even date with the Indenture (as amended, restated, amended and restated, supplemented, waived, renewed, replaced or otherwise modified from time to time, the "**Security Agreement**") in favor of the Notes Collateral Agent pursuant to which the Pledgors are required to execute and deliver this Patent Security Agreement.

NOW, THEREFORE, in consideration of the premises and to induce the Notes Collateral Agent, for the benefit of the Secured Parties, to enter into the Indenture, each Pledgor hereby agrees with the Notes Collateral Agent as follows:

SECTION 1. Defined Terms. Unless otherwise defined herein, terms defined in the Security Agreement and used herein have the meaning given to them in the Security Agreement, or if not defined therein, in the Indenture.

SECTION 2. Grant of Security Interest in Patent Collateral. As security for the payment or performance, as the case may be, in full of the Secured Obligations, each Pledgor hereby pledges and grants to the Notes Collateral Agent for the benefit of the Secured Parties a Lien on and security interest in all of the right, title and interest of such Pledgor in, to and under all the following to the extent constituting Pledged Collateral, and in each case excluding Excluded Property (collectively, the "**Patent Collateral**"):

(a) all United States issued patents and patent applications listed on Schedule 1 attached hereto; and

(b) all Proceeds of any and all of the foregoing.

SECTION 3. Security Agreement. The security interest granted pursuant to this Patent Security Agreement is granted in conjunction with the security interest granted to the Notes Collateral Agent pursuant to the Security Agreement, and the Pledgors hereby

acknowledge and affirm that the rights and remedies of the Notes Collateral Agent with respect to the security interest in the Patent Collateral made and granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. In the event that any provision of this Patent Security Agreement is deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall control.

SECTION 4. Recordation. Each Pledgor authorizes and requests that the Commissioner for Patents and any other applicable government officer record this Patent Security Agreement.

SECTION 5. Termination. This Patent Security Agreement shall terminate and the Lien on and security interest in the Patent Collateral shall be released upon the Payment in Full of the Secured Obligations. Upon the termination of this Patent Security Agreement, the Notes Collateral Agent shall execute all documents, make all filings, take all other actions reasonably requested by the Pledgors to evidence and record the release of the Lien on and security interests in the Patent Collateral granted herein.

SECTION 6. Counterparts. This Patent Security Agreement may be executed in any number of counterparts, all of which shall constitute one and the same instrument, and any party hereto may execute this Patent Security Agreement by signing and delivering one or more counterparts. Delivery of an executed counterpart of this Patent Security Agreement by facsimile or other electronic means shall be effective as delivery of a manually executed counterpart of this Patent Security Agreement.

SECTION 7. Governing Law. This Patent Security Agreement shall be construed in accordance with and governed by the law of the State of New York. The terms of Section 10.10 of the Base Indenture, Section 6.03 of the First Supplemental Indenture and Section 12 of the Fourth Supplemental Indenture are incorporated herein *mutatis mutandis*.

SECTION 8. Concerning the Notes Collateral Agent. Wilmington Trust, National Association is entering into this Patent Security Agreement solely in its capacity as Notes Collateral Agent under the Indenture and not in its individual or corporate capacity. In acting hereunder, the Notes Collateral Agent shall be entitled to all of the rights, privileges, indemnities and immunities set forth in the Indenture as if such rights, privileges, indemnities and immunities were set forth herein.

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IN WITNESS WHEREOF, each Pledgor has caused this Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

PLEDGORS:

CITRIX SYSTEMS, INC.,
a Delaware corporation

By: _____
Name: Thomas P. Berquist
Title: Treasurer

[Signature Page to Patent Security Agreement (Citrix Notes)]

Accepted and Agreed:

WILMINGTON TRUST, NATIONAL ASSOCIATION,
not in its individual capacity, but solely as Notes Collateral Agent

By: _____
Name: Karen Ferry
Title: Vice President

SCHEDULE 1
to
PATENT SECURITY AGREEMENT

UNITED STATES ISSUED PATENTS AND PATENT APPLICATIONS

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DISPLAY SCREEN OR PORTION THEREOF WITH ANIMATED GRAPHICAL USER INTERFACE	29/732080	D931898	4/21/2020	9/28/2021	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN OR PORTION THEREOF WITH ANIMATED GRAPHICAL USER INTERFACE	29/724686	D916909	2/18/2020	4/20/2021	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN OR PORTION THEREOF WITH ICON	29/724682	D916908	2/18/2020	4/20/2021	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN OR PORTION THEREOF WITH GRAPHICAL USER INTERFACE	29/724675	D931900	2/18/2020	9/28/2021	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN OR PORTION THEREOF WITH ANIMATED GRAPHICAL USER INTERFACE	29/713667	D914746	11/18/2019	3/30/2021	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN OR PORTION THEREOF WITH ANIMATED GRAPHICAL USER INTERFACE	29/713656	D914054	11/18/2019	3/23/2021	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DISPLAY SCREEN OR PORTION THEREOF WITH ANIMATED GRAPHICAL USER INTERFACE	29/713647	D914745	11/18/2019	3/30/2021	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN OR PORTION THEREOF WITH ICON	29/713643	D923049	11/18/2019	6/22/2021	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN WITH TRANSITIONAL GRAPHICAL USER INTERFACE	29/713641	D924265	11/18/2019	7/6/2021	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN OR PORTION THEREOF WITH GRAPHICAL USER INTERFACE	29/678587	D898765	1/30/2019	10/13/2020	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN OR PORTION THEREOF WITH GRAPHICAL USER INTERFACE	29/678586	D898764	1/30/2019	10/13/2020	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN OR PORTION THEREOF WITH TRANSITIONAL GRAPHICAL USER INTERFACE	29/678459	D915419	1/29/2019	4/6/2021	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN OR PORTION THEREOF WITH GRAPHICAL USER INTERFACE	29/678453	D907652	1/29/2019	1/12/2021	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN OR PORTION THEREOF WITH TRANSITIONAL GRAPHICAL USER INTERFACE	29/678450	D888732	1/29/2019	6/30/2020	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0093

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DISPLAY SCREEN OR PORTION THEREOF WITH GRAPHICAL USER INTERFACE	29/678448	D886129	1/29/2019	6/2/2020	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN OR PORTION THEREOF WITH TRANSITIONAL GRAPHICAL USER INTERFACE	29/678445	D888731	1/29/2019	6/30/2020	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN OR PORTION THEREOF WITH GRAPHICAL USER INTERFACE	29/678441	D888730	1/29/2019	6/30/2020	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN OR PORTION THEREOF WITH ICON GROUP	29/635339	D845344	1/30/2018	4/9/2019	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN OR PORTION THEREOF WITH GRAPHICAL USER INTERFACE	29/635330	D854583	1/30/2018	7/23/2019	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN OR PORTION THEREOF WITH GRAPHICAL USER INTERFACE	29/635320	D854566	1/30/2018	7/23/2019	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN OR PORTION THEREOF WITH GRAPHICAL USER INTERFACE	29/635318	D854565	1/30/2018	7/23/2019	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN OR PORTION THEREOF WITH TRANSITIONAL GRAPHICAL USER INTERFACE	29/635311	D866569	1/30/2018	11/12/2019	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0094

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DISPLAY SCREEN OR PORTION THEREOF WITH TRANSITIONAL GRAPHICAL USER INTERFACE	29/629083	D856367	12/11/2017	8/13/2019	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN OR PORTION THEREOF WITH GRAPHICAL USER INTERFACE	29/629081	D851112	12/11/2017	6/11/2019	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN OR PORTION THEREOF WITH TRANSITIONAL GRAPHICAL USER INTERFACE	29/629069	D841047	12/11/2017	2/19/2019	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN WITH ANIMATED GRAPHICAL USER INTERFACE	29/436505	D724612	11/6/2012	3/17/2015	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN WITH GRAPHICAL USER INTERFACE	29/436495	D723052	11/6/2012	2/24/2015	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN WITH ICON	29/435302	D722326	10/23/2012	2/10/2015	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN WITH ANIMATED GRAPHICAL USER INTERFACE	29/435300	D722325	10/23/2012	2/10/2015	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN WITH MULTISTATE GRAPHICAL USER INTERFACE	29/434160	D724100	10/10/2012	3/10/2015	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN WITH ANIMATED USER INTERFACE	29/434155	D724603	10/10/2012	3/17/2015	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN WITH ANIMATED GRAPHICAL USER INTERFACE	29/409493	D701238	12/23/2011	3/18/2014	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DISPLAY SCREEN WITH GRAPHICAL USER INTERFACE	29/409491	D714814	12/23/2011	10/7/2014	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN WITH MULTISTATE GRAPHICAL USER INTERFACE	29/409490	D700206	12/23/2011	2/25/2014	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN WITH GRAPHICAL USER INTERFACE	29/409488	D705789	12/23/2011	5/27/2014	Granted	CITRIX SYSTEMS, INC.
DISPLAY SCREEN WITH ICON	29/390623	D699263	4/27/2011	2/11/2014	Granted	CITRIX SYSTEMS, INC.
PREVENTING PHISHING ATTEMPTS OF ONE-TIME PASSWORDS	17/501582	11356481	10/14/2021	6/7/2022	Granted	CITRIX SYSTEMS, INC.
IMAGE STEGANOGRAPHY DETECTION	17/351441	11361075	6/18/2021	6/14/2022	Granted	CITRIX SYSTEMS, INC.
STATIC PERFORMANCE ANALYSIS SERVICE	17/349038	11269604	6/16/2021	3/8/2022	Granted	CITRIX SYSTEMS, INC.
NETWORK ENVIRONMENT-BASED DYNAMIC APPLICATION RECOMMENDATION	17/224422	11374840	4/7/2021	6/28/2022	Granted	CITRIX SYSTEMS, INC.
CONTEXT-BASED GENERATION OF ACTIVITY FEED NOTIFICATIONS	17/217022	11314563	3/30/2021	4//26/2022	Granted	CITRIX SYSTEMS, INC.
COMPUTING DEVICE WITH NEW WINDOW CREATION COMMAND AND RELATED SYSTEMS AND METHODS	17/209541	11301109	3/23/2021	4/12/2022	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
PROTECTING SENSITIVE DATA USING CONVERSATIONAL HISTORY	17/179570	11323400	2/19/2021	5/3/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING RELEASES OF APPLICATIONS IN A COMPUTING ENVIRONMENT	17/171476	11334343	2/9/2021	5/17/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SCREEN BRIGHTNESS CONTROL AND AUTO-LOCK BASED ON EYE DETECTION	17/163986	11144120	2/1/2021	19/12/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR VIDEO CONFERENCE WITH NESTED SESSIONS	17/156398	11258836	1/22/2021	2/22/2022	Granted	CITRIX SYSTEMS, INC.
INTELLIGENT FILE ACCESS SYSTEM	17/140543	11405457	1/4/2021	8/2/2022	Granted	CITRIX SYSTEMS, INC.
INTELLIGENT EVENT TRACKING SYSTEM	17/140406	11157882	1/4/2021	10/26/2021	Granted	CITRIX SYSTEMS, INC.
AUTHENTICATION USING DEVICE AND USER IDENTITY	17/132172	11171964	12/23/2020	11/9/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR OPERATION OF APPLICATION DELIVERY CONTROLLERS	17/117638	11349812	12/10/2020	5/31/2022	Granted	CITRIX SYSTEMS, INC.
UNIFIED INTELLIGENT EDITOR TO CONSOLIDATE ACTIONS IN A WORKSPACE	17/114609	11048531	12/8/2020	6/29/2021	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR AUTONOMOUS PROGRAM DETECTION	17/102869	11343357	11/24/2020	5/4/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PERFORMING HEADER PROTECTION IN DISTRIBUTED SYSTEMS	17/082916	11381517	10/28/2020	7/5/2022	Granted	CITRIX SYSTEMS, INC.
PRIVACY PROTECTION DURING VIDEO CONFERENCING SCREEN SHARE	17/073773	11165755	10/19/2020	11/2/2021	Granted	CITRIX SYSTEMS, INC.
DATA FILE REPLICATION TO EDGE SERVERS	17/072189	11316919	10/16/2020	4/26/2022	Granted	CITRIX SYSTEMS, INC.
BOOTSTRAPPED RELEVANCE SCORING SYSTEM	17/034752	11372867	9/28/2020	6/28/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR GRAPHICAL VISUALIZATION OF WEB APPLICATION VULNERABILITIES	17/034636	11411982	9/28/2020	8/9/2022	Granted	CITRIX SYSTEMS, INC.
IDENTITY LEAK PREVENTION	17/034118	11082374	9/28/2020	8/3/2021	Granted	CITRIX SYSTEMS, INC.
CONTEXT-BASED NOTIFICATION PROCESSING SYSTEM	17/022570	11360830	9/16/2020	6/14/2022	Granted	CITRIX SYSTEMS, INC.
NETWORK SENSITIVE FILE TRANSFER	17/014167	11201909	9/8/2020	12/14/2021	Granted	CITRIX SYSTEMS, INC.
FRAMEWORK FOR UI AUTOMATION BASED ON GRAPH RECOGNITION	17/005556	11169908	8/28/2020	11/9/2021	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
TECHNOLOGY AND RELATED METHODS						
METHOD FOR COMPUTING ENVIRONMENT SPECIFIC BASELINES FOR METRICS OF USER EXPERIENCE	17/004945	20220021593	8/27/2020	---	Allowed	CITRIX SYSTEMS, INC.
DETERMINING CHANGES IN A PERFORMANCE OF A SERVER	17/002353	11394631	8/25/2020	7/19/2022	Granted	CITRIX SYSTEMS, INC.
DETERMINING SERVER UTILIZATION USING UPPER BOUND VALUES	17/002048	11303550	8/25/2020	4/12/2022	Granted	CITRIX SYSTEMS, INC.
AUTO TERMINATION OF APPLICATIONS BASED ON APPLICATION AND USER ACTIVITY	16/989000	11163618	8/10/2020	11/2/2021	Granted	CITRIX SYSTEMS, INC.
SHARING RESOURCES BETWEEN CLIENT DEVICES IN A VIRTUAL WORKSPACE ENVIRONMENT	16/942037	11212237	7/29/2020	12/28/2021	Granted	CITRIX SYSTEMS, INC.
DIRECT LINKING WITHIN APPLICATIONS	16/940482	11157151	7/28/2020	10/26/2021	Granted	CITRIX SYSTEMS, INC.
CROSS DEVICE SINGLE SIGN-ON	16/935453	11159512	7/22/2020	10/26/2021	Granted	CITRIX SYSTEMS, INC.
INFERRING RADIO TYPE FROM CLUSTERING ALGORITHMS	16/933640	11171838	7/20/2020	11/9/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROCESSING SOFTWARE APPLICATION NOTIFICATIONS	16/919451	11347574	7/2/2020	5/31/2022	Granted	CITRIX SYSTEMS, INC.

PATENT
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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
PROVISION OF REMOTE APPLICATION ACTION FEED CARDS	16/918111	11244255	7/1/2020	2/8/2022	Granted	CITRIX SYSTEMS, INC.
SYNCHRONIZATION OF DATA BETWEEN LOCAL AND REMOTE COMPUTING ENVIRONMENT BUFFERS	16/906160	11057464	6/19/2020	7/6/2021	Granted	CITRIX SYSTEMS, INC.
METHOD FOR MANAGING SESSIONS USING WEB SOCKETS	16/901347	11044322	6/15/2020	6/22/2021	Granted	CITRIX SYSTEMS, INC.
EMAIL PLATFORM WITH AUTOMATED CONTACT SAVE	16/893523	11146521	6/5/2020	10/12/2021	Granted	CITRIX SYSTEMS, INC.
WEBRTC API REDIRECTION WITH WINDOW MONITORING/OVERLAY DETECTION	16/889046	11005931	6/1/2020	5/11/2021	Granted	CITRIX SYSTEMS, INC.
MANAGING BROWSER SESSION NAVIGATION BETWEEN ONE OR MORE BROWSERS	16/885692	11297145	5/28/2020	4/5/2022	Granted	CITRIX SYSTEMS, INC.
RENDERING A WEB APPLICATION IN A CLOUD SERVICE	16/878251	11108845	5/19/2020	8/31/2021	Granted	CITRIX SYSTEMS, INC.
REAL-TIME HISTORY-BASED BYTE STREAM COMPRESSION	16/867859	11025272	5/6/2020	6/1/2021	Granted	CITRIX SYSTEMS, INC.
MICROAPP FUNCTIONALITY RECOMMENDATIONS WITH CROSS-APPLICATION ACTIVITY CORRELATION	16/862781	11132179	4/30/2020	9/28/2021	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
IMAGE ACQUISITION DEVICE VIRTUALIZATION FOR REMOTE COMPUTING	16/862078	11165888	4/29/2020	11/2/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR EMBEDDING DATA IN REMOTE SESSION DISPLAYS	16/860755	11270007	4/28/2020	3/8/2022	Granted	CITRIX SYSTEMS, INC.
SELECTING A VERSION OF AN APPLICATION	16/859614	11061667	4/27/2020	7/13/2021	Granted	CITRIX SYSTEMS, INC.
MULTIFACTOR CONTEXTUAL AUTHENTICATION AND ENTROPY FROM DEVICE OR DEVICE INPUT OR GESTURE AUTHENTICATION	16/857750	11297055	4/24/2020	4/5/2022	Granted	CITRIX SYSTEMS, INC.
TRIGGERING EVENT NOTIFICATIONS BASED ON MESSAGES TO APPLICATION USERS	16/857571	11012400	4/24/2020	5/18/2021	Granted	CITRIX SYSTEMS, INC.
MESSAGE QUEUE MIGRATION ON A/B RELEASE ENVIRONMENTS	16/857451	11165645B2	4/24/2020	11/2/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CONTROLLING ACCESS TO A COMPUTING DEVICE	16/854221	10972601	4/21/2020	4/6/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SIMPLIFIED RECORDING AND SHARING OF DATA	16/846658	11184424	4/13/2020	11/23/2021	Granted	CITRIX SYSTEMS, INC.
AUTOMATIC HYPERLINKING FOR CONTENT SERVICES	16/841846	11144612	4/7/2020	10/12/2021	Granted	CITRIX SYSTEMS, INC.

PATENT
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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SHORT MESSAGE SERVICE LINK FOR ACTIVITY FEED COMMUNICATIONS	16/837093	10986473	4/1/2020	4/20/2021	Granted	CITRIX SYSTEMS, INC.
CONTENT RESOLUTION ADJUSTMENT FOR PASSIVE DISPLAY DEVICES	16/815483	11069325	3/11/2020	7/20/2021	Granted	CITRIX SYSTEMS, INC.
LOADER APPLICATION WITH SECONDARY EMBEDDED APPLICATION OBJECT	16/815273	11023257	3/11/2020	6/1/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD TO OPTIMIZE WORKFLOW	16/809239	11095567	3/4/2020	8/17/2021	Granted	CITRIX SYSTEMS, INC.
VIRTUAL WORKSPACE EXPERIENCE VISUALIZATION AND OPTIMIZATION	16/793373	10924590	2/18/2020	2/16/2021	Granted	CITRIX SYSTEMS, INC.
NON-DISRUPTIVE ENABLEMENT OF HIGHLY AVAILABLE CLOUD COMPUTING SERVICES	16/792381	10965741	2/17/2020	3/30/2021	Granted	CITRIX SYSTEMS, INC.
TECHNOLOGY AGNOSTIC UI MICROSERVICES	16/785096	11170065	2/7/2020	11/9/2021	Granted	CITRIX SYSTEMS, INC.
CLOUD SERVICE AUTOMATION OF COMMON IMAGE MANAGEMENT	16/776806	10860309	1/30/2020	12/8/2020	Granted	CITRIX SYSTEMS, INC.
SECURE MESSAGE PASSING USING SEMI-TRUSTED INTERMEDIARIES	16/775901	11159497	1/29/2020	10/26/2021	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0102

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR SECURED WEB APPLICATION DATA TRAFFIC	16/774676	11063750	1/28/2020	7/13/2021	Granted	CITRIX SYSTEMS, INC.
REDIRECTION OF WEB CONTENT	16/751493	10871873	1/24/2020	12/22/2020	Granted	CITRIX SYSTEMS, INC.
VIRTUAL COMPUTING SYSTEM PROVIDING LOCAL SCREEN SHARING FROM HOSTED COLLABORATION APPLICATIONS AND RELATED METHODS	16/751417	11190561	1/24/2020	11/30/2021	Granted	CITRIX SYSTEMS, INC.
METHOD TO DETERMINE OPTIMAL NUMBER OF HTTP2.0 STREAMS AND CONNECTIONS FOR BETTER QOE	16/747690	11025699	1/21/2020	6/1/2021	Granted	CITRIX SYSTEMS, INC.
TWO-PART CONTEXT BASED RENDERING SOLUTION FOR HIGH FIDELITY AUGMENTED REALITY IN VIRTUALIZED ENVIRONMENT	16/739942	10937224	1/10/2020	3/2/2021	Granted	CITRIX SYSTEMS, INC.
OPTIMIZING WEB APPLICATIONS USING A RENDERING ENGINE	16/737112	11070641	1/8/2020	7/20/2021	Granted	CITRIX SYSTEMS, INC.
RESTRICTIONS ON VIRTUALIZED SESSIONS USING RISK FACTOR ASSESSMENT	16/732444	11176266	1/2/2020	11/16/2021	Granted	CITRIX SYSTEMS, INC.
EXTENDING MANAGEMENT CONTROL TO IOT DEVICES	16/730184	11178185	12/30/2019	11/16/2021	Granted	CITRIX SYSTEMS, INC.
GRAPHICAL USER INTERFACE FOR EMAIL FILE CONTENT	16/724588	11121998	12/23/2019	9/14/2021	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0103

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
INTELLIGENT CONTEXTUAL GROUPING OF NOTIFICATIONS IN AN ACTIVITY FEED	16/718285	11175967	12/18/2019	11/16/2021	Granted	CITRIX SYSTEMS, INC.
DEVICE INDEPENDENT TEXT SUGGESTION SERVICE FOR AN APPLICATION HOSTING PLATFORM	16/710762	11042704	12/11/2019	6/22/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR CANARY DEPLOYMENT USING DNS SRV RECORDS	16/703927	11140073	12/5/2019	10/5/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR FIRST PACKET APPLICATION CLASSIFICATION	16/695972	11095562	11/26/2019	8/17/2021	Granted	CITRIX SYSTEMS, INC.
MULTI-PIXEL CACHING SCHEME FOR LOSSLESS ENCODING	16/687014	11190787	11/18/2019	11/30/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SCREEN BRIGHTNESS CONTROL AND AUTO-LOCK BASED ON EYE DETECTION	16/686832	11009947	11/18/2019	5/18/2021	Granted	CITRIX SYSTEMS, INC.
METHOD AND APPARATUS FOR DETERRENCE AND DETECTION OF LEAKAGE DURING REMOTE INTERACTIVE SESSIONS	16/684722	11010856	11/15/2019	5/18/2021	Granted	CITRIX SYSTEMS, INC.
HEURISTICS FOR SELECTING NEAREST ZONE BASED ON ICA RTT AND NETWORK LATENCY	16/678923	11089091	11/8/2019	8/10/2021	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
LEVERAGING MULTI-STREAM TRANSPORT PROTOCOL CAPABILITIES FOR ROUTING	16/666021	10951515	10/28/2019	3/16/2021	Granted	CITRIX SYSTEMS, INC.
MASKED WATERMARKS AND RELATED SYSTEMS AND TECHNIQUES	16/663971	11157599	10/25/2019	10/26/2021	Granted	CITRIX SYSTEMS, INC.
FILE TRANSFER CONTROL SYSTEMS AND METHODS	16/658298	11044300	10/21/2019	6/22/2021	Granted	CITRIX SYSTEMS, INC.
PROVISIONING VIRTUAL MACHINES WITH A SINGLE IDENTITY AND CACHE VIRTUAL DISK	16/655465	11163687	10/17/2019	11/2/2021	Granted	CITRIX SYSTEMS, INC.
VIRTUALIZING DEVICE MANAGEMENT SERVICES ON A MULTI-SESSION PLATFORM	16/654961	10992758	10/16/2019	4/27/2021	Granted	CITRIX SYSTEMS, INC.
CANARY DEPLOYMENT USING AN APPLICATION DELIVERY CONTROLLER	16/600735	11099826B2	10/14/2019	8/24/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DISABLING SERVICES IN A CLUSTER	16/599153	11044174	10/11/2019	6/22/2021	Granted	CITRIX SYSTEMS, INC.
INCREASING CAPACITY IN A TOPIC-SUBSCRIPTION MESSAGING SYSTEM	16/592351	11134037	10/3/2019	9/28/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR FLEXIBLE, EXTENSIBLE AUTHENTICATION SUBSYSTEM	16/591810	11082453	10/3/2019	8/3/2021	Granted	CITRIX SYSTEMS, INC.

PATENT
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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
THAT ENABLED ENHANCE SECURITY FOR APPLICATIONS						
METHOD TO SET UP AND TEAR DOWN CLOUD ENVIRONMENTS BASED ON A SCHEDULE OBTAINED FROM ONE OR MORE HOSTED CALENDARS	16/585300	11055131	9/27/2019	7/6/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHODS FOR PROVISIONING DIFFERENT VERSIONS OF A VIRTUAL APPLICATION	16/585173	11126455	9/27/2019	9/21/2021	Granted	CITRIX SYSTEMS, INC.
PERHIPHERAL DEVICE SHARING OVER PEER-TO-PEER CONNECTION	16/585119	11190569	9/27/2019	11/30/2021	Granted	CITRIX SYSTEMS, INC.
INDICATING WHETHER A USER DEVICE CAN ACCESS A COMPUTING RESOURCE BASED ON WHETHER A CURRENT TIME FALLS WITHIN ONE OR MORE TIME SLOTS ASSOCIATED WITH THE COMPUTING RESOURCE	16/580044	10972406	9/24/2019	4/6/2021	Granted	CITRIX SYSTEMS, INC.
INTELLIGENT REDIRECTOR BASED ON RESOLVER TRANSPARENCY	16/578887	10812442	9/23/2019	10/20/2020	Granted	CITRIX SYSTEMS, INC.
FACIAL RECOGNITION BASED AUTO ZOOM	16/570254	11080514	9/13/2019	8/3/2021	Granted	CITRIX SYSTEMS, INC.
PLATFORM FOR HANDLING NOTIFICATIONS IN A SMART DEVICE	16/570243	10880698	9/13/2019	12/29/2020	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
APPLICATION WITH MULTIPLE OPERATION MODES	16/567238	10701082	9/11/2019	6/30/2020	Granted	CITRIX SYSTEMS, INC.
DISTANCE BASED SESSION ROAMING	16/566954	11057777	9/11/2019	7/6/2021	Granted	CITRIX SYSTEMS, INC.
SECURE INFORMATION STORAGE	16/552180	11080408	8/27/2019	8/3/2021	Granted	CITRIX SYSTEMS, INC.
IDENTITY MANAGEMENT CONNECTING PRINCIPAL IDENTITIES TO ALIAS IDENTITIES HAVING AUTHORIZATION SCOPES	16/550656	11128625	8/26/2019	9/21/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHODS FOR PROVIDING USER ANALYTICS AND PERFORMANCE FEEDBACK FOR WEB APPLICATIONS	16/550480	11038988	8/26/2019	6/15/2021	Granted	CITRIX SYSTEMS, INC.
MAINTAINING CONTINUOUS NETWORK SERVICE	16/547102	11082451	8/21/2019	8/3/2021	Granted	CITRIX SYSTEMS, INC.
CROSS-DOMAIN BROKERING PROTOCOL CLOUD PROXY	16/545192	11115489	8/20/2019	9/7/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR USING A SCRIPTING LANGUAGE TO DYNAMICALLY STYLE A CASCADING STYLE SHEET	16/544271	10970469	8/19/2019	4/6/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PRIORITIZING MESSAGES FOR CONVERSION FROM TEXT TO SPEECH BASED ON PREDICTIVE USER BEHAVIOR	16/543940	10887268	8/19/2019	1/5/2021	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DETECTING HARD-CODED STRINGS IN SOURCE CODE	16/530310	10929277	8/2/2019	2/23/2021	Granted	CITRIX SYSTEMS, INC.
PREVIEWING APPLICATION USER INTERFACE FOR MULTIPLE LOCALES	16/530150	11182180	8/2/2019	11/23/2021	Granted	CITRIX SYSTEMS, INC.
PRIVACY PROTECTION FOR PROXY AUTO-CONFIGURATION FILES	16/522244	11005926	7/25/2019	5/11/2021	Granted	CITRIX SYSTEMS, INC.
QUALITY OF EXPERIENCE BASED NETWORK ANALYSIS	16/520720	10897424	7/24/2019	1/19/2021	Granted	CITRIX SYSTEMS, INC.
AUTO TUNING OF HYBRID WAN LINKS BY ADAPTIVE DUPLICATION OF PACKETS ON ALTERNATE LINKS	16/511592	11075831	7/15/2019	7/27/2021	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEM FOR LOCALLY GENERATED GESTURE AND TRANSITION GRAPHICS INTERACTION WITH TERMINAL CONTROL SERVICES	16/510576	11016653	7/12/2019	5/25/2021	Granted	CITRIX SYSTEMS, INC.
REAL-TIME HISTORY-BASED BYTE STREAM COMPRESSION	16/507739	10651871	7/10/2019	5/12/2020	Granted	CITRIX SYSTEMS, INC.
METHOD FOR OPTIMIZED CANARY DEPLOYMENTS FOR IMPROVED CUSTOMER EXPERIENCE	16/502741	10936465	7/3/2019	3/2/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF ENABLING FAST USER ACCESS TO REMOTE DESKTOPS	16/466524	11050743	1/29/2019	6/29/2021	Granted	CITRIX SYSTEMS, INC.

PATENT
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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SECURING COMMUNICATIONS BETWEEN SERVICES IN A CLUSTER USING LOAD BALANCING SYSTEMS AND METHODS	16/454396	11102125	6/27/2019	8/24/2021	Granted	CITRIX SYSTEMS, INC.
ENHANCED LARGE SCALE NETWORK ADDRESS TRANSLATION (NAT) SYSTEM FOR PROCESSING PACKETS BETWEEN ROUTER AND TRANSMISSION CONTROL PROTOCOL/INTERNET PROTOCOL (TCP/IP) NETWORK	16/451895	11190484	6/25/2019	11/30/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHOD UPDATING ADC CONFIGURATION WITH INTENDED STATE USING DESIRED STATE API	16/447130	11057271	6/20/2019	7/6/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR IMPROVING EFFICIENCY OF SSL/TLS CONNECTIONS	16/446739	10862976	6/20/2019	12/8/2020	Granted	CITRIX SYSTEMS, INC.
BANDWIDTH SHARING AMONGST TRUSTED PEERS	16/445981	11184833	6/19/2019	11/23/2021	Granted	CITRIX SYSTEMS, INC.
AUTOMATIC IMAGE CAPTURE	16/444334	11095804	6/18/2019	8/17/2021	Granted	CITRIX SYSTEMS, INC.
POLICY BASED AUTHENTICATION	16/439781	11057212	6/13/2019	7/6/2021	Granted	CITRIX SYSTEMS, INC.
VIRTUAL FILE ORGANIZER	16/434851	11100057	6/7/2019	8/24/2021	Granted	CITRIX SYSTEMS, INC.
COMPUTING SYSTEM PROVIDING DIRECT ROUTING FOR DESKTOP AS	16/430726	10862975	6/4/2019	12/8/2020	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
A SERVICE (DAAS) SESSIONS TO A PRIVATE NETWORK AND RELATED METHODS						
VIRTUAL PRIVATE NETWORKING BASED ON PEER-TO-PEER COMMUNICATION	16/428580	10743357	5/31/2019	8/11/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR EXTRACTION OF USER INTENT FROM SPEECH OR TEXT	16/426621	11164567	5/30/2019	11/2/2021	Granted	CITRIX SYSTEMS, INC.
MULTI-DEVICE WORKSPACE NOTIFICATIONS	16/423609	11171912	5/28/2019	11/9/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR GENERATING VIRTUAL SESSION CONNECTION LEASES USING TEMPLATES	16/421846	11018992	5/24/2019	5/25/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO CHOOSE AN OPTIMAL PATH FROM MULTIPLE HIGH LATENCY LINKS	16/420988	10834000	5/23/2019	11/10/2020	Granted	CITRIX SYSTEMS, INC.
USER EXPERIENCE ORIENTED PATH SELECTION	16/420808	10904143	5/23/2019	1/26/2021	Granted	CITRIX SYSTEMS, INC.
NETWORK TRAFFIC STEERING WITH PROGRAMMATICALLY GENERATED PROXY AUTO-CONFIGURATION FILES	16/417018	10911310	5/20/2019	2/2/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR FILTERING NOTIFICATIONS FOR	16/416716	11038825	5/20/2019	6/15/2021	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
END POINTS ASSOCIATED WITH A USER						
SYSTEMS AND METHODS FOR VIRTUAL SESSION CONNECTION USING COMPONENT-BASED CONNECTION LEASES	16/416481	11012374	5/20/2019	5/18/2021	Granted	CITRIX SYSTEMS, INC.
AUTOMATICALLY REPLICATE API CALLS TO SEPARATE DATA CENTERS	16/416119	10936379	5/17/2019	3/2/2021	Granted	CITRIX SYSTEMS, INC.
USING SERVICE GRAPHS TO COMPARE PERFORMANCE OF A PLURALITY OF VERSIONS OF A MICROSERVICE	16/415874	10924367	5/17/2019	2/16/2021	Granted	CITRIX SYSTEMS, INC.
SERVICE GRAPH HIGHLIGHTS MISSING NODES AND LINKS	16/415810	11055191	5/17/2019	7/6/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR RECORDING METADATA ABOUT MICROSERVICES FOR REQUESTS TO THE MICROSERVICES	16/415807	11057487	5/17/2019	7/6/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING CLIENT REQUESTS TO ACCESS SERVICES PROVIDED BY A DATA CENTER	16/415761	11032396	5/17/2019	6/8/2021	Granted	CITRIX SYSTEMS, INC.
REPLAY A SERVICE GRAPH AT A POINT IN TIME TO TROUBLESHOOT	16/415729	11056146	5/17/2019	7/6/2021	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR IDENTIFYING A CONTEXT OF AN ENDPOINT ACCESSING A PLURALITY OF MICROSERVICES	16/415106	10952022	5/17/2019	3/16/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR USING A CALL CHAIN TO IDENTIFY DEPENDENCIES AMONG A PLURALITY OF MICROSERVICES	16/414628	10983769	5/16/2019	4/20/2021	Granted	CITRIX SYSTEMS, INC.
COLLABORATION OF AUGMENTED REALITY CONTENT IN STEREOSCOPIC VIEW IN VIRTUALIZED ENVIRONMENT	16/406789	11004256	5/8/2019	5/11/2021	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR SHARING USER CONFIGURATION DATA BETWEEN DIFFERENT COMPUTING SESSIONS	16/404007	11025560	5/6/2019	6/1/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR REMOTE COMPUTING SESSION DISPLAY BASED UPON USER INPUT EVENT PRIORITIZATION	16/403102	11138026	5/3/2019	10/5/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR REMOTE COMPUTING SESSIONS WITH VARIABLE FORWARD ERROR CORRECTION (FEC)	16/403071	10824450	5/3/2019	11/3/2020	Granted	CITRIX SYSTEMS, INC.
COMPUTER SYSTEM PROVIDING HIERARCHICAL DISPLAY REMOTING OPTIMIZED WITH USER AND SYSTEM HINTS AND RELATED METHODS	16/403056	11036525	5/3/2019	6/15/2021	Granted	CITRIX SYSTEMS, INC.

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REEL: 062079 FRAME: 0112

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
WEBRTC API REDIRECTION WITH ALTERNATIVE NETWORK CONNECTIVITY STEERING	16/402926	10742726	5/3/2019	8/11/2020	Granted	CITRIX SYSTEMS, INC.
GENERATION OF MEDIA DIFF FILES	16/402908	10854241	5/3/2019	12/1/2020	Granted	CITRIX SYSTEMS, INC.
WEBRTC API REDIRECTION WITH NETWORK CONNECTIVITY STEERING	16/402902	11005930	5/3/2019	5/11/2021	Granted	CITRIX SYSTEMS, INC.
WEBRTC API REDIRECTION WITH NETWORK CONNECTIVITY STEERING FALLBACK	16/402882	10958722	5/3/2019	3/23/2021	Granted	CITRIX SYSTEMS, INC.
WEBRTC API REDIRECTION WITH INTELLIGENT NETWORK CONNECTIVITY STEERING	16/402847	10958721	5/3/2019	3/23/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR AN EMBEDDED BROWSER	16/402819	11159552	5/3/2019	10/26/2021	Granted	CITRIX SYSTEMS, INC.
COMBINING INTERNET ROUTING INFORMATION WITH ACCESS LOGS TO ASSESS RISK OF USER EXPOSURE	16/401860	10721270	5/2/2019	7/21/2020	Granted	CITRIX SYSTEMS, INC.
SECURE EXECUTION OF ENTERPRISE APPLICATIONS ON MOBILE DEVICES	16/401588	11134104	5/2/2019	9/28/2021	Granted	CITRIX SYSTEMS, INC.
CROSS PROTOCOL ASSOCIATION FOR INTERNET ADDRESSES FOR METADATA ASSOCIATION SYSTEMS AND METHODS	16/399879	11095608	4/30/2019	8/17/2021	Granted	CITRIX SYSTEMS, INC.

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REEL: 062079 FRAME: 0113

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEM AND METHOD FOR PRIORITIZING DATA TRAFFIC	16/399423	10863526	4/30/2019	12/8/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING VIRTUAL MONITORS	16/397027	10635378	4/29/2019	4/28/2020	Granted	CITRIX SYSTEMS, INC.
COMPUTING SYSTEM WITH DUAL VDA REGISTRATION AND RELATED METHODS	16/396893	11188372	4/29/2019	11/30/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DYNAMIC ROUTING ON A SHARED IP ADDRESS	16/389338	11121968	4/19/2019	9/14/2021	Granted	CITRIX SYSTEMS, INC.
CLIENT COMPUTING DEVICE PROVIDING PREDICTIVE PRE-LAUNCH SOFTWARE AS A SERVICE (SAAS) SESSIONS AND RELATED METHODS	16/385117	11128676	4/16/2019	9/21/2021	Granted	CITRIX SYSTEMS, INC.
USING DERIVED CREDENTIALS FOR ENROLLMENT WITH ENTERPRISE MOBILE DEVICE MANAGEMENT SERVICES	16/378147	10609560	4/8/2019	3/31/2020	Granted	CITRIX SYSTEMS, INC.
TRANSFORMING VALIDATED USER INTERFACE LAYOUTS USING INTER-PLATFORM DESIGN MAPPING DATA	16/377491	11055073	4/8/2019	7/6/2021	Granted	CITRIX SYSTEMS, INC.
VOICE-BASED OPERATIONS	16/374311	11056112	4/3/2019	7/6/2021	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0114

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
ADAPTIVE MECHANISM TO ADJUST UDT PACKET SIZE BASED ON ACTUAL NETWORK CONDITION	16/372712	10924423	4/2/2019	2/16/2021	Granted	CITRIX SYSTEMS, INC.
TRACKING IMAGE SENDERS ON CLIENT DEVICES	16/371596	10963981	4/1/2019	3/30/2021	Granted	CITRIX SYSTEMS, INC.
FILE CONTAINERIZATION AND MANAGEMENT	16/371383	10868855	4/1/2019	12/15/2020	Granted	CITRIX SYSTEMS, INC.
LOCAL SECURE RENDERING OF WEB CONTENT	16/343549	11074338	10/23/2018	7/27/2021	Granted	CITRIX SYSTEMS, INC.
CROSS-CUSTOMER WEB APP ANALYTICS	16/297860	11044307	3/11/2019	6/22/2021	Granted	CITRIX SYSTEMS, INC.
USER PERSISTENCE DATA MOVED BETWEEN INDIVIDUAL COMPUTE ENVIRONMENTS AND SESSION HOST ENVIRONMENTS	16/297843	10853120	3/11/2019	12/1/2020	Granted	CITRIX SYSTEMS, INC.
DATA MANAGEMENT FOR AN APPLICATION WITH MULTIPLE OPERATION MODES	16/295273	10965734	3/7/2019	3/30/2021	Granted	CITRIX SYSTEMS, INC.
DEVICE AUGMENTATION OF REAL TIME COMMUNICATIONS	16/291596	10984062	3/4/2019	4/20/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR SERVICE CHAIN LOAD BALANCING	16/291418	10630593	3/4/2019	4/21/2020	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DYNAMIC CONFIGURATION IN CLOUD COMPUTING ENVIRONMENTS	16/287747	11140030	2/27/2019	10/5/2021	Granted	CITRIX SYSTEMS, INC.
CLIENT COMPUTING DEVICE PROVIDING END-TO-END QUALITY OF SERVICE (QOS) CONTROL FOR SOFTWARE AS A SERVICE (SAAS) SESSIONS AND RELATED METHODS	16/287353	10958705	2/27/2019	3/23/2021	Granted	CITRIX SYSTEMS, INC.
OPTIMIZED NETWORK SELECTION	16/286728	10812995	2/27/2019	10/20/2020	Granted	CITRIX SYSTEMS, INC.
ACTIVITY DETECTION IN WEB APPLICATIONS	16/276924	10764386	2/15/2019	9/1/2020	Granted	CITRIX SYSTEMS, INC.
ENCAPSULATING TRAFFIC ENTROPY INTO VIRTUAL WAN OVERLAY FOR BETTER LOAD BALANCING	16/274397	10547551	2/13/2019	1/28/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR PROVIDING SEAMLESS THIN CLIENT CONVERSION	16/274392	10656969	2/13/2019	5/19/2020	Granted	CITRIX SYSTEMS, INC.
COMPUTING SYSTEM PROVIDING SAAS APPLICATION INTEGRATION WITH INTERNET OF THINGS (IOT) SENSORS THROUGH AUTOMATED APPLICATION PROGRAM INTERFACE (API) GENERATION AND RELATED METHODS	16/273429	10819797	2/12/2019	10/27/2020	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
PROXIMITY AND CONTEXT AWARE MOBILE WORKSPACES IN ENTERPRISE SYSTEMS	16/269726	10686655	2/7/2019	6/16/2020	Granted	CITRIX SYSTEMS, INC.
EXTENSION OF MOBILE DEVICE SENSOR CAPABILITIES INTO AN APPLICATION	16/268127	10789093	2/5/2019	9/29/2020	Granted	CITRIX SYSTEMS, INC.
SECURE EXECUTION OF ENTERPRISE APPLICATIONS ON MOBILE DEVICES	16/267357	10402546	2/4/2019	9/3/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR IMPROVING SECURITY OF SECURE SOCKET LAYER (SSL) COMMUNICATIONS	16/266931	10819734	2/4/2019	10/27/2020	Granted	CITRIX SYSTEMS, INC.
FILE PORTABILITY ACROSS SAAS APPLICATIONS	16/266195	10922375	2/4/2019	2/16/2021	Granted	CITRIX SYSTEMS, INC.
WEB APPLICATION WITH CUSTOM FORM COMPONENTS	16/266188	10878057	2/4/2019	12/29/2020	Granted	CITRIX SYSTEMS, INC.
SUBSCRIBER IDENTITY MANAGEMENT	16/265103	10986085	2/1/2019	4/20/2021	Granted	CITRIX SYSTEMS, INC.
COMPUTER SYSTEM PROVIDING CONTEXT-BASED SOFTWARE AS A SERVICE (SAAS) APPLICATION SESSION SWITCHING AND RELATED METHODS	16/264830	11165871	2/1/2019	11/2/2021	Granted	CITRIX SYSTEMS, INC.
COMPUTER SYSTEM PROVIDING ANONYMOUS REMOTE ACCESS TO	16/264802	11159531	2/1/2019	10/26/2021	Granted	CITRIX SYSTEMS, INC.

PATENT
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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SHARED COMPUTING SESSIONS AND RELATED METHODS						
APPLICATION PUBLISHING IN A VIRTUALIZED ENVIRONMENT	16/259598	10949061	1/28/2019	3/16/2021	Granted	CITRIX SYSTEMS, INC.
VIRTUALIZATION LAYER FOR MOBILE APPLICATIONS	16/257610	10768903	1/25/2019	9/8/2020	Granted	CITRIX SYSTEMS, INC.
SHARING OF DATA WITH APPLICATIONS	16/247782	11036688	1/15/2019	6/15/2021	Granted	CITRIX SYSTEMS, INC.
SECURE CLOUD COMPUTING	16/246104	11122029	1/11/2019	9/14/2021	Granted	CITRIX SYSTEMS, INC.
SECURE SINGLE SIGN ON AND CONDITIONAL ACCESS FOR CLIENT APPLICATIONS	16/244598	10992473	1/10/2019	4/27/2021	Granted	CITRIX SYSTEMS, INC.
SERVER FOR DETECTING A PROXY DEVICE IN A COMMUNICATIONS PATH AND RELATED METHODS	16/242613	11005821	1/8/2019	5/11/2021	Granted	CITRIX SYSTEMS, INC.
REAL TIME DIGITAL CONTENT CONCEALMENT	16/242222	10650121	1/8/2019	5/12/2020	Granted	CITRIX SYSTEMS, INC.
COMPUTER SYSTEM PROVIDING VIRTUAL COMPUTING SESSIONS THROUGH VIRTUAL DELIVERY AGENT LEASING WITH ENHANCED POWER SAVINGS AND CONNECTIVITY AND RELATED METHODS	16/241047	10860361	1/7/2019	12/8/2020	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0118

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHODS AND SYSTEMS FOR UPDATING A DATABASE BASED ON OBJECT RECOGNITION	16/240342	10853634	1/4/2019	12/1/2020	Granted	CITRIX SYSTEMS, INC.
POLICY BASED NOTIFICATION PROTECTION SERVICE IN WORKSPACE	16/238972	11170126	1/3/2019	11/9/2021	Granted	CITRIX SYSTEMS, INC.
METHOD FOR OPTIMAL PATH SELECTION FOR DATA TRAFFIC UNDERGOING HIGH PROCESSING OR QUEUING DELAY	16/238865	10749787	1/3/2019	8/18/2020	Granted	CITRIX SYSTEMS, INC.
TRACKING TAINTED CONNECTION AGENTS	16/238202	11165575	1/2/2019	11/2/2021	Granted	CITRIX SYSTEMS, INC.
BIDIRECTIONAL COMMUNICATION CLUSTERS	16/238056	11178218	1/2/2019	11/16/2021	Granted	CITRIX SYSTEMS, INC.
VIRTUALIZATION ENVIRONMENT PROVIDING USER-BASED SEARCH INDEX ROAMING AND RELATED METHODS	16/236832	11138274	12/31/2018	10/5/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR UNICODE HOMOGRAPH ANTI-SPOOFING USING OPTICAL CHARACTER RECOGNITION	16/235772	10885373	12/28/2018	1/5/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO OPERATE DEVICES WITH DOMAIN NAME SYSTEM (DNS) CACHES	16/232613	11102165	12/26/2018	8/24/2021	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0119

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
INTELLIGENT AND DYNAMIC OVERLAY TUNNEL FORMATION VIA AUTOMATIC DISCOVERY OF CITRIVITY/SDWAN PEER IN THE DATAPATH IN A PURE PLUG AND PLAY ENVIRONMENT WITH ZERO NETWORKING	16/232451	11044117	12/26/2018	6/22/2021	Granted	CITRIX SYSTEMS, INC.
ENHANCE A MAIL APPLICATION TO FORMAT A LONG EMAIL CONVERSATION FOR EASY CONSUMPTION	16/232416	10936639	12/26/2018	3/2/2021	Granted	CITRIX SYSTEMS, INC.
WEBRTC API REDIRECTION WITH INTERCEPTION TECHNIQUES	16/229445	10462216	12/21/2018	10/29/2019	Granted	CITRIX SYSTEMS, INC.
WEBRTC API REDIRECTION WITH SCREEN SHARING	16/229308	10904325	12/21/2018	1/26/2021	Granted	CITRIX SYSTEMS, INC.
WEBRTC API REDIRECTION WITH FALLBACKS	16/229251	10855755	12/21/2018	12/1/2020	Granted	CITRIX SYSTEMS, INC.
WEBRTC API REDIRECTION WITH WINDOW MONITORING/OVERLAY DETECTION	16/228964	10673939	12/21/2018	6/2/2020	Granted	CITRIX SYSTEMS, INC.
DETECTION AND REPAINTING OF SEMI-TRANSPARENT OVERLAYS	16/228945	10742725	12/21/2018	8/11/2020	Granted	CITRIX SYSTEMS, INC.
REVERSE SEAMLESS INTEGRATION BETWEEN LOCAL AND REMOTE COMPUTING ENVIRONMENTS	16/227284	10855747	12/20/2018	12/1/2020	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0120

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
REMOTING OR LOCALIZING TOUCH GESTURES AT A VIRTUALIZATION CLIENT AGENT	16/227064	10754436	12/20/2018	8/25/2020	Granted	CITRIX SYSTEMS, INC.
METHOD FOR SECURING THE RENDEZVOUS CONNECTION IN A CLOUD SERVICE USING ROUTING TOKENS	16/223965	11050566	12/18/2018	6/29/2021	Granted	CITRIX SYSTEMS, INC.
SECURE OFFLINE STREAMING OF CONTENT	16/223475	11010486	12/18/2018	5/18/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR UNLOCKING A MOBILE DEVICE	16/223421	10681205	12/18/2018	6/9/2020	Granted	CITRIX SYSTEMS, INC.
DISTRACTION FACTOR USED IN A/B TESTING OF A WEB APPLICATION	16/221995	11144118	12/17/2018	10/12/2021	Granted	CITRIX SYSTEMS, INC.
AUTOMATED KEYBOARD MAPPING FOR VIRTUAL DESKTOPS	16/221849	11036308	12/17/2018	6/15/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEM WITH AUTOMATIC CREATION OF APPLICATION-ORCHESTRATION WIDGETS FOR MULTI-APPLICATION INTERACTION	16/217777	10470015	12/12/2018	11/5/2019	Granted	CITRIX SYSTEMS, INC.
PREDICTIVE MICROSERVICE SYSTEMS AND METHODS	16/217176	10963324	12/12/2018	3/30/2021	Granted	CITRIX SYSTEMS, INC.
REMOTE MANAGEMENT OF DISTRIBUTED DATACENTERS	16/213078	10585705	12/7/2018	3/10/2020	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
BLOCKING ROUTINE REDIRECTION	16/212934	11017081	12/7/2018	5/25/2021	Granted	CITRIX SYSTEMS, INC.
METHOD TO SAVE COMPUTATIONAL RESOURCES BY DETECTING ENCRYPTED PAYLOAD	16/210793	11012429	12/5/2018	5/18/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHODS TO FILTER OUT NOISY APPLICATION SIGNATURES TO IMPROVE PRECISION OF FIRST PACKET CLASSIFICATION	16/210706	10911362	12/5/2018	2/2/2021	Granted	CITRIX SYSTEMS, INC.
FILE REDUNDANCY DETECTION AND MITIGATION	16/210565	10997122	12/5/2018	5/4/2021	Granted	CITRIX SYSTEMS, INC.
PROVIDING MOST RECENT APPLICATION VIEWS FROM USER DEVICES	16/210484	10637942	12/5/2018	4/28/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND APPARATUS FOR ENHANCED QOS, STEERING AND POLICY ENFORCEMENT FOR HTTPS TRAFFIC VIA INTELLIGENT INLINE PATH DISCOVERY OF TLS TERMINATING NODE	16/209070	11025601	12/4/2018	6/1/2021	Granted	CITRIX SYSTEMS, INC.
DETECTING ATTACKS USING HANDSHAKE REQUESTS SYSTEMS AND METHODS	16/207423	11019100	12/3/2018	5/25/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CONFIGURING A DEVICE VIA A	16/206362	10880160	11/30/2018	12/29/2020	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SOFTWARE-DEFINED NETWORKING CONTROLLER						
FORM TEMPLATE MATCHING TO POPULATE FORMS DISPLAYED BY CLIENT DEVICES	16/202294	10990751	11/28/2018	4/27/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR NETWORK CONTROLLED ACCESS OF RESOURCES	16/201661	10476969	11/27/2018	11/12/2019	Granted	CITRIX SYSTEMS, INC.
ACTIVITY-BASED RESOURCE ALLOCATION AMONG VIRTUAL-COMPUTING SESSIONS	16/201089	10965535	11/27/2018	3/30/2021	Granted	CITRIX SYSTEMS, INC.
SELF-FEDERATION IN AUTHENTICATION SYSTEMS	16/198249	11159517	11/21/2018	10/26/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO FILTER OUT NOISY APPLICATION SIGNATURES TO IMPROVE PRECISION OF FIRST PACKET APPLICATION CLASSIFICATION	16/196799	11128564	11/20/2018	9/21/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PREVENTING SERVICE DISRUPTION DURING SOFTWARE UPDATES	16/196159	10649765	11/20/2018	5/12/2020	Granted	CITRIX SYSTEMS, INC.
COMPUTER SYSTEM AND METHODS PROVIDING VIRTUAL COMPUTING SESSION CONNECTIONS AND RE-DIRECTS BASED UPON ORDERED LIST OF VIRTUAL DELIVERY AGENTS	16/194823	11115478	11/19/2018	9/7/2021	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR SECURELY MANAGING BROWSER PLUGINS VIA EMBEDDED BROWSER	16/193802	11019066	11/16/2018	5/25/2021	Granted	CITRIX SYSTEMS, INC.
NETWORK OFFERING IN CLOUD COMPUTING ENVIRONMENT	16/192136	10938642	11/15/2018	3/2/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PERFORMANCE BUG AND GRIEVANCE REPORTS FOR SAAS APPLICATIONS	16/190753	10936470	11/14/2018	3/2/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PUSH NOTIFICATION SERVICE FOR SAAS APPLICATIONS	16/190222	11064039	11/14/2018	7/13/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SECURE PEER-TO-PEER CACHING	16/188184	10841393	11/12/2018	11/17/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR LIVE SAAS OBJECTS	16/188176	11005891	11/12/2018	5/11/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR INTELLISENSE FOR SAAS APPLICATION	16/188118	10996819	11/12/2018	5/4/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SHARING SAAS CONTENT ACROSS WORKSPACE	16/185961	11172029	11/9/2018	11/9/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR WATERMARKING AUDIO OF SAAS APPLICATIONS	16/185805	11244693	11/9/2018	2/8/2022	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
RENDERING CONTENT OF SERVICE PROVIDERS VIA WEB PAGE HAVING DYNAMICALLY-LOADED PLUGINS	16/185733	10936337	11/9/2018	3/2/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SCREENSHOT MEDIATION BASED ON POLICY	16/184707	10943018	11/8/2018	3/9/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SECURE SAAS REDIRECTION FROM NATIVE APPLICATIONS	16/184676	11153306	11/8/2018	10/19/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR LATENCY MASKING VIA PREFIX CACHING	16/184295	10708382	11/8/2018	7/7/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR APPLICATION PRE-LAUNCH	16/183232	11153285	11/7/2018	10/19/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR TRANSPARENT SAAS DATA ENCRYPTION AND TOKENIZATION	16/183226	11153284	11/7/2018	10/19/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CONTINUOUS AUTHENTICATION	16/183210	11063953	11/7/2018	7/13/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ENCRYPTED BROWSER CACHE	16/183190	11196714	11/7/2018	12/7/2021	Granted	CITRIX SYSTEMS, INC.
PRELOADING OF APPLICATION ON A USER DEVICE BASED ON CONTENT RECEIVED BY THE USER DEVICE	16/182734	11003468	11/7/2018	5/11/2021	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR MANAGING DOWNLOADS FROM AN EMBEDDED BROWSER	16/182250	10862998	11/6/2018	12/8/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SAAS OVERLAYS USING AN EMBEDDED BROWSER	16/182191	10908785	11/6/2018	2/2/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SAAS APPLICATION PRESENTATION MODE ON MULTIPLE DISPLAYS	16/182171	11113021B2	11/6/2018	9/7/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DYNAMICALLY ENFORCING DIGITAL RIGHTS MANAGEMENT VIA EMBEDDED BROWSER	16/181988	11061999	11/6/2018	7/13/2021	Granted	CITRIX SYSTEMS, INC.
PROVIDING ACCESS TO CONTENT WITHIN A COMPUTING ENVIRONMENT	16/180721	11082429	11/5/2018	8/3/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR QUALITY OF SERVICE REPRIORITIZATION OF COMPRESSED TRAFFIC	16/179641	10764192	11/2/2018	9/1/2020	Granted	CITRIX SYSTEMS, INC.
LOCAL MAPPED ACCOUNTS IN VIRTUAL DESKTOPS	16/178803	10986082	11/2/2018	4/20/2021	Granted	CITRIX SYSTEMS, INC.
NETWORK CONFIGURATION SYSTEM	16/176226	10958553	10/31/2018	3/23/2021	Granted	CITRIX SYSTEMS, INC.

PATENT
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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
WEB ADAPTATION AND HOOKING FOR VIRTUAL PRIVATE INTEGRATION SYSTEMS AND METHODS	16/175225	10742712	10/30/2018	8/11/2020	Granted	CITRIX SYSTEMS, INC.
PROTECTING SCREENSHOTS OF APPLICATIONS EXECUTING IN A PROTECTED WORKSPACE CONTAINER PROVIDED IN A MOBILE DEVICE	16/174548	10762231	10/30/2018	9/1/2020	Granted	CITRIX SYSTEMS, INC.
SECURELY SHARING FILES WITH USER DEVICES BASED ON LOCATION	16/174499	10915650	10/30/2018	2/9/2021	Granted	CITRIX SYSTEMS, INC.
COMPUTING SYSTEM WITH GUI TESTING DEVICE AND RELATED METHODS	16/171688	10990508	10/26/2018	4/27/2021	Granted	CITRIX SYSTEMS, INC.
PROVIDING FILES OF VARIABLE SIZES BASED ON DEVICE AND NETWORK CONDITIONS	16/171652	10911798	10/26/2018	2/2/2021	Granted	CITRIX SYSTEMS, INC.
COMPUTER SYSTEM PROVIDING MIRRORED SAAS APPLICATION SESSIONS AND RELATED METHODS	16/171618	11159396	10/26/2018	10/26/2021	Granted	CITRIX SYSTEMS, INC.
COMPUTING SYSTEM WITH AN EMAIL PRIVACY FILTER AND RELATED METHODS	16/165130	10826855	10/19/2018	11/3/2020	Granted	CITRIX SYSTEMS, INC.
MULTIFACTOR CONTEXTUAL AUTHENTICATION AND ENTROPY	16/164258	10673845	10/18/2018	6/2/2020	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
FROM DEVICE OR DEVICE INPUT OR GESTURE AUTHENTICATION						
SCALABLE MESSAGE PASSING ARCHITECTURE A CLOUD ENVIRONMENT	16/160337	10771570	10/15/2018	9/8/2020	Granted	CITRIX SYSTEMS, INC.
TEST CONTROLLER FOR CONCURRENT TESTING OF AN APPLICATION ON MULTIPLE DEVICES WITHOUT USING PRE-RECORDED SCRIPTS	16/159020	10915414	10/12/2018	2/9/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CONTROLLING ACCESS TO BROKER RESOURCES	16/157472	10778603	10/11/2018	9/15/2020	Granted	CITRIX SYSTEMS, INC.
POLICY BASED LOCATION PROTECTION SERVICE	16/157260	10638305	10/11/2018	4/28/2020	Granted	CITRIX SYSTEMS, INC.
MANAGEMENT OF REMOTE ACCESS USER APPLICATION LAYOUTS	16/156458	10963621	10/10/2018	3/30/2021	Granted	CITRIX SYSTEMS, INC.
COMPUTER SYSTEM PROVIDING MIRRORED SAAS APPLICATION SESSIONS AND RELATED METHODS	16/156267	10924545	10/10/2018	2/16/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR RESPONSIBLE INTERMEDIATION OF PRIVACY POLICIES	16/153045	11095688	10/5/2018	8/17/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PERFORMING TARGETED SCANNING OF A TARGET RANGE OF IP	16/149626	10630674	10/2/2018	4/21/2020	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
ADDRESSES TO VERIFY SECURITY CERTIFICATES						
SYSTEMS AND METHODS FOR GAMIFICATION OF SAAS APPLICATIONS	16/148591	10609165	10/1/2018	3/31/2020	Granted	CITRIX SYSTEMS, INC.
SELECTING AN INSTANCE OF A RESOURCE USING NETWORK ROUTABILITY INFORMATION	16/148474	11184462	10/1/2018	11/23/2021	Granted	CITRIX SYSTEMS, INC.
MOBILE APPLICATION MANAGEMENT BY RUN-TIME INSERTION OF A SUBSTITUTE APPLICATION CLASS LOADER INTO A MOBILE APPLICATION PROCESS	16/145927	10698703	9/28/2018	6/30/2020	Granted	CITRIX SYSTEMS, INC.
MOBILE APPLICATION MANAGEMENT BY RUN-TIME INSERTION OF A REPLACEMENT INSTRUMENTATION OBJECT INTO A MOBILE APPLICATION PROCESS	16/145814	10761863	9/28/2018	9/1/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF JUST-IN-TIME PROACTIVE NOTIFICATION OF A PRODUCT RELEASE CONTAINING A SOFTWARE FIX	16/144344	10635429	9/27/2018	4/28/2020	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR VALIDATING MULTIPLE METHODS OF INPUT USING A UNIFIED RULE SET	16/141074	10915702	9/25/2018	2/9/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CONSISTENT ENFORCEMENT	16/139800	10848571	9/24/2018	11/24/2020	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0129

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
POLICY ACROSS DIFFERENT SAAS APPLICATIONS VIA EMBEDDED BROWSER						
SYSTEMS AND METHODS FOR RENDERING WEBLINKS INSIDE A REMOTE APPLICATION USING AN EMBEDDED BROWSER	16/138598	10963532	9/21/2018	3/30/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR INTERCEPTING AND ENHANCING SAAS APPLICATION CALLS VIA EMBEDDED BROWSER	16/138076	10599486	9/21/2018	3/24/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MAINTAINING AND TRANSFERRING SAAS SESSION STATE	16/135773	10862978	9/19/2018	12/8/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR INTEGRATING HTML BASED APPLICATION WITH EMBEDDED BROWSER	16/135715	11087008	9/19/2018	8/10/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEM FOR EARLY SYSTEM RESOURCE CONSTRAINT DETECTION AND RECOVERY	16/133347	10868770	9/17/2018	12/15/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING LOAD BALANCING AS A SERVICE	16/131878	11005919	9/14/2018	5/11/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PRESENTING ADDITIONAL CONTENT FOR A NETWORK APPLICATION ACCESSED VIA AN EMBEDDED	16/130595	11093570	9/13/2018	8/17/2021	Granted	CITRIX SYSTEMS, INC.

PATENT
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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
BROWSER OF A CLIENT APPLICATION						
SYSTEMS AND METHODS FOR INTEGRATED SERVICE DISCOVERY FOR NETWORK APPLICATIONS	16/129240	10623508	9/12/2018	4/14/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR APPLICATION SCRIPTS FOR CROSS-DOMAIN APPLICATIONS	16/128424	10924377	9/11/2018	2/16/2021	Granted	CITRIX SYSTEMS, INC.
DETECTING CONTENT TYPES AND WINDOW REGIONS IN COMPOSITED DESKTOP FRAME BUFFER	16/127531	10649610	9/11/2018	5/12/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DETERMINING NETWORK CONFIGURATIONS USING HISTORICAL AND REAL-TIME NETWORK METRICS	16/127422	10484250	9/11/2018	11/19/2019	Granted	CITRIX SYSTEMS, INC.
TWO-PART CONTEXT-BASED RENDERING SOLUTION FOR HIGH-FIDELITY AUGMENTED REALITY IN VIRTUALIZED ENVIRONMENT	16/122461	10573057	9/5/2018	2/25/2020	Granted	CITRIX SYSTEMS, INC.
AUTO DISCOVERY AND CONFIGURATION OF SERVICES IN A LOAD BALANCING APPLIANCE	16/122446	10824409	9/5/2018	11/3/2020	Granted	CITRIX SYSTEMS, INC.
CONCEALMENT OF CUSTOMER SENSITIVE DATA IN VIRTUAL COMPUTING ARRANGEMENTS	16/121743	11057358	9/5/2018	7/6/2021	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0131

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
COMPUTING SYSTEM PROVIDING ENTERPRISE MOBILITY MANAGEMENT METADATA ANONYMITY POLICY ENFORCEMENT AND RELATED METHODS	16/117138	10990699	8/30/2018	4/27/2021	Granted	CITRIX SYSTEMS, INC.
DOCUMENT OBJECT MODEL (DOM) ELEMENT LOCATION PLATFORM	16/115718	10846463	8/29/2018	11/24/2020	Granted	CITRIX SYSTEMS, INC.
ACCESSING RESOURCES IN A REMOTE ACCESS OR CLOUD-BASED NETWORK ENVIRONMENT	16/114764	11075999	8/28/2018	7/27/2021	Granted	CITRIX SYSTEMS, INC.
DYNAMIC DELETE COMMAND PARTITIONING WITH DISK CACHING	16/112849	10635595	8/27/2018	4/28/2020	Granted	CITRIX SYSTEMS, INC.
BANDWIDTH EFFICIENT STREAMING AND SYNCHING MULTIMEDIA CONTENT AT A DESIRED QUALITY OF EXPERIENCE	16/111571	10893084	8/24/2018	1/12/2021	Granted	CITRIX SYSTEMS, INC.
FAST SMART CARD LOGIN	16/111328	10958640	8/24/2018	3/23/2021	Granted	CITRIX SYSTEMS, INC.
DETECTING SOFTWARE USER INTERFACE ISSUES IN MULTIPLE LANGUAGE ENVIRONMENTS	16/109935	10775975	8/23/2018	9/15/2020	Granted	CITRIX SYSTEMS, INC.
COLOR SCHEME GENERATOR FOR WEB APPLICATIONS	16/108381	10546039	8/22/2018	1/28/2020	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEM AND METHOD FOR CLOUD AWARE APPLICATION DELIVERY CONTROLLER	16/107670	10609128	8/21/2018	3/31/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR CUSTOMIZING PACKET PROCESSING ORDER IN NETWORKING DEVICES	16/100944	10728055	8/10/2018	7/28/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PERFORMING SERVICE TAG SWITCHING IN AN APPLICATION DELIVERY CONTROLLER	16/059619	10778468	8/9/2018	9/15/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEM FOR MANAGING ELECTRONIC MAIL INCLUDING DISABLING REPLYING TO A GIVEN EMAIL AND RELATED METHODS	16/058508	11115371	8/8/2018	9/7/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR WEB COLLABORATION	16/056887	10678867	8/7/2018	6/9/2020	Granted	CITRIX SYSTEMS, INC.
COMPUTING SYSTEM PROVIDING SUGGESTED ACTIONS WITHIN A SHARED APPLICATION PLATFORM AND RELATED METHODS	16/056868	10768953	8/7/2018	9/8/2020	Granted	CITRIX SYSTEMS, INC.
USE OF IDENTITY DATA ASSOCIATED WITH A DEVICE FOR DIRECTING COMMUNICATIONS TO ANOTHER DEVICE	16/053125	10848943	8/2/2018	11/24/2020	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
REMOTE DESKTOP PROTOCOL PROXY WITH SINGLE SIGN-ON AND ENFORCEMENT SUPPORT	16/047109	10924468	7/27/2018	2/16/2021	Granted	CITRIX SYSTEMS, INC.
ELASTIC CLOUD STORAGE ON MULTIPLE LOCATIONS	16/044942	10778769	7/25/2018	9/15/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR SEAMLESS TCP CONNECTION HANDOFF	16/043392	10536875	7/24/2018	1/14/2020	Granted	CITRIX SYSTEMS, INC.
DEVICE WITH A CAMERA FOR REAL-TIME RISK DETECTION OF PASSWORD LEAKAGE	16/042090	10891361	7/23/2018	1/12/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR USER INTERFACE DETECTION	16/039589	10901763	7/19/2018	1/26/2021	Granted	CITRIX SYSTEMS, INC.
METHOD TO REMAP HIGH PRIORITY CONNECTION WITH LARGE CONGESTION WINDOW TO HIGH LATENCY LINK TO ACHIEVE BETTER PERFORMANCE	16/038391	10686707	7/18/2018	6/16/2020	Granted	CITRIX SYSTEMS, INC.
SHARED SECRET VAULT FOR APPLICATIONS WITH SINGLE SIGN ON	16/032673	10699024	7/11/2018	6/30/2020	Granted	CITRIX SYSTEMS, INC.
REMOTE DESKTOP MONITORING USING A WEBCAM	16/032419	10938807	7/11/2018	3/2/2021	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
CHANGE CRITICALITY QUANTIFIER FOR AN IOT WORKSPACE AND ASSOCIATED METHODS	16/029875	10523516	7/9/2018	12/31/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SELECTING COMMUNICATION PATHS FOR APPLICATIONS SENSITIVE TO BURSTY PACKET DROPS	16/028861	10749795	7/6/2018	8/18/2020	Granted	CITRIX SYSTEMS, INC.
DISPLAYING GRAPHICS FOR LOCAL VIRTUAL MACHINE BY ALLOCATING AND MAPPING TEXTUAL BUFFER	16/028543	10635468	7/6/2018	4/28/2020	Granted	CITRIX SYSTEMS, INC.
EFFICIENT USE OF IPSEC TUNNELS IN MULTI-PATH ENVIRONMENT	16/028106	10992709	7/5/2018	4/27/2021	Granted	CITRIX SYSTEMS, INC.
BUFFERBLOAT RECOVERY AND AVOIDANCE SYSTEMS AND METHODS	16/027481	10798026	7/5/2018	10/6/2020	Granted	CITRIX SYSTEMS, INC.
REAL-TIME FILE SYSTEM EVENT MAPPING TO CLOUD EVENTS	16/022900	10838784	6/29/2018	11/17/2020	Granted	CITRIX SYSTEMS, INC.
UNIFIED DISPLAY FOR VIRTUAL RESOURCES	16/017368	11163424	6/25/2018	11/2/2021	Granted	CITRIX SYSTEMS, INC.
MOBILE DEVICE USING SHARED DIGITAL CERTIFICATE FOR DIFFERENT MANAGED ENTERPRISE APPLICATIONS AND RELATED METHODS	16/016042	10356084	6/22/2018	7/16/2019	Granted	CITRIX SYSTEMS, INC.

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SYSTEM FOR DETERMINING DISTANCE BETWEEN FIXED AND MOBILE ENDPOINTS AND RELATED METHODS	16/015813	10948593	6/22/2018	3/16/2021	Granted	CITRIX SYSTEMS, INC.
NETWORK APPLIANCE HAVING FORWARDING TRAFFIC MODE TO REDUCE TRAFFIC LOSS AND RELATED METHODS	16/012963	10834205	6/20/2018	11/10/2020	Granted	CITRIX SYSTEMS, INC.
SINGLE SIGN-ON FROM DESKTOP TO NETWORK	16/010580	10805283	6/18/2018	10/13/2020	Granted	CITRIX SYSTEMS, INC.
PROACTIVELY DEPLOYING ANALYTICS TO A COMPUTERIZED EDGE DEVICE	16/009503	11075813	6/15/2018	7/27/2021	Granted	CITRIX SYSTEMS, INC.
COMPUTING SYSTEM PROVIDING ENHANCED POINT OF PRESENCE (POP) SERVER SELECTION BASED UPON NETWORK HEALTH METRICS AND RELATED METHODS	16/007043	10924372	6/13/2018	2/16/2021	Granted	CITRIX SYSTEMS, INC.
METHOD TO MEASURE RELATIVE QOS GAINS AND TO REDUCE THE VARIANCE IN QOS FOR SIMILAR CONNECTIONS FOR DURING BANDWIDTH CONTENTION	16/004141	10666565	6/8/2018	5/26/2020	Granted	CITRIX SYSTEMS, INC.
VIDEO TRAFFIC, QUALITY OF SERVICE AND ENGAGEMENT ANALYTICS SYSTEM AND METHOD	16/001308	10555038	6/6/2018	2/4/2020	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SECURE FILE SHARING USING SEMANTIC WATERMARKING	15/998862	10846377	8/17/2018	11/24/2020	Granted	CITRIX SYSTEMS, INC.
DOMAIN PASS-THROUGH AUTHENTICATION IN A HYBRID CLOUD ENVIRONMENT	15/995540	10673837	6/1/2018	6/2/2020	Granted	CITRIX SYSTEMS, INC.
TRUSTED FILE INDIRECTION	15/992235	10929344	5/30/2018	2/23/2021	Granted	CITRIX SYSTEMS, INC.
ELECTRONIC DEVICE INCLUDING LOCAL IDENTITY PROVIDER SERVER FOR SINGLE SIGN ON AND RELATED METHODS	15/990258	10819695	5/25/2018	10/27/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD OF PROVIDING IMPROVED THROUGHPUT CONTROL UNDER DELAY-BASED CONGESTION SITUATION IN A NETWORK	15/982324	10594609	5/17/2018	3/17/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING VIRTUAL MONITORS	15/982301	10318232	5/17/2018	6/11/2019	Granted	CITRIX SYSTEMS, INC.
GENERATING CONVERSATION MODELS FROM DOCUMENTS	15/977641	11170161	5/11/2018	11/9/2021	Granted	CITRIX SYSTEMS, INC.
CONNECTING CLIENT DEVICES TO ANONYMOUS SESSIONS VIA HELPERS	15/976980	10887287	5/11/2018	1/5/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEM FOR DISPLAYING ELECTRONIC MAIL METADATA AND RELATED METHODS	15/976411	11029809	5/10/2018	6/8/2021	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEM AND METHOD FOR RATE-BASED PACKET TRANSMISSION OVER A NETWORK	15/974905	10659367	5/9/2018	5/19/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING LIFECYCLE AND REDUCING POWER CONSUMPTION BY LEARNING AN IOT DEVICE	15/973202	10673707	5/7/2018	6/2/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEM FOR DECRYPTING ENCRYPTED DATA BASED UPON ACQUIRED VISUAL REPRESENTATION OF ENCRYPTED DATA AND RELATED METHODS	15/972571	10785030	5/7/2018	9/22/2020	Granted	CITRIX SYSTEMS, INC.
COMPUTER SYSTEM PROVIDING SAAS APPLICATION SESSION STATE MIGRATION FEATURES AND RELATED METHODS	15/971157	11070630	5/4/2018	7/20/2021	Granted	CITRIX SYSTEMS, INC.
CONTROL VIEWING ACCESS TO DOCUMENTS IN COLLABORATIVE SCENARIOS USING FACIAL RECOGNITION FROM WEBCAMS	15/970079	11144655	5/3/2018	10/12/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEM FOR BANDWIDTH OPTIMIZATION WITH TRAFFIC PRIORITY DETERMINATION	15/970007	10778591	5/3/2018	9/15/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD TO OPTIMIZE WORKFLOW	15/969308	10587525	5/2/2018	3/10/2020	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
WEB UI AUTOMATION MAINTENANCE TOOL	15/969044	10963624	5/2/2018	3/30/2021	Granted	CITRIX SYSTEMS, INC.
CONCEALMENT OF CUSTOMER SENSITIVE DATA IN VIRTUAL COMPUTING ARRANGEMENTS	15/966068	11062049	4/30/2018	7/13/2021	Granted	CITRIX SYSTEMS, INC.
METHODS FOR ENHANCING A LEGACY SINGLE TENANT APPLICATION SYSTEM TO A MULTI-TENANT APPLICATION SYSTEM WITH MINIMAL CHANGES	15/963841	11157509	4/26/2018	10/26/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING REMOTE DESKTOP ACCESS	15/959531	11063935	4/23/2018	7/13/2021	Granted	CITRIX SYSTEMS, INC.
WRAPPING UNMANAGED APPLICATIONS ON A MOBILE DEVICE	15/957642	10545748	4/19/2018	1/28/2020	Granted	CITRIX SYSTEMS, INC.
POLICY BASED SERVICE ROUTING	15/953590	10791056	4/16/2018	9/29/2020	Granted	CITRIX SYSTEMS, INC.
LEVERAGING MULTI-STREAM TRANSPORT PROTOCOL CAPABILITIES FOR ROUTING	15/951665	10484266	4/12/2018	11/19/2019	Granted	CITRIX SYSTEMS, INC.
UNIVERSAL GROUP SUPPORT FOR AUTHENTICATION SYSTEMS	15/950323	11153304	4/11/2018	10/19/2021	Granted	CITRIX SYSTEMS, INC.
SECURE EXECUTION OF ENTERPRISE APPLICATIONS ON MOBILE DEVICES	15/946692	10469534	4/5/2018	11/5/2019	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DATA CACHING FOR CLOUD SERVICES	15/944107	10805421	4/3/2018	10/13/2020	Granted	CITRIX SYSTEMS, INC.
LARGE SCALE BANDWIDTH MANAGEMENT OF IP FLOWS USING A HIERARCHY OF TRAFFIC SHAPING DEVICES	15/941162	10382339	3/30/2018	8/13/2019	Granted	CITRIX SYSTEMS, INC.
INFERRING RADIO TYPE FROM CLUSTERING ALGORITHMS	15/938769	10721134	3/28/2018	7/21/2020	Granted	CITRIX SYSTEMS, INC.
INFERRING CONGESTION AND SIGNAL QUALITY	15/938753	10972358	3/28/2018	4/6/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR INVENTORY DISCOVERY IN A NETWORK	15/928160	10862756	3/22/2018	12/8/2020	Granted	CITRIX SYSTEMS, INC.
APPLICATION-CENTRIC METHOD TO FIND RELATIVE PATHS	15/927125	10374945	3/21/2018	8/6/2019	Granted	CITRIX SYSTEMS, INC.
CLOUD AUTHENTICATED OFFLINE FILE SHARING	15/924771	10834170	3/19/2018	11/10/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR POLICY DRIVEN FINE GRAIN VALIDATION OF SERVERS' SSL CERTIFICATE FOR CLIENTLESS SSLVPN ACCESS	15/923977	10652229	3/16/2018	5/12/2020	Granted	CITRIX SYSTEMS, INC.
DYNAMICALLY PROVISIONING VIRTUAL MACHINES FROM REMOTE, MULTI-TIER POOL	15/923548	10896069	3/16/2018	1/19/2021	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHOD AND APPARATUS FOR ACCESSING THIRD-PARTY RESOURCES	15/922454	10218678	3/15/2018	2/26/2019	Granted	CITRIX SYSTEMS, INC.
SECURE SINGLE SIGN ON AND CONDITIONAL ACCESS FOR CLIENT APPLICATIONS	15/919935	10218679	3/13/2018	2/26/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR EMBEDDING DATA IN REMOTE SESSION DISPLAYS	15/917276	10678929	3/9/2018	6/9/2020	Granted	CITRIX SYSTEMS, INC.
INSTANT VIRTUAL APPLICATION LAUNCH	15/915203	10606617	3/8/2018	3/31/2020	Granted	CITRIX SYSTEMS, INC.
ANONYMOUS APPLICATION WRAPPING	15/910127	10277606	3/2/2018	4/30/2019	Granted	CITRIX SYSTEMS, INC.
READ CACHING WITH EARLY REFRESH FOR EVENTUALLY-CONSISTENT DATA STORE	15/908002	10635597	2/28/2018	4/28/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEM FOR BANDWIDTH OPTIMIZATION WITH INITIAL CONGESTION WINDOW DETERMINATION	15/896935	10594608	2/14/2018	3/17/2020	Granted	CITRIX SYSTEMS, INC.
AUTO-SCALING FOR ALLOCATION OF CLOUD SERVICE RESOURCES IN APPLICATION DEPLOYMENTS	15/896884	10698735	2/14/2018	6/30/2020	Granted	CITRIX SYSTEMS, INC.
USING PRESSURE SENSOR DATA IN A REMOTE ACCESS ENVIRONMENT	15/890975	11157161	2/7/2018	10/26/2021	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
COMPUTING SYSTEM PROVIDING CLOUD-BASED USER PROFILE MANAGEMENT FOR VIRTUAL SESSIONS AND RELATED METHODS	15/889394	10728343	2/6/2018	7/28/2020	Granted	CITRIX SYSTEMS, INC.
MESSAGE QUEUE MIGRATION ON A/B RELEASE ENVIRONMENTS	15/886985	10637730	2/2/2018	4/28/2020	Granted	CITRIX SYSTEMS, INC.
VIRTUALIZING DEVICE MANAGEMENT SERVICES ON A MULTI-SESSION PLATFORM	15/885901	10469592	2/1/2018	11/5/2019	Granted	CITRIX SYSTEMS, INC.
VIRTUAL COMPUTING SYSTEM PROVIDING LOCAL SCREEN SHARING FROM HOSTED COLLABORATION APPLICATIONS AND RELATED METHODS	15/880938	10581939	1/26/2018	3/3/2020	Granted	CITRIX SYSTEMS, INC.
SPLIT-TUNNELING FOR CLIENTLESS SSL-VPN SESSIONS WITH ZERO-CONFIGURATION	15/880930	10812448	1/26/2018	10/20/2020	Granted	CITRIX SYSTEMS, INC.
METHOD TO COMPUTE THE TRADEOFF BETWEEN USER EXPERIENCE FROM PREFETCHING VERSUS THE BANDWIDTH CONSTRAINTS/COST AT THE CLOUD SERVICE	15/878911	10728358	1/24/2018	7/28/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR VERSIONING A CLOUD ENVIRONMENT FOR A DEVICE	15/878892	10620934	1/24/2018	4/14/2020	Granted	CITRIX SYSTEMS, INC.

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SYSTEMS AND METHODS FOR MULTIPATH TRANSMISSION CONTROL PROTOCOL CONNECTION MANAGEMENT	15/876847	10757146	1/22/2018	8/25/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SECURED WEB APPLICATION DATA TRAFFIC	15/876828	10574444	1/22/2018	2/25/2020	Granted	CITRIX SYSTEMS, INC.
PROVIDING COMMUNICATION CONNECTIVITY BETWEEN DISPARATE NETWORK ENTITIES LOCATED IN ISOLATED COMMUNICATION NETWORKS THROUGH A CENTRALIZED CLOUD SERVICE	15/875730	10587703	1/19/2018	3/10/2020	Granted	CITRIX SYSTEMS, INC.
METHOD FOR PRIORITIZATION OF INTERNET TRAFFIC BY FINDING APPROPRIATE INTERNET EXIT POINTS	15/875437	10516601	1/19/2018	12/24/2019	Granted	CITRIX SYSTEMS, INC.
MULTIPLE GEOGRAPHY SERVICE ROUTING	15/875424	10749982	1/19/2018	8/18/2020	Granted	CITRIX SYSTEMS, INC.
SEARCHING AND AGGREGATING DATA ACROSS MULTIPLE GEOLOCATIONS	15/875087	10885028	1/19/2018	1/5/2021	Granted	CITRIX SYSTEMS, INC.
INTELLIGENT SHORT TEXT INFORMATION RETRIEVE BASED ON DEEP LEARNING	15/874119	10891943	1/18/2018	1/12/2021	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
IN-BAND VOICE-ASSISTANT/CONCIERGE FOR CONTROLLING ONLINE MEETINGS	15/873252	10867601	1/17/2018	12/15/2020	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR CREATING AND MANAGING NETWORK GROUPS	15/873015	10868771	1/17/2018	12/15/2020	Granted	CITRIX SYSTEMS, INC.
NON-DISRUPTIVE ENABLEMENT OF HIGHLY AVAILABLE CLOUD COMPUTING SERVICES	15/869341	10609131	1/12/2018	3/31/2020	Granted	CITRIX SYSTEMS, INC.
PREDICTIVE TECHNIQUE TO SUPPRESS LARGE-SCALE DATA EXCHANGE	15/867456	10382308	1/10/2018	8/13/2019	Granted	CITRIX SYSTEMS, INC.
METHOD FOR ENCRYPTING DATA STREAMS WITH NEGOTIABLE AND ADAPTABLE ENCRYPTION LEVELS	15/867353	10972770	1/10/2018	4/6/2021	Granted	CITRIX SYSTEMS, INC.
SECURE EXECUTION OF ENTERPRISE APPLICATIONS ON MOBILE DEVICES	15/863853	10063595	1/5/2018	8/28/2018	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR SECURELY TRANSMITTING VOLUMES INTO CLOUD	15/858337	10341251	12/29/2017	7/2/2019	Granted	CITRIX SYSTEMS, INC.
ADAPTIVE DATA SANITATION SYSTEM FOR ENDPOINTS	15/851881	10943031	12/22/2017	3/9/2021	Granted	CITRIX SYSTEMS, INC.
INTERMEDIATED RETRIEVAL OF NETWORKED CONTENT	15/848442	10812614	12/20/2017	10/20/2020	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHOD FOR PACKET SCHEDULING USING MULTIPLE PACKET SCHEDULERS	15/847657	10164726	12/19/2017	12/25/2018	Granted	CITRIX SYSTEMS, INC.
REMOTE COMPONENT LOADER	15/846749	11036522	12/19/2017	6/15/2021	Granted	CITRIX SYSTEMS, INC.
SOFTWARE APPLICATION DYNAMIC LINGUISTIC TRANSLATION SYSTEM AND METHODS	15/843449	10474482	12/15/2017	11/12/2019	Granted	CITRIX SYSTEMS, INC.
VIRTUAL MACHINE WITH AN EMULATOR MANAGER FOR MIGRATION OF SYNCHRONIZED STREAMS OF STATE DATA	15/840256	10956197	12/13/2017	3/23/2021	Granted	CITRIX SYSTEMS, INC.
GEO-BASED CONNECTIVITY AWARENESS FOR BETTER PRODUCTIVITY	15/838769	10841738	12/12/2017	11/17/2020	Granted	CITRIX SYSTEMS, INC.
MULTI-GEOGRAPHICAL PROCESSING OF USER REQUESTS	15/834204	10542119	12/7/2017	1/21/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING ADAPTED MULTI-MONITOR TOPOLOGY SUPPORT IN A VIRTUALIZATION ENVIRONMENT	15/831749	10114600	12/5/2017	10/30/2018	Granted	CITRIX SYSTEMS, INC.
DATA SHARING EVENTS	15/825870	10798020	11/29/2017	10/6/2020	Granted	CITRIX SYSTEMS, INC.
METHOD AND APPARATUS FOR DETERRENCE AND DETECTION OF LEAKAGE DURING REMOTE INTERACTIVE SESSIONS	15/825561	10504201	11/29/2017	12/10/2019	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
CLOUD SERVICE AUTOMATION OF COMMON IMAGE MANAGEMENT	15/825506	10579363	11/29/2017	3/3/2020	Granted	CITRIX SYSTEMS, INC.
RENDERING A WEB APPLICATION IN A CLOUD SERVICE	15/820530	10666706	11/22/2017	5/26/2020	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR SECURELY TRANSMITTING VOLUMES INTO CLOUD	15/820085	10958633	11/21/2017	3/23/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING A VISIBLE WATERMARK IN A REMOTE SESSION	15/817832	10713745	11/20/2017	7/14/2020	Granted	CITRIX SYSTEMS, INC.
DEPLOYMENT ROUTING OF CLIENTS BY ANALYTICS	15/815615	10963238	11/16/2017	3/30/2021	Granted	CITRIX SYSTEMS, INC.
SECURE AUTHENTICATION OF A DEVICE THROUGH ATTESTATION BY ANOTHER DEVICE	15/813739	11153303	11/15/2017	10/19/2021	Granted	CITRIX SYSTEMS, INC.
INTERCEPTED LOADING OF WEB APPLICATIONS	15/806417	10528361	11/8/2017	1/7/2020	Granted	CITRIX SYSTEMS, INC.
METHOD FOR PRIORITIZING NETWORK PACKETS AT HIGH BANDWIDTH SPEEDS	15/804940	10862820	11/6/2017	12/8/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DETECTION OF UNTESTED CODE EXECUTION	15/801400	10248549	11/2/2017	4/2/2019	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DYNAMIC CRYPTO KEY MANAGEMENT FOR MOBILITY IN A CLOUD ENVIRONMENT	15/800625	10972445	11/1/2017	4/6/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEM FOR DYNAMIC SELECTION AND APPLICATION OF TCP CONGESTION AVOIDANCE FLAVORS	15/796540	10574796	10/27/2017	2/25/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR FIRST PACKET APPLICATION CLASSIFICATION	15/790410	10498658	10/23/2017	12/3/2019	Granted	CITRIX SYSTEMS, INC.
MULTI-SELECT DROPDOWN STATE REPLICATION	15/790382	10984015	10/23/2017	4/20/2021	Granted	CITRIX SYSTEMS, INC.
INPUT DEVICES IN HIGH LATENCY NETWORKS	15/788952	10637907	10/20/2017	4/28/2020	Granted	CITRIX SYSTEMS, INC.
METHOD TO DETERMINE OPTIMAL NUMBER OF HTTP2.0 STREAMS AND CONNECTIONS FOR BETTER QOE	15/787482	10587668	10/18/2017	3/10/2020	Granted	CITRIX SYSTEMS, INC.
METHOD TO TRACK SSL SESSION STATES FOR SSL OPTIMIZATION OF SAAS BASED APPLICATIONS	15/787463	10721214	10/18/2017	7/21/2020	Granted	CITRIX SYSTEMS, INC.
SESSION BASED ELASTIC LAYERING	15/785871	10803153	10/17/2017	10/13/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD OF PROVIDING COMPRESSION TECHNIQUE FOR JITTER SENSITIVE APPLICATION THROUGH MULTIPLE NETWORK LINKS	15/785335	10432530	10/16/2017	10/1/2019	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
NORMALIZING USER IDENTIFICATION ACROSS DISPARATE SYSTEMS	15/784328	10877960	10/16/2017	12/29/2020	Granted	CITRIX SYSTEMS, INC.
PROVIDING SECURITY TO MOBILE DEVICES VIA IMAGE EVALUATION OPERATIONS THAT ELECTRONICALLY ANALYZE IMAGE DATA RECEIVED FROM CAMERAS OF THE MOBILE DEVICES	15/764716	11023597	2/22/2018	6/1/2021	Granted	CITRIX SYSTEMS, INC.
DETECTING AND REPORTING CHANGES IN DATA VALUES	15/728333	10733173	10/9/2017	8/4/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR MANAGING A WORKSPACE ENVIRONMENT OF A COMPUTER PROCESSING SYSTEM	15/726521	10832213	10/6/2017	11/10/2020	Granted	CITRIX SYSTEMS, INC.
REAL-TIME CLOUD-BASED MESSAGING SYSTEM	15/725897	10560404	10/5/2017	2/11/2020	Granted	CITRIX SYSTEMS, INC.
LOADER APPLICATION WITH SECONDARY EMBEDDED APPLICATION OBJECT	15/724764	10628175	10/4/2017	4/21/2020	Granted	CITRIX SYSTEMS, INC.
LOCATION/THINGS AWARE CLOUD SERVICES DELIVERY SOLUTION	15/723978	11006273	10/3/2017	5/11/2021	Granted	CITRIX SYSTEMS, INC.
WEB STORAGE BASED IOT DEVICE PROTECT MECHANISM	15/723939	10805381	10/3/2017	10/13/2020	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR LOAD BALANCING AND CONNECTION MULTIPLEXING AMONG DATABASE SERVERS	15/722767	10565193	10/2/2017	2/18/2020	Granted	CITRIX SYSTEMS, INC.
COMPUTER SYSTEM PROVIDING USER SPECIFIC SESSION PRELAUNCH FEATURES AND RELATED METHODS	15/720183	10721316	9/29/2017	7/21/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO MINIMIZE PACKET DISCARD IN CASE OF SPIKY RECEIVE TRAFFIC	15/719232	10516621	9/28/2017	12/24/2019	Granted	CITRIX SYSTEMS, INC.
POLICY BASED PERSISTENCE	15/718270	10909271	9/28/2017	2/2/2021	Granted	CITRIX SYSTEMS, INC.
MANAGING BROWSER SESSION NAVIGATION BETWEEN ONE OR MORE BROWSERS	15/718098	10693974	9/28/2017	6/23/2020	Granted	CITRIX SYSTEMS, INC.
SECURE SINGLE SIGN ON AND CONDITIONAL ACCESS FOR CLIENT APPLICATIONS	15/716871	9948612	9/27/2017	4/17/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEM FOR MONITORING HEALTH STATUS OF A PERSON WITHIN AN ENCLOSED AREA	15/715686	10325470	9/26/2017	6/18/2019	Granted	CITRIX SYSTEMS, INC.
GENERATING AND MANAGING A COMPOSITE IDENTITY TOKEN FOR MULTI-SERVICE USE	15/714460	10505733	9/25/2017	12/10/2019	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
AUTOMATED ADDRESS FAILOVER FOR RECEIVERS AND BROWSERS USING A CLOUD SERVICE	15/712405	10389822	9/22/2017	8/20/2019	Granted	CITRIX SYSTEMS, INC.
ENCAPSULATING TRAFFIC ENTROPY INTO VIRTUAL WAN OVERLAY FOR BETTER LOAD BALANCING	15/711336	10212089	9/21/2017	2/19/2019	Granted	CITRIX SYSTEMS, INC.
ACCESSING CONFLICTING FRAMEWORKS AND CLASSES	15/711124	11048527	9/21/2017	6/29/2021	Granted	CITRIX SYSTEMS, INC.
AUTHENTICATION OF A CLIENT DEVICE BASED ON ENTROPY FROM A SERVER OR OTHER DEVICE	15/710999	10701065	9/21/2017	6/30/2020	Granted	CITRIX SYSTEMS, INC.
JAVA NATIVE INTERFACE AND WINDOWS UNIVERSAL APP HOOKING	15/710485	10853105	9/20/2017	12/1/2020	Granted	CITRIX SYSTEMS, INC.
ANCHORED MATCH ALGORITHM FOR MATCHING WITH LARGE SETS OF URL	15/710337	10949486	9/20/2017	3/16/2021	Granted	CITRIX SYSTEMS, INC.
SECURED ENCRYPTED SHARED CLOUD STORAGE	15/710315	11068606	9/20/2017	7/20/2021	Granted	CITRIX SYSTEMS, INC.
EXTENSIBLE, DECENTRALIZED HEALTH CHECKING OF CLOUD SERVICE COMPONENTS AND CAPABILITIES	15/707077	11108673	9/18/2017	8/31/2021	Granted	CITRIX SYSTEMS, INC.
REDIRECTION OF WEB CONTENT	15/700587	10545625	9/11/2017	1/28/2020	Granted	CITRIX SYSTEMS, INC.

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RDP PROXY SUPPORT IN PRESENCE OF RDP SERVER FARM WITH SESSION DIRECTORY OR BROKER	15/699892	10693860	9/8/2017	6/23/2020	Granted	CITRIX SYSTEMS, INC.
IDENTIFY AND PROTECT SENSITIVE TEXT IN GRAPHICS DATA	15/698822	11100237	9/8/2017	8/24/2021	Granted	CITRIX SYSTEMS, INC.
SECURING A DATA CONNECTION FOR COMMUNICATING BETWEEN TWO END-POINTS	15/695793	10523658	9/5/2017	12/31/2019	Granted	CITRIX SYSTEMS, INC.
DYNAMIC ACCESS CONTROL TO NETWORK RESOURCES USING FEDERATED FULL DOMAIN LOGON	15/690417	10841316	8/30/2017	11/17/2020	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR FILTERING COMMUNICATION BETWEEN PERIPHERAL DEVICES AND MOBILE COMPUTING DEVICES	15/689581	10055364	8/29/2017	8/21/2018	Granted	CITRIX SYSTEMS, INC.
POLICY BASED AUTHENTICATION	15/689568	10355864	8/29/2017	7/16/2019	Granted	CITRIX SYSTEMS, INC.
CONTENT REPLACEMENT AND REFRESH POLICY IMPLEMENTATION FOR A CONTENT DISTRIBUTION NETWORK	15/688424	10574778	8/28/2017	2/25/2020	Granted	CITRIX SYSTEMS, INC.
WRAPPING CONTINUATION TOKENS TO SUPPORT PAGING FOR MULTIPLE SERVERS ACROSS DIFFERENT GEOLOCATIONS	15/688252	10701161	8/28/2017	6/30/2020	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SECURE INTER-SERVICE COMMUNICATIONS IN A CLOUD COMPUTING SYSTEM	15/681535	10523442	8/21/2017	12/31/2019	Granted	CITRIX SYSTEMS, INC.
EXTENDING SINGLE-SIGN-ON TO RELYING PARTIES OF FEDERATED LOGON PROVIDERS	15/679686	10721222	8/17/2017	7/21/2020	Granted	CITRIX SYSTEMS, INC.
THIN PROVISIONING VIRTUAL DESKTOP INFRASTRUCTURE VIRTUAL MACHINES IN CLOUD ENVIRONMENTS WITHOUT THIN CLONE SUPPORT	15/677727	11157299	8/15/2017	10/26/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DYNAMIC RECEIVE BUFFERING	15/676483	10694003	8/14/2017	6/23/2020	Granted	CITRIX SYSTEMS, INC.
MOBILE-OPTIMIZED FILE TRANSFER MECHANISM BASED ON QR CODE	15/674169	11012496	8/10/2017	5/18/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO RETAIN EXISTING CONNECTIONS SO THAT THERE IS NO CONNECTION LOSS WHEN NODES ARE ADDED TO A CLUSTER FOR CAPACITY OR WHEN A NODE IS TAKEN OUT FROM THE CLUSTER FOR MAINTENANCE	15/670749	11089113	8/7/2017	8/10/2021	Granted	CITRIX SYSTEMS, INC.
AUTONOMOUS PRIVATE KEY RECOVERY	15/667456	10091001	8/2/2017	10/2/2018	Granted	CITRIX SYSTEMS, INC.
DYNAMIC TRIM PROCESSING WITH DISK CACHING	15/663255	10089235	7/28/2017	10/2/2018	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
CONNECTOR LEASING FOR LONG-RUNNING SOFTWARE OPERATIONS	15/663186	11010823	7/28/2017	5/18/2021	Granted	CITRIX SYSTEMS, INC.
SCRUBBING LOG FILES USING SCRUBBING ENGINES	15/661740	11062041	7/27/2017	7/13/2021	Granted	CITRIX SYSTEMS, INC.
HEURISTICS FOR SELECTING NEAREST ZONE BASED ON ICA RTT AND NETWORK LATENCY	15/661296	10476946	7/27/2017	11/12/2019	Granted	CITRIX SYSTEMS, INC.
SECURE INFORMATION STORAGE	15/661290	10438006	7/27/2017	10/8/2019	Granted	CITRIX SYSTEMS, INC.
PROACTIVE LINK LOAD BALANCING TO MAINTAIN QUALITY OF LINK	15/660147	10212043	7/26/2017	2/19/2019	Granted	CITRIX SYSTEMS, INC.
METHOD FOR OPTIMIZED CANARY DEPLOYMENTS FOR IMPROVED CUSTOMER EXPERIENCE	15/659285	10346279	7/25/2017	7/9/2019	Granted	CITRIX SYSTEMS, INC.
METHOD TO SET UP AND TEAR DOWN CLOUD ENVIRONMENTS BASED ON A SCHEDULE OBTAINED FROM ONE OR MORE HOSTED CALENDARS	15/654968	10459758	7/20/2017	10/29/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PRIORITIZING MESSAGES FOR CONVERSION FROM TEXT TO SPEECH BASED ON PREDICTIVE USER BEHAVIOR	15/654525	10425373	7/19/2017	9/24/2019	Granted	CITRIX SYSTEMS, INC.
METHOD FOR MANAGING SESSIONS USING WEB SOCKETS	15/654522	10686884	7/19/2017	6/16/2020	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR SYNTHESIZING RESOURCE TEMPLATES USING COMPOSABLE PARTS	15/654517	10742525	7/19/2017	8/11/2020	Granted	CITRIX SYSTEMS, INC.
CLOUD TO ON-PREMISES DEBUG SERVICE ROUTING	15/653187	10447811	7/18/2017	10/15/2019	Granted	CITRIX SYSTEMS, INC.
CLOUD TO ON-PREMISES WINDOWS REGISTRY SETTINGS	15/652937	10853091	7/18/2017	12/1/2020	Granted	CITRIX SYSTEMS, INC.
MULTI-SERVICE API CONTROLLER GATEWAY	15/652902	10454886	7/18/2017	10/22/2019	Granted	CITRIX SYSTEMS, INC.
TYPE SAFE SECURE LOGGING	15/650371	10255157	7/14/2017	4/9/2019	Granted	CITRIX SYSTEMS, INC.
NORMALIZING CLOUD RESOURCE INTERACTION FOR A SUITE OF MULTI-TENANT PRODUCTS ACROSS DISPARATE OBJECTS AND ACTIONS COMING FROM DIFFERENT CLOUD SERVICES	15/650137	10540216	7/14/2017	1/21/2020	Granted	CITRIX SYSTEMS, INC.
GRAPHICAL RENDERING USING MULTIPLE GRAPHICS PROCESSORS	15/647626	10699364	7/12/2017	6/30/2020	Granted	CITRIX SYSTEMS, INC.
MICRO VPN TUNNELING FOR MOBILE PLATFORMS	15/646141	9954664	7/11/2017	4/24/2018	Granted	CITRIX SYSTEMS, INC.
APPLICATION AND NETWORK AWARE ADAPTIVE COMPRESSION FOR BETTER QOE OF LATENCY SENSITIVE APPLICATIONS	15/643268	10728163	7/6/2017	7/28/2020	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHOD FOR SSL OPTIMIZATION FOR AN SSL PROXY	15/643263	10567348	7/6/2017	2/18/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR UNINSTALLING OR UPGRADING SOFTWARE IF PACKAGE CACHE IS REMOVED OR CORRUPTED	15/643230	10365910	7/6/2017	7/30/2019	Granted	CITRIX SYSTEMS, INC.
OPTIMIZATIONS AND ENHANCEMENTS OF APPLICATION VIRTUALIZATION LAYERS	15/637089	9959136	6/29/2017	5/1/2018	Granted	CITRIX SYSTEMS, INC.
COMPUTER SYSTEM PROVIDING VIRTUAL COMPUTING SESSION LICENSE DISTRIBUTION FEATURES AND RELATED METHODS	15/636861	10949505	6/29/2017	3/16/2021	Granted	CITRIX SYSTEMS, INC.
FACILITATING COMMUNICATION BETWEEN MOBILE APPLICATIONS	15/634193	10346622	6/27/2017	7/9/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF SHARING A DATABASE ACROSS MULTIPLE DEPLOYMENTS AND SERVICES	15/628833	10776369	6/21/2017	9/15/2020	Granted	CITRIX SYSTEMS, INC.
NORMALIZING IDENTITY API CALLS FOR A SUITE OF MULTI-TENANT PRODUCTS ACROSS DISPARATE MULTI-TENANT AND SINGLE-TENANT IDENTITY DIRECTORIES	15/628807	10706138	6/21/2017	7/7/2020	Granted	CITRIX SYSTEMS, INC.
CERTIFICATE PINNING IN HIGHLY SECURE NETWORK ENVIRONMENTS USING PUBLIC KEY CERTIFICATES	15/628107	10587605	6/20/2017	3/10/2020	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
OBTAINED FROM A DHCP (DYNAMIC HOST CONFIGURATION PROTOCOL) SERVER						
SECURELY ENTERING CREDENTIALS VIA HEAD-MOUNTED DISPLAY DEVICE	15/627958	10839064	6/20/2017	11/17/2020	Granted	CITRIX SYSTEMS, INC.
OPTIMIZING CACHING OF DATA IN A NETWORK OF NODES USING A DATA MAPPING TABLE BY STORING DATA REQUESTED AT A CACHE LOCATION INTERNAL TO A SERVER NODE AND UPDATING THE MAPPING TABLE AT A SHARED CACHE EXTERNAL TO THE SERVER NODE	15/627950	10721719	6/20/2017	7/21/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PREVENTING SERVICE DISRUPTION DURING SOFTWARE UPDATES	15/619052	10191732	6/9/2017	1/29/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR DISPLAYING CUSTOMIZED USER GUIDES IN A VIRTUAL CLIENT APPLICATION	15/608144	10949222	5/30/2017	3/16/2021	Granted	CITRIX SYSTEMS, INC.
AVAILABILITY OF DEVICES BASED ON LOCATION	15/605199	10558407	5/25/2017	2/11/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR RENDERING A SECURE DOCUMENT WITH A TEXT SELECTION CAPABILITY	15/602613	10791240	5/23/2017	9/29/2020	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR PROVISIONING NETWORK AUTOMATION BY LOGICALLY SEPARATING L2-L3 ENTITIES FROM L4-L7 ENTITIES USING A SOFTWARE DEFINED NETWORK (SDN) CONTROLLER	15/601476	10455053	5/22/2017	10/22/2019	Granted	CITRIX SYSTEMS, INC.
SCOPED VIEW OF CLOUD CONTROL PLANE FOR DEVELOPMENT OF NEW SERVICES	15/600894	10382293	5/22/2017	8/13/2019	Granted	CITRIX SYSTEMS, INC.
ADAPTIVE SESSION RELIABILITY OVER MULTIPLE TRANSPORTS	15/598912	10582022	5/18/2017	3/3/2020	Granted	CITRIX SYSTEMS, INC.
BULK LOADING MULTIPLE HIERARCHICAL LEVELS OF RELATIONAL DATA TO A DATABASE	15/598759	10503754	5/18/2017	12/10/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ENCODING ADDITIONAL AUTHENTICATION DATA INTO AN ACTIVE DIRECTORY SECURITY IDENTIFIER	15/596228	10897462	5/16/2017	1/19/2021	Granted	CITRIX SYSTEMS, INC.
DATA MIGRATION FOR A SHARED DATABASE	15/595885	10824511	5/15/2017	11/3/2020	Granted	CITRIX SYSTEMS, INC.
OPTIMIZING WEB APPLICATIONS USING A RENDERING ENGINE	15/595026	10567537	5/15/2017	2/18/2020	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
UPGRADE/DOWNTIME SCHEDULING USING END USER SESSION LAUNCH DATA	15/594892	10721130	5/15/2017	7/21/2020	Granted	CITRIX SYSTEMS, INC.
LIVE ROLLBACK FOR A COMPUTING ENVIRONMENT	15/583975	10379967	5/1/2017	8/13/2019	Granted	CITRIX SYSTEMS, INC.
CLOUD-BASED DISTRIBUTED HEALTHCARE SYSTEM WITH BIOMETRIC DEVICES AND ASSOCIATED METHODS	15/581696	11107561	4/28/2017	8/31/2021	Granted	CITRIX SYSTEMS, INC.
DETECTING OUTLIERS IN SERVER TRANSACTION TIME AS A FORM OF TIME SERIES DATA	15/496871	10706028	4/25/2017	7/7/2020	Granted	CITRIX SYSTEMS, INC.
DETECTING UNEVEN LOAD BALANCING THROUGH MULTI-LEVEL OUTLIER DETECTION	15/496675	11165856	4/25/2017	11/2/2021	Granted	CITRIX SYSTEMS, INC.
MEDIA SUPPORT IN SECURE MOBILE APPLICATIONS	15/496102	9979764	4/25/2017	5/22/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR REDIRECT HANDLING	15/490529	10671622	4/18/2017	6/2/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ENCODING THE CORE IDENTIFIER IN THE SESSION IDENTIFIER	15/486967	9906556	4/13/2017	2/27/2018	Granted	CITRIX SYSTEMS, INC.
USING DERIVED CREDENTIALS FOR ENROLLMENT WITH ENTERPRISE	15/483076	10285056	4/10/2017	5/7/2019	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
MOBILE DEVICE MANAGEMENT SERVICES						
IDENTITY MANAGEMENT CONNECTING PRINCIPAL IDENTITIES TO ALIAS IDENTITIES HAVING AUTHORIZATION SCOPES	15/482904	10440024	4/10/2017	10/8/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SECURELY AND TRANSPARENTLY PROXYING SAAS APPLICATIONS THROUGH A CLOUD-HOSTED OR ON-PREMISE NETWORK GATEWAY FOR ENHANCED SECURITY AND VISIBILITY	15/482423	10778684	4/7/2017	9/15/2020	Granted	CITRIX SYSTEMS, INC.
ENFORCING UNIQUENESS OF PROPERTY-VALUE PAIRS IN A SCHEMALESS DATA STORE	15/477419	10579612	4/3/2017	3/3/2020	Granted	CITRIX SYSTEMS, INC.
MAINTAINING A SESSION ACROSS MULTIPLE WEB APPLICATIONS	15/472872	11050832	3/29/2017	6/29/2021	Granted	CITRIX SYSTEMS, INC.
VIRTUAL BROWSER INTEGRATION	15/472798	10334075	3/29/2017	6/25/2019	Granted	CITRIX SYSTEMS, INC.
DYNAMIC ACCESS TO HOSTED APPLICATIONS	15/472685	10595202	3/29/2017	3/17/2020	Granted	CITRIX SYSTEMS, INC.
SEGREGATION OF PROTECTED RESOURCES FROM NETWORK FRONTEND	15/470359	10587625	3/27/2017	3/10/2020	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
PROVIDING A NATIVE DESKTOP USING CLOUD-SYNCHRONIZED DATA	15/470072	10218778	3/27/2017	2/26/2019	Granted	CITRIX SYSTEMS, INC.
METHOD FOR DNS RESPONSE REORDERING BASED ON PATH QUALITY AND CONNECTION PRIORITY FOR BETTER QOS	15/466151	10728206	3/22/2017	7/28/2020	Granted	CITRIX SYSTEMS, INC.
METHOD TO REMAP HIGH PRIORITY CONNECTION WITH LARGE CONGESTION WINDOW TO HIGH LATENCY LINK TO ACHIEVE BETTER PERFORMANCE	15/465023	10050884	3/21/2017	8/14/2018	Granted	CITRIX SYSTEMS, INC.
AUTO TUNING OF HYBRID WAN LINKS BY ADAPTIVE DUPLICATION OF PACKETS ON ALTERNATE LINKS	15/463635	10367712	3/20/2017	7/30/2019	Granted	CITRIX SYSTEMS, INC.
COMPUTER-IMPLEMENTED METHODS AND SYSTEMS FOR DETERMINING APPLICATION MATCHING STATUS	15/463300	10275336	3/20/2017	4/30/2019	Granted	CITRIX SYSTEMS, INC.
INCREASING QOS THROUGHPUT AND EFFICIENCY THROUGH LAZY BYTE BATCHING	15/462524	10567285	3/17/2017	2/18/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR QUALITY OF EXPERIENCE FOR INTERACTIVE APPLICATION IN HYBRID WAN	15/459890	10511708	3/15/2017	12/17/2019	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SHARED SECRET VAULT FOR APPLICATIONS WITH SINGLE SIGN ON	15/455751	10049224	3/10/2017	8/14/2018	Granted	CITRIX SYSTEMS, INC.
UBIQUITOUS COLLABORATION IN MANAGED APPLICATIONS	15/455269	10826761	3/10/2017	11/3/2020	Granted	CITRIX SYSTEMS, INC.
INCREASING CAPACITY IN A TOPIC-SUBSCRIPTION MESSAGING SYSTEM	15/454486	10439963	3/9/2017	10/8/2019	Granted	CITRIX SYSTEMS, INC.
CONTROLLING A LOCAL APPLICATION RUNNING ON A USER DEVICE THAT DISPLAYS A TOUCHSCREEN IMAGE ON A TOUCHSCREEN VIA MOUSE INPUT FROM EXTERNAL ELECTRONIC EQUIPMENT	15/453499	10466811	3/8/2017	11/5/2019	Granted	CITRIX SYSTEMS, INC.
VIRTUAL PRIVATE NETWORKING BASED ON PEER-TO-PEER COMMUNICATION	15/450654	10362612	3/6/2017	7/23/2019	Granted	CITRIX SYSTEMS, INC.
PROTECTING CLIENTS FROM OPEN REDIRECT SECURITY VULNERABILITIES IN WEB APPLICATIONS	15/447954	10348701	3/2/2017	7/9/2019	Granted	CITRIX SYSTEMS, INC.
ASSIGNING MONITORING RESPONSIBILITIES IN DISTRIBUTED SYSTEMS USING OPTIMISTIC CONCURRENCY	15/444999	10885014	2/28/2017	1/5/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING FINE GRAINED	15/443835	10320696	2/27/2017	6/11/2019	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
CONTROL OVER MSS VALUES OF TRANSPORT LAYER CONNECTIONS						
COMPUTER SYSTEM PROVIDING CLOUD-BASED HEALTH MONITORING FEATURES AND RELATED METHODS	15/430759	10587459	2/13/2017	3/10/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DATABASE PROXY REQUEST SWITCHING	15/427775	10726029	2/8/2017	7/28/2020	Granted	CITRIX SYSTEMS, INC.
CONTROLLING MOBILE DEVICE ACCESS TO SECURE DATA	15/422761	9858428	2/2/2017	1/2/2018	Granted	CITRIX SYSTEMS, INC.
COMPUTER SYSTEM PROVIDING CLOUD-BASED SESSION PRELAUNCH FEATURES AND RELATED METHODS	15/418872	10860342	1/30/2017	12/8/2020	Granted	CITRIX SYSTEMS, INC.
COMPUTER PROCESSING SYSTEM WITH RESOURCE OPTIMIZATION AND ASSOCIATED METHODS	15/416090	10528387	1/26/2017	1/7/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR PROVIDING SEAMLESS THIN CLIENT CONVERSION	15/416080	10228980	1/26/2017	3/12/2019	Granted	CITRIX SYSTEMS, INC.
DNS APPLICATION SERVER	15/412310	9992157	1/23/2017	6/5/2018	Granted	CITRIX SYSTEMS, INC.
SECURE DEVICE NOTIFICATIONS FROM REMOTE APPLICATIONS	15/406976	10715510	1/16/2017	7/14/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO RUN USER SPACE NETWORK STACK	15/406264	10530747	1/13/2017	1/7/2020	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
INSIDE DOCKER CONTAINER WHILE BYPASSING CONTAINER LINUX NETWORK STACK						
CONTINUOUS UPTIME OF GUEST VIRTUAL MACHINES DURING UPGRADE OF A VIRTUALIZATION HOST DEVICE	15/405461	10866824	1/13/2017	12/15/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR IMPROVING THE PERFORMANCE OF A COMPUTER NETWORK USING MULTIPLEXED APPLICATION LAYER STREAMS OF NETWORK TRAFFIC	15/403690	10375212	1/11/2017	8/6/2019	Granted	CITRIX SYSTEMS, INC.
LEARNING TECHNIQUE FOR QOS BASED CLASSIFICATION AND PRIORITIZATION OF SAAS APPLICATIONS	15/401413	10757161	1/9/2017	8/25/2020	Granted	CITRIX SYSTEMS, INC.
REMOTE ASSISTANCE FOR MANAGED MOBILE DEVICES	15/386609	10417020	12/21/2016	9/17/2019	Granted	CITRIX SYSTEMS, INC.
SECURE ACCESS TO ON-PREMISES WEB SERVICES FROM MULTI-TENANT CLOUD SERVICES	15/368876	10826905	12/5/2016	11/3/2020	Granted	CITRIX SYSTEMS, INC.
CONNECTIVITY BETWEEN CLOUD-HOSTED SYSTEMS AND ON-PREMISES ENTERPRISE RESOURCES	15/358806	10187356	11/22/2016	1/22/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PERFORMING LOAD BALANCING	15/358340	10057735	11/22/2016	8/21/2018	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
AND MESSAGE ROUTING FOR SHORT MESSAGE PEER TO PEER PROTOCOL						
MANAGEMENT OF UNMANAGED USER ACCOUNTS AND TASKS IN A MULTI-ACCOUNT MOBILE APPLICATION	15/357363	10713087	11/21/2016	7/14/2020	Granted	CITRIX SYSTEMS, INC.
MOBILE DEVICE USING SHARED DIGITAL CERTIFICATE FOR DIFFERENT MANAGED ENTERPRISE APPLICATIONS AND RELATED METHODS	15/356827	10033722	11/21/2016	7/24/2018	Granted	CITRIX SYSTEMS, INC.
MULTI-PIXEL CACHING SCHEME FOR LOSSLESS ENCODING	15/353534	10523956	11/16/2016	12/31/2019	Granted	CITRIX SYSTEMS, INC.
DELIVERING AN IMMERSIVE REMOTE DESKTOP	15/352748	10379881	11/16/2016	8/13/2019	Granted	CITRIX SYSTEMS, INC.
PROVIDING VIRTUALIZED PRIVATE NETWORK TUNNELS	15/347247	9973489	11/9/2016	5/15/2018	Granted	CITRIX SYSTEMS, INC.
MULTISCREEN SECURE CONTENT ACCESS	15/335952	9846783	10/27/2016	12/19/2017	Granted	CITRIX SYSTEMS, INC.
SPEECH RECOGNITION SUPPORT FOR REMOTE APPLICATIONS AND DESKTOPS	15/332175	10579219	10/24/2016	3/3/2020	Granted	CITRIX SYSTEMS, INC.
TEMPLATE-BASED DECLARATIVE AND COMPOSABLE CONFIGURATION OF NETWORK FUNCTIONS	15/297023	10419311	10/18/2016	9/17/2019	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR DETERMINING NETWORK CONFIGURATIONS USING HISTORICAL REAL-TIME NETWORK METRICS DATA	15/295738	10116521	10/17/2016	10/30/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR EXECUTING CRYPTOGRAPHIC OPERATIONS ACROSS DIFFERENT TYPES OF PROCESSING HARDWARE	15/289472	10520110	10/10/2016	12/31/2019	Granted	CITRIX SYSTEMS, INC.
MAINTAINING RESOURCE AVAILABILITY DURING MAINTENANCE OPERATIONS	15/286835	9838249	10/6/2016	12/5/2017	Granted	CITRIX SYSTEMS, INC.
MAINTAINING RESOURCE AVAILABILITY DURING MAINTENANCE OPERATIONS	15/286731	9819538	10/6/2016	11/14/2017	Granted	CITRIX SYSTEMS, INC.
REMOTE COMPUTING SYSTEM PROVIDING MALICIOUS FILE DETECTION AND MITIGATION FEATURES FOR VIRTUAL MACHINES	15/268730	10382456	9/19/2016	8/13/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR QUALITY OF SERVICE REPRIORITIZATION OF COMPRESSED TRAFFIC	15/262773	10142243	9/12/2016	11/27/2018	Granted	CITRIX SYSTEMS, INC.
SELECTING AN INSTANCE OF A RESOURCE USING NETWORK ROUTABILITY INFORMATION	15/259826	10148793	9/8/2016	12/4/2018	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
NETWORK ROUTING USING DYNAMIC VIRTUAL PATHS IN AN OVERLAY NETWORK	15/259285	10153964	9/8/2016	12/11/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING A SINGLE CLICK ACCESS TO ENTERPRISE, SAAS AND CLOUD HOSTED APPLICATION	15/255640	10050966	9/2/2016	8/14/2018	Granted	CITRIX SYSTEMS, INC.
HIGH-QUALITY ADAPTIVE BITRATE VIDEO THROUGH MULTIPLE LINKS	15/252888	10530683	8/31/2016	1/7/2020	Granted	CITRIX SYSTEMS, INC.
NETWORK ROUTING THROUGH AN OVERLAY NETWORK	15/252821	10122627	8/31/2016	11/6/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO EARLY DETECT LINK STATUS OF MULTIPLE PATHS THROUGH AN EXPLICIT CONGESTION NOTIFICATION BASED PROXY	15/251807	10104001	8/30/2016	10/16/2018	Granted	CITRIX SYSTEMS, INC.
TRACKING AND MANAGING VIRTUAL DESKTOPS USING SIGNED TOKENS	15/245564	10331882	8/24/2016	6/25/2019	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR PROVIDING A CONSISTENT PROFILE TO OVERLAPPING USER SESSIONS	15/244823	10225363	8/23/2016	3/5/2019	Granted	CITRIX SYSTEMS, INC.
ENCODER WITH IMAGE FILTERING AND ASSOCIATED METHODS	15/234336	10140728	8/11/2016	11/27/2018	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
COMPUTER NETWORK PROVIDING SECURE MOBILE DEVICE ENROLLMENT FEATURES AND RELATED METHODS	15/223206	10397778	7/29/2016	8/27/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR CONTROLLING INTERNET OF THINGS DEVICES USING NAMESPACES	15/221907	10887397	7/28/2016	1/5/2021	Granted	CITRIX SYSTEMS, INC.
DISPLAY MANAGEMENT FOR NATIVE USER EXPERIENCES	15/215175	10761692	7/20/2016	9/1/2020	Granted	CITRIX SYSTEMS, INC.
HIGH-PERFORMANCE QUALITY-OF-SERVICE PACKET SCHEDULING FOR MULTIPLE PACKET PROCESSING ENGINES	15/207080	10084711	7/11/2016	9/25/2018	Granted	CITRIX SYSTEMS, INC.
INTERNET INFRASTRUCTURE SURVEY	15/199592	10397178	6/30/2016	8/27/2019	Granted	CITRIX SYSTEMS, INC.
VIRTUAL SMART CARDS WITH AUDIT CAPABILITY	15/196702	9973498	6/29/2016	5/15/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MEASURING ROUND TRIP TIME IN NETWORK DEVICES BETWEEN THE DEVICE AND AN ENDPOINT	15/195112	10666534	6/28/2016	5/26/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR NETWORK CONTROLLED ACCESS OF RESOURCES	15/191900	10165055	6/24/2016	12/25/2018	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
PROVIDING AN ENTERPRISE APPLICATION STORE	15/189197	9948657	6/22/2016	4/17/2018	Granted	CITRIX SYSTEMS, INC.
BROWSER PLUG-IN FOR SECURE WEB ACCESS	15/161540	10356621	5/23/2016	7/16/2019	Granted	CITRIX SYSTEMS, INC.
USING A HARDWARE MOUSE TO OPERATE A LOCAL APPLICATION RUNNING ON A MOBILE DEVICE	15/160047	10394346	5/20/2016	8/27/2019	Granted	CITRIX SYSTEMS, INC.
COMPUTING DEVICE FOR OPERATING A MACHINE SESSION WITH PERSISTENT READ CACHE AND NON-PERSISTENT WRITE CACHE AND RELATED METHODS	15/159900	10185575	5/20/2016	1/22/2019	Granted	CITRIX SYSTEMS, INC.
ADDING AND REMOVING VIRTUAL DISKS REMOTELY TO A STREAMING MACHINE	15/158913	10506012	5/19/2016	12/10/2019	Granted	CITRIX SYSTEMS, INC.
SEMI-AUTOMATED FIELD PLACEMENT FOR ELECTRONIC FORMS	15/158249	10546053	5/18/2016	1/28/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR A UNIQUE MECHANISM OF PROVIDING `CLIENTLESS SSLVPN` ACCESS TO A VARIETY OF WEB-APPLICATIONS THROUGH A SSLVPN GATEWAY	15/154227	10484336	5/13/2016	11/19/2019	Granted	CITRIX SYSTEMS, INC.
MULTIFACTOR CONTEXTUAL AUTHENTICATION AND ENTROPY	15/150558	10122709	5/10/2016	11/6/2018	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
FROM DEVICE OR DEVICE INPUT OR GESTURE AUTHENTICATION						
PASSWORD ENCRYPTION FOR HYBRID CLOUD SERVICES	15/149707	10432592	5/9/2016	10/1/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PERFORMING TARGETED SCANNING OF A TARGET RANGE OF IP ADDRESSES TO VERIFY SECURITY CERTIFICATES	15/148425	10129239	5/6/2016	11/13/2018	Granted	CITRIX SYSTEMS, INC.
COMBINING INTERNET ROUTING INFORMATION WITH ACCESS LOGS TO ASSESS RISK OF USER EXPOSURE	15/148400	10284595	5/6/2016	5/7/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR IMPROVING SECURITY OF SECURE SOCKET LAYER (SSL) COMMUNICATIONS	15/148374	10218734	5/6/2016	2/26/2019	Granted	CITRIX SYSTEMS, INC.
CROSS-DOMAIN BROKERING PROTOCOL CLOUD PROXY	15/146131	10432746	5/4/2016	10/1/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO CHOOSE AN OPTIMAL PATH FROM MULTIPLE HIGH LATENCY LINKS	15/145148	10305807	5/3/2016	5/28/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR SERVICE CHAIN LOAD BALANCING	15/143181	10237187	4/29/2016	3/19/2019	Granted	CITRIX SYSTEMS, INC.
PROVIDING A MANAGED BROWSER	15/140683	10097584	4/28/2016	10/9/2018	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DYNAMIC BLOCK-LEVEL INDEXING FOR CACHE WITH OVERFLOW	15/136253	9886388	4/22/2016	2/6/2018	Granted	CITRIX SYSTEMS, INC.
ROBUST SUSPENSION AND RESUMPTION OF DESKTOP VIRTUALIZATION	15/076805	10797977	3/22/2016	10/6/2020	Granted	CITRIX SYSTEMS, INC.
ENCRYPTED PASSWORD TRANSPORT ACROSS UNTRUSTED CLOUD NETWORK	15/062510	9860064	3/7/2016	1/2/2018	Granted	CITRIX SYSTEMS, INC.
APPLICATION WITH MULTIPLE OPERATION MODES	15/057314	10476885	3/1/2016	11/12/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ALLOCATION OF CLASSES OF SERVICE TO NETWORK CONNECTIONS CORRESPONDING TO VIRTUAL CHANNELS	15/054444	9813346	2/26/2016	11/7/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ROUTING NETWORK PACKETS BETWEEN MULTI-CORE INTERMEDIARIES	15/048469	10333846	2/19/2016	6/25/2019	Granted	CITRIX SYSTEMS, INC.
RENDERING BASED ON A DOCUMENT OBJECT MODEL	15/045558	10769351	2/17/2016	9/8/2020	Granted	CITRIX SYSTEMS, INC.
CERTIFICATE PINNING USING A DIRECTORY SERVICE	15/019118	10091006	2/9/2016	10/2/2018	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEM AND METHOD FOR CLOUD AWARE APPLICATION DELIVERY CONTROLLER	15/015507	10079877	2/4/2016	9/18/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD OF PROVIDING COMPRESSION TECHNIQUE FOR JITTER SENSITIVE APPLICATION THROUGH MULTIPLE NETWORK LINKS	15/012488	9819591	2/1/2016	11/14/2017	Granted	CITRIX SYSTEMS, INC.
VIRTUAL DESKTOP ACCESS USING WIRELESS DEVICES	15/011924	9591081	2/1/2016	3/7/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD OF PRE-ESTABLISHING SSL SESSION CONNECTIONS FOR FASTER SSL CONNECTION ESTABLISHMENT	15/010692	10250637	1/29/2016	4/2/2019	Granted	CITRIX SYSTEMS, INC.
ASSOCIATING VIRTUAL MACHINES ON A SERVER COMPUTER WITH PARTICULAR USERS ON AN EXCLUSIVE BASIS	15/008931	9747125	1/28/2016	8/29/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR TRAP MONITORING IN MULTI-CORE AND CLUSTER SYSTEMS	15/006848	9699061	1/26/2016	7/4/2017	Granted	CITRIX SYSTEMS, INC.
VALIDATING THE IDENTITY OF AN APPLICATION FOR APPLICATION MANAGEMENT	15/006348	9838398	1/26/2016	12/5/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD OF PROVIDING INCREASED DATA	15/004677	10404603	1/22/2016	9/3/2019	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
OPTIMIZATION BASED ON TRAFFIC PRIORITY ON CONNECTION						
SYSTEM AND METHOD FOR PROVIDING IMPROVED OPTIMIZATION FOR SECURE SESSION CONNECTIONS	15/004598	10447658	1/22/2016	10/15/2019	Granted	CITRIX SYSTEMS, INC.
DYNAMIC CONFIGURATION IN CLOUD COMPUTING ENVIRONMENTS	14/993806	10263842	1/12/2016	4/16/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF QOS FOR AND SINGLE STREAM ICA	14/992751	10164895	1/11/2016	12/25/2018	Granted	CITRIX SYSTEMS, INC.
SECURING NETWORK ACTIVITY MANAGED BY OPERATING SYSTEMS	14/986971	10277578	1/4/2016	4/30/2019	Granted	CITRIX SYSTEMS, INC.
SHARED SECRET VAULT FOR APPLICATIONS WITH SINGLE SIGN ON	14/983961	9626525	12/30/2015	4/18/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CACHING OF SQL RESPONSES USING INTEGRATED CACHING	14/978830	10095739	12/22/2015	10/9/2018	Granted	CITRIX SYSTEMS, INC.
CONTROLLING INCOMING DATA PROCESSING REQUESTS	14/967958	10225263	12/14/2015	3/5/2019	Granted	CITRIX SYSTEMS, INC.
OPTIMIZATIONS AND ENHANCEMENTS OF APPLICATION VIRTUALIZATION LAYERS	14/963837	9753759	12/9/2015	9/5/2017	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
CONTENT REPLACEMENT AND REFRESH POLICY IMPLEMENTATION FOR A CONTENT DISTRIBUTION NETWORK	14/950896	9769277	11/24/2015	9/19/2017	Granted	CITRIX SYSTEMS, INC.
REMOTE-SESSION KEYBOARD AND MOUSE INPUT VIA GENERIC DEVICE REDIRECTION	14/950400	9563581	11/24/2015	2/7/2017	Granted	CITRIX SYSTEMS, INC.
NETWORK OFFERING IN CLOUD COMPUTING ENVIRONMENT	14/946235	10135679	11/19/2015	11/20/2018	Granted	CITRIX SYSTEMS, INC.
FRAMEWORK FOR EXPLAINING ANOMALIES IN ACCESSING WEB APPLICATIONS	14/928217	10116674	10/30/2015	10/30/2018	Granted	CITRIX SYSTEMS, INC.
METHOD FOR PACKET SCHEDULING USING MULTIPLE PACKET SCHEDULERS	14/927867	9871610	10/30/2015	1/16/2018	Granted	CITRIX SYSTEMS, INC.
EFFICIENT MANAGEMENT OF VIRTUALIZED SESSION RESOURCES	14/927692	10097437	10/30/2015	10/9/2018	Granted	CITRIX SYSTEMS, INC.
METHOD FOR RESUMPTION OF AN APPLICATION SESSION WITH A VERY DYNAMIC AND VERY LARGE STATE IN A STANDBY INTERMEDIARY DEVICE WHEN THE PRIMARY DEVICE FAILS	14/927600	10785315	10/30/2015	9/22/2020	Granted	CITRIX SYSTEMS, INC.
FEATURE ENGINEERING FOR WEB-BASED ANOMALY DETECTION	14/927580	10476893	10/30/2015	11/12/2019	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
ANOMALY DETECTION WITH K-MEANS CLUSTERING AND ARTIFICIAL OUTLIER INJECTION	14/927553	10318886	10/30/2015	6/11/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR CUSTOMIZING PACKET PROCESSING ORDER IN NETWORKING DEVICES	14/925424	10079695	10/28/2015	9/18/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR POLICY DRIVEN FINE GRAIN VALIDATION OF SERVERS' SSL CERTIFICATE FOR CLIENTLESS SSLVPN ACCESS	14/925410	9948633	10/28/2015	4/17/2018	Granted	CITRIX SYSTEMS, INC.
INPUT DEVICES IN HIGH LATENCY NETWORKS	14/923098	9826019	10/26/2015	11/21/2017	Granted	CITRIX SYSTEMS, INC.
REVERSE SEAMLESS INTEGRATION BETWEEN LOCAL AND REMOTE COMPUTING ENVIRONMENTS	14/922710	10200453	10/26/2015	2/5/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR RATE-BASED PACKET TRANSMISSION OVER A NETWORK	14/919317	9992120	10/21/2015	6/5/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD OF PROVIDING IMPROVED THROUGHPUT CONTROL UNDER DELAY-BASED CONGESTION SITUATION IN A NETWORK	14/919205	9979653	10/21/2015	5/22/2018	Granted	CITRIX SYSTEMS, INC.
BROWSER SERVER SESSION TRANSFER	14/886243	11082499	10/19/2015	8/3/2021	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
MULTI-TENANT MULTI-SESSION CATALOGS WITH MACHINE-LEVEL ISOLATION	14/886217	10498807	10/19/2015	12/3/2019	Granted	CITRIX SYSTEMS, INC.
ACTIVE AND PASSIVE PERSONALIZATION TECHNIQUES	14/881616	9697288	10/13/2015	7/4/2017	Granted	CITRIX SYSTEMS, INC.
APPLICATION WRAPPING FOR APPLICATION MANAGEMENT FRAMEWORK	14/876832	10908896	10/7/2015	2/2/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF EXTENDING ON PREMISE NETWORK INTO THE CLOUD	14/876363	10057084	10/6/2015	8/21/2018	Granted	CITRIX SYSTEMS, INC.
SECURE EXECUTION OF ENTERPRISE APPLICATIONS ON MOBILE DEVICES	14/875450	10044757	10/5/2015	8/7/2018	Granted	CITRIX SYSTEMS, INC.
FEDERATED FULL DOMAIN LOGON	14/870447	10122703	9/30/2015	11/6/2018	Granted	CITRIX SYSTEMS, INC.
FAST SMART CARD LOGON	14/870435	10021088	9/30/2015	7/10/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR IMPROVING EFFICIENCY OF SSL/TLS CONNECTIONS	14/867792	10367891	9/28/2015	7/30/2019	Granted	CITRIX SYSTEMS, INC.
USING DERIVED CREDENTIALS FOR ENROLLMENT WITH ENTERPRISE MOBILE DEVICE MANAGEMENT SERVICES	14/865376	9668136	9/25/2015	5/30/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO SUPPORT VXLAN IN PARTITION	14/862717	10361972	9/23/2015	7/23/2019	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0175

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
ENVIRONMENT WHERE A SINGLE SYSTEM ACTS AS MULTIPLE LOGICAL SYSTEMS TO SUPPORT MULTITENANCY						
FTP LOAD BALANCING SUPPORT FOR CLUSTER	14/862698	10200447	9/23/2015	2/5/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MONITORING AND MAINTAINING CONSISTENCY OF A CONFIGURATION	14/858068	9645835	9/18/2015	5/9/2017	Granted	CITRIX SYSTEMS, INC.
SECURING ENCRYPTED VIRTUAL HARD DISKS	14/855824	9690954	9/16/2015	6/27/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF ACHIEVING EQUAL DISTRIBUTION OF PACKETS IN A MULTICORE SYSTEM WHICH ACTS AS A TUNNEL END POINT	14/853134	9923818	9/14/2015	3/20/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ASSOCIATING MULTIPLE TRANSPORT LAYER HOPS BETWEEN CLIENTS AND SERVERS	14/846946	10021018	9/7/2015	7/10/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DYNAMIC ROUTING ON A SHARED IP ADDRESS	14/846945	10270687	9/7/2015	4/23/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEM FOR EARLY SYSTEM RESOURCE CONSTRAINT DETECTION AND RECOVERY	14/846417	10091124	9/4/2015	10/2/2018	Granted	CITRIX SYSTEMS, INC.

PATENT
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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
MULTIMEDIA REDIRECTION IN A VIRTUALIZED ENVIRONMENT USING A PROXY SERVER	14/840967	9571599	8/31/2015	2/14/2017	Granted	CITRIX SYSTEMS, INC.
METHOD AND APPARATUS FOR ACCESSING THIRD-PARTY RESOURCES	14/839748	9948610	8/28/2015	4/17/2018	Granted	CITRIX SYSTEMS, INC.
MANAGING CONNECTION FAILOVER IN A LOAD BALANCER	14/837659	9432449	8/27/2015	8/30/2016	Granted	CITRIX SYSTEMS, INC.
SECURED ACCESS TO RESOURCES USING A PROXY	14/833329	9509692	8/24/2015	11/29/2016	Granted	CITRIX SYSTEMS, INC.
OPTIMIZING REMOTE GRAPHICS DELIVERY AND PRESENTATION	14/830790	9900602	8/20/2015	2/20/2018	Granted	CITRIX SYSTEMS, INC.
TOUCH SUPPORT FOR REMOTED APPLICATIONS	14/823733	10817086	8/11/2015	10/27/2020	Granted	CITRIX SYSTEMS, INC.
CONTINUOUS MONITORING OF DATA SERVERS USING A SHADOWING PROXY	14/823268	9860149	8/11/2015	1/2/2018	Granted	CITRIX SYSTEMS, INC.
AVAILABILITY OF DEVICES BASED ON LOCATION	14/819644	9690525	8/6/2015	6/27/2017	Granted	CITRIX SYSTEMS, INC.
AUTONOMOUS SECURE PRINTING	14/819626	10133525	8/6/2015	11/20/2018	Granted	CITRIX SYSTEMS, INC.
VIRTUALIZING DEVICE MANAGEMENT SERVICES ON A MULTI-SESSION PLATFORM	14/816800	9813504	8/3/2015	11/7/2017	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
USER AND DEVICE AUTHENTICATION IN ENTERPRISE SYSTEMS	14/816000	9628448	8/1/2015	4/18/2017	Granted	CITRIX SYSTEMS, INC.
REDIRECTOR FOR SECURE WEB BROWSING	14/815066	10050934	7/31/2015	8/14/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING SPILLOVER LIMITS IN A MULTI-CORE SYSTEM	14/813567	10846136	7/30/2015	11/24/2020	Granted	CITRIX SYSTEMS, INC.
EFFICIENT USE OF IPSEC TUNNELS IN MULTI-PATH ENVIRONMENT	14/811695	10051000	7/28/2015	8/14/2018	Granted	CITRIX SYSTEMS, INC.
BLOCKING ROUTINE REDIRECTION	14/808601	10181030	7/24/2015	1/15/2019	Granted	CITRIX SYSTEMS, INC.
SHELL INTEGRATION FOR AN APPLICATION EXECUTING REMOTELY ON A SERVER	14/806740	9471335	7/23/2015	10/18/2016	Granted	CITRIX SYSTEMS, INC.
ANONYMOUS APPLICATION WRAPPING	14/804705	9942240	7/21/2015	4/10/2018	Granted	CITRIX SYSTEMS, INC.
PERFORMANCE OF A WRAPPED APPLICATION	14/800371	10073758	7/15/2015	9/11/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO SECURE A VIRTUAL APPLIANCE	14/789616	9584484	7/1/2015	2/28/2017	Granted	CITRIX SYSTEMS, INC.
VIRTUALIZATION LAYER FOR MOBILE APPLICATIONS	14/755703	10191723	6/30/2015	1/29/2019	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR FLEXIBLE, EXTENSIBLE AUTHENTICATION SUBSYSTEM THAT ENABLED ENHANCE SECURITY FOR APPLICATIONS	14/753636	10454974	6/29/2015	10/22/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROPAGATING HEALTH OF A CLUSTER NODE	14/753614	10127097	6/29/2015	11/13/2018	Granted	CITRIX SYSTEMS, INC.
WRAPPING UNMANAGED APPLICATIONS ON A MOBILE DEVICE	14/752132	9971585	6/26/2015	5/15/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF EMULATING A NIC FOR PACKET TRANSMISSION ON HARDWARE RSS UNAWARE NICS IN A MULTI-CORE SYSTEM	14/750615	10110493	6/25/2015	10/23/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR INTERMEDIARIES TO COMPRESS DATA COMMUNICATED VIA A REMOTE DISPLAY PROTOCOL	14/750036	9635143	6/25/2015	4/25/2017	Granted	CITRIX SYSTEMS, INC.
REMOTE RENDERING OF THREE-DIMENSIONAL IMAGES USING VIRTUAL MACHINES	14/748796	9367947	6/24/2015	6/14/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING A GUEST VIRTUAL MACHINE EXECUTING WITHIN A VIRTUALIZED ENVIRONMENT	14/746300	10686885	6/22/2015	6/16/2020	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SECURITY PROFILE MANAGEMENT IN A MACHINE-TO-MACHINE MESSAGING SYSTEM	14/743877	9578033	6/18/2015	2/21/2017	Granted	CITRIX SYSTEMS, INC.
RANGE-BASED DATA DEDUPLICATION USING A HASH TABLE WITH ENTRIES REPLACED BASED ON ADDRESS ALIGNMENT INFORMATION	14/743520	9921773	6/18/2015	3/20/2018	Granted	CITRIX SYSTEMS, INC.
MEDIA SUPPORT IN SECURE MOBILE APPLICATIONS	14/742811	9667411	6/18/2015	5/30/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEM FOR BANDWIDTH OPTIMIZATION WITH HIGH PRIORITY TRAFFIC AWARENESS AND CONTROL	14/742264	10158575	6/17/2015	12/18/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR SEAMLESS TCP CONNECTION HANDOFF	14/742254	10172028	6/17/2015	1/1/2019	Granted	CITRIX SYSTEMS, INC.
ENABLING USER ENTROPY ENCRYPTION IN NON-COMPLIANT MOBILE APPLICATIONS	14/735318	10367814	6/10/2015	7/30/2019	Granted	CITRIX SYSTEMS, INC.
WINDOW REGULATOR FOR IMPROVED PERFORMANCE IN A COMMUNICATIONS NETWORK	14/734468	9832679	6/9/2015	11/28/2017	Granted	CITRIX SYSTEMS, INC.
ENTERPRISE APPLICATION STORE FOR AN ORCHESTRATION	14/733490	9854063	6/8/2015	12/26/2017	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
FRAMEWORK FOR CONNECTED DEVICES						
SYSTEMS AND METHODS FOR A VPN ICA PROXY ON A MULTI-CORE SYSTEM	14/733280	9992167	6/8/2015	6/5/2018	Granted	CITRIX SYSTEMS, INC.
AUTONOMOUS COMPUTER SESSION CAPACITY ESTIMATION	14/727411	9998527	6/1/2015	6/12/2018	Granted	CITRIX SYSTEMS, INC.
IMAGE ANALYSIS AND MANAGEMENT	14/726854	9760724	6/1/2015	9/12/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR HTTP-BODY DOS ATTACK PREVENTION WITH ADAPTIVE TIMEOUT	14/721658	9432399	5/26/2015	8/30/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR RADE SERVICE ISOLATION	14/721328	9965622	5/26/2015	5/8/2018	Granted	CITRIX SYSTEMS, INC.
PROVIDING TESTING ENVIRONMENTS FOR SOFTWARE APPLICATIONS USING VIRTUALIZATION AND A NATIVE HARDWARE LAYER	14/718217	9910765	5/21/2015	3/6/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PERFORMING DUAL DNS LOOKUP TO DETECT PUBLIC VERSUS INTRANET	14/712960	10320740	5/15/2015	6/11/2019	Granted	CITRIX SYSTEMS, INC.
ENTERPRISE COMPUTING ENVIRONMENT WITH CONTINUOUS USER AUTHENTICATION	14/708707	9781090	5/11/2015	10/3/2017	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
CONDUCTING ONLINE MEETINGS WITH INTELLIGENT ENVIRONMENT CONFIGURATION	14/708690	9917867	5/11/2015	3/13/2018	Granted	CITRIX SYSTEMS, INC.
MICRO VPN TUNNELING FOR MOBILE PLATFORMS	14/708464	9735943	5/11/2015	8/15/2017	Granted	CITRIX SYSTEMS, INC.
AUTO DISCOVERY AND CONFIGURATION OF SERVICES IN A LOAD BALANCING APPLIANCE	14/707653	10101981	5/8/2015	10/16/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ANALYZING SOFTWARE COMPATIBILITY	14/704740	9916227	5/5/2015	3/13/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CONFIGURING A DEVICE VIA A SOFTWARE-DEFINED NETWORKING CONTROLLER	14/704400	10148496	5/5/2015	12/4/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR INTEGRATING A DEVICE WITH A SOFTWARE-DEFINED NETWORKING CONTROLLER	14/704388	9948505	5/5/2015	4/17/2018	Granted	CITRIX SYSTEMS, INC.
FACILITATING COMMUNICATION BETWEEN MOBILE APPLICATIONS	14/704075	9729520	5/5/2015	8/8/2017	Granted	CITRIX SYSTEMS, INC.
TASK COORDINATION IN DISTRIBUTED SYSTEMS	14/703074	10205760	5/4/2015	2/12/2019	Granted	CITRIX SYSTEMS, INC.
REMOTE ASSISTANCE FOR MANAGED MOBILE DEVICES	14/702954	9563445	5/4/2015	2/7/2017	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
POLICY CONFIGURATION MANAGEMENT CONSOLE	14/702842	9808078	5/4/2015	11/7/2017	Granted	CITRIX SYSTEMS, INC.
CLOCK ROLLBACK SECURITY	14/701561	10114945	5/1/2015	10/30/2018	Granted	CITRIX SYSTEMS, INC.
AUTONOMOUS PRIVATE KEY RECOVERY	14/699712	9729321	4/29/2015	8/8/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SR-IOV PASS-THRU VIA AN INTERMEDIARY DEVICE	14/697209	9600313	4/27/2015	3/21/2017	Granted	CITRIX SYSTEMS, INC.
SECURE IN-BAND SERVICE DETECTION	14/695980	11032379	4/24/2015	6/8/2021	Granted	CITRIX SYSTEMS, INC.
DETERMINING AND NAVIGATING TO A TARGET LOCATION	14/690594	9674669	4/20/2015	6/6/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SUPPORTING A SNMP REQUEST OVER A CLUSTER	14/689933	10015039	4/17/2015	7/3/2018	Granted	CITRIX SYSTEMS, INC.
AUTHENTICATION OF A CLIENT DEVICE BASED ON ENTROPY FROM A SERVER OR OTHER DEVICE	14/687737	9807086	4/15/2015	10/31/2017	Granted	CITRIX SYSTEMS, INC.
STORAGE ENCRYPTION	14/679363	9509501	4/6/2015	11/29/2016	Granted	CITRIX SYSTEMS, INC.
WRAPPING AN APPLICATION WITH FIELD-PROGRAMMABLE BUSINESS LOGIC	14/671351	9606774	3/27/2015	3/28/2017	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
EFFICIENT ENCODING OF COMPOSITED DISPLAY FRAMES	14/670283	9754385	3/26/2015	9/5/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ANALYZING NETWORK METRICS	14/668685	9722934	3/25/2015	8/1/2017	Granted	CITRIX SYSTEMS, INC.
SHELL INTEGRATION ON A MOBILE DEVICE FOR AN APPLICATION EXECUTING REMOTELY ON A SERVER	14/667812	10244039	3/25/2015	3/26/2019	Granted	CITRIX SYSTEMS, INC.
CREATING MULTIPLE DIAGNOSTIC VIRTUAL MACHINES TO MONITOR ALLOCATED RESOURCES OF A CLUSTER OF HYPERVISORS	14/660815	9563459	3/17/2015	2/7/2017	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR SECURELY TRANSMITTING VOLUMES INTO CLOUD	14/657760	9882825	3/13/2015	1/30/2018	Granted	CITRIX SYSTEMS, INC.
ENFORCING LICENSING POLICIES USING AN APPLICATION WRAPPER	14/657267	10198560	3/13/2015	2/5/2019	Granted	CITRIX SYSTEMS, INC.
USER-AGNOSTIC BACKEND STORAGE FOR CLOUD-BASED APPLICATIONS	14/644926	10262151	3/11/2015	4/16/2019	Granted	CITRIX SYSTEMS, INC.
SYNC AS A SERVICE FOR CLOUD-BASED APPLICATIONS	14/644909	10614041	3/11/2015	4/7/2020	Granted	CITRIX SYSTEMS, INC.
REAL-TIME PUSH NOTIFICATIONS FOR CLOUD-BASED APPLICATIONS	14/644892	10498777	3/11/2015	12/3/2019	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
COMPUTER-IMPLEMENTED METHODS AND SYSTEMS FOR DETERMINING APPLICATION MATCHING STATUS	14/643593	9600396	3/10/2015	3/21/2017	Granted	CITRIX SYSTEMS, INC.
MULTISCREEN SECURE CONTENT ACCESS	14/643049	9565176	3/10/2015	2/7/2017	Granted	CITRIX SYSTEMS, INC.
AUTHENTICATION MECHANISM FOR DOMAIN REDIRECTION OF A REPRESENTATIONAL STATE TRANSFER (REST)-COMPLIANT CLIENT	14/635683	9386006	3/2/2015	7/5/2016	Granted	CITRIX SYSTEMS, INC.
EXECUTING AN OPERATION OVER FILE REPOSITORIES LOCATED IN DIFFERENT AUTHENTICATION DOMAINS USING A REPRESENTATIONAL STATE TRANSFER (REST)-COMPLIANT CLIENT	14/635663	9485244	3/2/2015	11/1/2016	Granted	CITRIX SYSTEMS, INC.
ENABLING FILE ATTACHMENTS IN CALENDAR EVENTS	14/635166	11036919	3/2/2015	6/15/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR QUALITY OF SERVICE OF ICA PUBLISHED APPLICATIONS	14/634322	9602577	2/27/2015	3/21/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR NETWORK FILTERING IN VPN	14/634000	9467454	2/27/2015	10/11/2016	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEM FOR BANDWIDTH OPTIMIZATION WITH TRAFFIC PRIORITY DETERMINATION	14/632848	9985898	2/26/2015	5/29/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEM FOR BANDWIDTH OPTIMIZATION WITH INITIAL CONGESTION WINDOW DETERMINATION	14/632809	9929956	2/26/2015	3/27/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEM FOR DYNAMIC SELECTION AND APPLICATION OF TCP CONGESTION AVOIDANCE FLAVORS	14/632729	9826066	2/26/2015	11/21/2017	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR MAINTAINING STATE IN A VIRTUAL MACHINE WHEN DISCONNECTED FROM GRAPHICS HARDWARE	14/632618	9406099	2/26/2015	8/2/2016	Granted	CITRIX SYSTEMS, INC.
ENCRYPTION-BASED DATA ACCESS MANAGEMENT	14/632601	9805210	2/26/2015	10/31/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING ADAPTED MULTI-MONITOR TOPOLOGY SUPPORT IN A VIRTUALIZATION ENVIRONMENT	14/626755	9870192	2/19/2015	1/16/2018	Granted	CITRIX SYSTEMS, INC.
LOCATION ASSISTANCE IN A MACHINE TO MACHINE INSTANT MESSAGING SYSTEM	14/626562	9210534	2/19/2015	12/8/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEM UPDATES WITH PERSONAL VIRTUAL DISKS	14/626516	10019177	2/19/2015	7/10/2018	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR POLICY BASED INTEGRATION TO HORIZONTALLY DEPLOYED WAN OPTIMIZATION APPLIANCES	14/624300	9871853	2/17/2015	1/16/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR IDENTIFYING A PROCESSOR FROM A PLURALITY OF PROCESSORS TO PROVIDE SYMMETRICAL REQUEST AND RESPONSE PROCESSING	14/622480	9661094	2/13/2015	5/23/2017	Granted	CITRIX SYSTEMS, INC.
DETECTING CONTENT TYPES AND WINDOW REGIONS IN COMPOSITED DISPLAY FRAMES	14/614759	10114517	2/5/2015	10/30/2018	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR SECURELY TRANSMITTING VOLUMES INTO CLOUD	14/609033	9838371	1/29/2015	12/5/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PERFORMING LOAD BALANCING AND MESSAGE ROUTING FOR SHORT MESSAGE PEER TO PEER PROTOCOL	14/607854	9538345	1/28/2015	1/3/2017	Granted	CITRIX SYSTEMS, INC.
CONTROLLING MOBILE DEVICE ACCESS TO SECURE DATA	14/607593	9602474	1/28/2015	3/21/2017	Granted	CITRIX SYSTEMS, INC.
TECHNIQUES FOR SELECTING LIST ITEMS USING A SWIPING GESTURE	14/605178	10452229	1/26/2015	10/22/2019	Granted	CITRIX SYSTEMS, INC.
GESTURE MENU	14/603781	10168864	1/23/2015	1/1/2019	Granted	CITRIX SYSTEMS, INC.

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CONNECTION LEASING FOR HOSTED SERVICES	14/602629	9800669	1/22/2015	10/24/2017	Granted	CITRIX SYSTEMS, INC.
REVERSE SEAMLESS INTEGRATION BETWEEN LOCAL AND REMOTE COMPUTING ENVIRONMENTS	14/599588	9736221	1/19/2015	8/15/2017	Granted	CITRIX SYSTEMS, INC.
AUTOMATIC INTELLIGENT LOCAL DEVICE FRAUD DETECTION	14/598420	9959399	1/16/2015	5/1/2018	Granted	CITRIX SYSTEMS, INC.
LARGE SCALE BANDWIDTH MANAGEMENT OF IP FLOWS USING A HIERARCHY OF TRAFFIC SHAPING DEVICES	14/595070	9967197	1/12/2015	5/8/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR USING AN HTTP-AWARE CLIENT AGENT	14/594963	9948608	1/12/2015	4/17/2018	Granted	CITRIX SYSTEMS, INC.
METHODS, SYSTEMS, AND DEVICES FOR MOBILE DEVICE POWER MANAGEMENT	14/586454	10545557	12/30/2014	1/28/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND ALGORITHM FOR INTERFACING WITH A VIRTUALIZED COMPUTING SERVICE OVER A NETWORK USING A LIGHTWEIGHT CLIENT	14/579817	9183025	12/22/2014	11/10/2015	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR CONNECTING DEVICES TO APPLICATIONS AND DESKTOPS THAT ARE RECEIVING MAINTENANCE	14/571342	10348837	12/16/2014	7/9/2019	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHODS AND SYSTEMS FOR LOAD BALANCING USING FORECASTING AND OVERBOOKING TECHNIQUES	14/571081	9531796	12/15/2014	12/27/2016	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR ALLOCATING AND DE-ALLOCATING DELIVERY GROUPS ACROSS MULTIPLE SERVER FARMS	14/566553	9866496	12/10/2014	1/9/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING DOMAIN NAME SYSTEM SECURITY (DNSSEC)	14/563931	9363287	12/8/2014	6/7/2016	Granted	CITRIX SYSTEMS, INC.
COMPUTER SECURITY SYSTEM	14/563904	9781114	12/8/2014	10/3/2017	Granted	CITRIX SYSTEMS, INC.
DISRUPTING OFFLINE PASSWORD ATTACKS	14/561856	9237009	12/5/2014	1/12/2016	Granted	CITRIX SYSTEMS, INC.
LIVE ROLLBACK FOR A COMPUTING ENVIRONMENT	14/557317	9639432	12/1/2014	5/2/2017	Granted	CITRIX SYSTEMS, INC.
SECURITY AND RIGHTS MANAGEMENT IN A MACHINE-TO-MACHINE MESSAGING SYSTEM	14/550719	9094407	11/21/2014	7/28/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR INITIALIZATION AND LINK MANAGEMENT OF NICS IN A MULTI-CORE ENVIRONMENT	14/546743	9037754	11/18/2014	5/19/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR FINE GRAIN POLICY DRIVEN CLIENTLESS SSL VPN ACCESS	14/539681	9571456	11/12/2014	2/14/2017	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
PROVIDING VIRTUALIZED PRIVATE NETWORK TUNNELS	14/535597	9521117	11/7/2014	12/13/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PORT ALLOCATION	14/533737	10044612	11/5/2014	8/7/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PERFORMING SERVICE TAG SWITCHING IN AN APPLICATION DELIVERY CONTROLLER	14/533665	10069649	11/5/2014	9/4/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR BRIDGING A WAN ACCELERATOR WITH A SECURITY GATEWAY	14/522907	9210081	10/24/2014	12/8/2015	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR AUTOMATIC CONFIGURATION OF ALGORITHMS IN A SYSTEM BASED ON SELF AWARE ALGORITHMS	14/521869	9262151	10/23/2014	2/16/2016	Granted	CITRIX SYSTEMS, INC.
NETWORK POLICY IMPLEMENTATION FOR A MULTI-VIRTUAL MACHINE APPLIANCE WITHIN A VIRTUALIZATION ENVIRONMENT	14/517295	9344334	10/17/2014	5/17/2016	Granted	CITRIX SYSTEMS, INC.
PROVIDING ENHANCED APPLICATION INTEROPERABILITY	14/515646	10341270	10/16/2014	7/2/2019	Granted	CITRIX SYSTEMS, INC.
CONFIGURING AND PROVIDING PROFILES THAT MANAGE EXECUTION OF MOBILE APPLICATIONS	14/508245	9654508	10/7/2014	5/16/2017	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
CONNECTION LEASING FOR HOSTED SERVICES	14/508233	9426227	10/7/2014	8/23/2016	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR FILTERING COMMUNICATION BETWEEN PERIPHERAL DEVICES AND MOBILE COMPUTING DEVICES	14/506516	9767047	10/3/2014	9/19/2017	Granted	CITRIX SYSTEMS, INC.
REDIRECTION OF INFORMATION FROM SECURE VIRTUAL MACHINES TO UNSECURE VIRTUAL MACHINES	14/505868	9678780	10/3/2014	6/13/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DETECTING DEVICE IDENTITY AT A PROXY BACKGROUND	14/503092	9705762	9/30/2014	7/11/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PERFORMING SINGLE SIGN-ON BY AN INTERMEDIARY DEVICE FOR A REMOTE DESKTOP SESSION OF A CLIENT	14/502598	9491161	9/30/2014	11/8/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR APPLICATION BASED INTERCEPTION OF SSL/VPN TRAFFIC	14/498816	9497198	9/26/2014	11/15/2016	Granted	CITRIX SYSTEMS, INC.
VIRTUAL SERIAL CABLE	14/497193	9755894	9/25/2014	9/5/2017	Granted	CITRIX SYSTEMS, INC.
TRANSPARENT USER INTERFACE INTEGRATION BETWEEN LOCAL AND REMOTE COMPUTING ENVIRONMENTS	14/492071	9588637	9/22/2014	3/7/2017	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR PROVIDING A VIRTUAL APPLIANCE IN AN APPLICATION DELIVERY FABRIC	14/491515	10019128	9/19/2014	7/10/2018	Granted	CITRIX SYSTEMS, INC.
ALLOCATING VIRTUAL MACHINES ACCORDING TO USER-SPECIFIC VIRTUAL MACHINE METRICS	14/491486	9069438	9/19/2014	6/30/2015	Granted	CITRIX SYSTEMS, INC.
TRANSMITTING HARDWARE-RENDERED GRAPHICAL DATA	14/491013	10152194	9/19/2014	12/11/2018	Granted	CITRIX SYSTEMS, INC.
APPLICATION CUSTOMIZATION	14/490198	10924554	9/18/2014	2/16/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MULTI-LEVEL TAGGING OF ENCRYPTED ITEMS FOR ADDITIONAL SECURITY AND EFFICIENT ENCRYPTED ITEM DETERMINATION	14/486676	9819647	9/15/2014	11/14/2017	Granted	CITRIX SYSTEMS, INC.
MACHINE-TO-MACHINE INSTANT MESSAGING	14/482963	9009230	9/10/2014	4/14/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CARRIER GRADE NAT OPTIMIZATION	14/481215	9602465	9/9/2014	3/21/2017	Granted	CITRIX SYSTEMS, INC.
LEAST DISRUPTIVE CACHE ASSIGNMENT	14/473307	9378140	8/29/2014	6/28/2016	Granted	CITRIX SYSTEMS, INC.
MANAGING CLOUD ZONES	14/472371	9276925	8/29/2014	3/1/2016	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR CONTENT INJECTION	14/469194	9363328	8/26/2014	6/7/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING A SMART GROUP	14/467749	9363292	8/25/2014	6/7/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR IMPLEMENTATION OF JUMBO FRAME OVER EXISTING NETWORK STACK	14/464585	9894008	8/20/2014	2/13/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING FINE GRAINED CONTROL OVER MSS VALUES OF TRANSPORT LAYER CONNECTIONS	14/463234	9584427	8/19/2014	2/28/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR HIGH VOLUME LOGGING AND SYNCHRONIZATION FOR LARGE SCALE NETWORK ADDRESS TRANSLATION	14/463230	10476764	8/19/2014	11/12/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR USING END POINT AUDITING IN CONNECTION WITH TRAFFIC MANAGEMENT	14/462204	9264429	8/18/2014	2/16/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR HTTP CALLOUTS FOR POLICIES	14/461248	9628571	8/15/2014	4/18/2017	Granted	CITRIX SYSTEMS, INC.
DESIGNER INTERFACE FOR CONTROL SYSTEMS	14/458054	9791841	8/12/2014	10/17/2017	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR LOAD BALANCING AND VIRTUAL PRIVATE NETWORKING FOR SMS CENTER	14/456603	9143909	8/11/2014	9/22/2015	Granted	CITRIX SYSTEMS, INC.
INTERNET INFRASTRUCTURE MEASUREMENT METHOD AND SYSTEM ADAPTED TO SESSION VOLUME	14/454698	10397082	8/7/2014	8/27/2019	Granted	CITRIX SYSTEMS, INC.
DNS RESOLUTION REPLAY FOR BARE DOMAIN NAMES THAT MAP TO "A" RECORDS	14/454691	10530738	8/7/2014	1/7/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ENHANCED DELTA COMPRESSION	14/448642	9621666	7/31/2014	4/11/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ENHANCED CLIENT SIDE POLICY	14/448298	9407608	7/31/2014	8/2/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR USING AN HTTP-AWARE CLIENT AGENT	14/448265	9692725	7/31/2014	6/27/2017	Granted	CITRIX SYSTEMS, INC.
POLICY BASED APPLICATION MANAGEMENT	14/340096	9521147	7/24/2014	12/13/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR LOAD BALANCING AND CONNECTION MULTIPLEXING AMONG DATABASE SERVERS	14/340049	9824119	7/24/2014	11/21/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR APPLICATION SPECIFIC LOAD BALANCING	14/339081	10511694	7/23/2014	12/17/2019	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
TRUSTED FILE INDIRECTION	14/335466	10013421	7/18/2014	7/3/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SAMPLING MANAGEMENT ACROSS MULTIPLE CORES FOR HTML INJECTION	14/335404	9497262	7/18/2014	11/15/2016	Granted	CITRIX SYSTEMS, INC.
IMPLEMENTING SINGLE SIGN-ON ACROSS A HETEROGENEOUS COLLECTION OF CLIENT/SERVER AND WEB-BASED APPLICATIONS	14/334586	9485239	7/17/2014	11/1/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR RETAINING SOURCE IP IN A LOAD BALANCING MUTLI-CORE ENVIRONMENT	14/330391	9756151	7/14/2014	9/5/2017	Granted	CITRIX SYSTEMS, INC.
ENTERPRISE AUTHENTICATION VIA THIRD PARTY AUTHENTICATION SUPPORT	14/317795	9531714	6/27/2014	12/27/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROXYING COOKIES FOR SSL VPN CLIENTLESS SESSIONS	14/306354	9059966	6/17/2014	6/16/2015	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR DYNAMICALLY SWITCHING BETWEEN COMMUNICATIONS PROTOCOLS	14/303125	9391952	6/12/2014	7/12/2016	Granted	CITRIX SYSTEMS, INC.
MEDIATING RESOURCE ACCESS BASED ON A PHYSICAL LOCATION OF A MOBILE DEVICE	14/300702	9270678	6/10/2014	2/23/2016	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR PROVIDING VIRTUAL MONITORS	14/300078	9990170	6/9/2014	6/5/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR FOLDER REDIRECTION	14/298401	9798730	6/6/2014	10/24/2017	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR MANAGING PERIPHERAL DEVICES FOR VIRTUAL DESKTOPS	14/292683	9766913	5/30/2014	9/19/2017	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FACILITATING ACCESS TO STORAGE AMONG MULTIPLE COMPUTERS	14/287326	9665409	5/27/2014	5/30/2017	Granted	CITRIX SYSTEMS, INC.
PROTECT APPLICATIONS FROM SESSION STEALING/HIJACKING ATTACKS BY TRACKING AND BLOCKING ANOMALIES IN END POINT CHARACTERISTICS THROUGHOUT A USER SESSION	14/286610	10412050	5/23/2014	9/10/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MAINTAINING TRANSPARENT END TO END CACHE REDIRECTION	14/286296	9237208	5/23/2014	1/12/2016	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR GENERATING A COMBINED DISPLAY OF TASKBAR BUTTON GROUP ENTRIES GENERATED ON A LOCAL MACHINE AND ON A REMOTE MACHINE	14/283809	9436361	5/21/2014	9/6/2016	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
USER-DEFINED WORKFLOWS IN APP-BASED COLLABORATIVE WORKSPACE SYSTEM	14/283574	10373090	5/21/2014	8/6/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MULTIPATH TRANSMISSION CONTROL PROTOCOL CONNECTION MANAGEMENT	14/282954	9888042	5/20/2014	2/6/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR REDIRECT HANDLING	14/282894	9652514	5/20/2014	5/16/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR JUST-IN-TIME STATE SHARING	14/282421	9871849	5/20/2014	1/16/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING LOAD BALANCING AS A SERVICE	14/282411	10104166	5/20/2014	10/16/2018	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FOR USING A LAYERED GEAR TO ANALYZE AND MANAGE REAL-TIME NETWORK QUALITY OF SERVICE TRANSMISSION FOR MOBILE DEVICES ON PUBLIC NETWORKS	14/281834	9246822	5/19/2014	1/26/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ACHIEVING MULTIPLE TENANCY USING VIRTUAL MEDIA ACCESS CONTROL (VMAC) ADDRESSES	14/270715	9621509	5/6/2014	4/11/2017	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
ENTERPRISE SYSTEM AUTHENTICATION AND AUTHORIZATION VIA GATEWAY	14/265661	9584515	4/30/2014	2/28/2017	Granted	CITRIX SYSTEMS, INC.
MODIFYING AN APPLICATION FOR MANAGED EXECUTION	14/263264	9619216	4/28/2014	4/11/2017	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR PROVIDING A CONSISTENT PROFILE TO OVERLAPPING USER SESSIONS	14/259586	9451044	4/23/2014	9/20/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DISTRIBUTED HASH TABLE IN A MULTI-CORE SYSTEM	14/256387	9621437	4/18/2014	4/11/2017	Granted	CITRIX SYSTEMS, INC.
PROVIDING ENHANCED USER INTERFACES	14/253069	9817548	4/15/2014	11/14/2017	Granted	CITRIX SYSTEMS, INC.
PROXIMITY AND CONTEXT AWARE MOBILE WORKSPACES IN ENTERPRISE SYSTEMS	14/251016	10291465	4/11/2014	5/14/2019	Granted	CITRIX SYSTEMS, INC.
INTERPRETING A GESTURE-BASED INSTRUCTION TO SELECTIVELY DISPLAY A FRAME OF AN APPLICATION USER INTERFACE ON A MOBILE COMPUTING DEVICE	14/249850	9467346	4/10/2014	10/11/2016	Granted	CITRIX SYSTEMS, INC.
METHOD FOR VERYIFYING AUTHORIZED SIGNER FOR MOBILE DEVICE BASED DOCUMENT ESCROW SERVICE	14/248832	9596236	4/9/2014	3/14/2017	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SNAP NAVIGATION OF A SCROLLABLE LIST	14/247866	9665263	4/8/2014	5/30/2017	Granted	CITRIX SYSTEMS, INC.
PROVIDING A NATIVE DESKTOP USING CLOUD-SYNCHRONIZED DATA	14/247401	9641599	4/8/2014	5/2/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DISTRIBUTED HASH TABLE CONTRACT RENEWAL	14/245568	9596305	4/4/2014	3/14/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROTECTING CLUSTER SYSTEMS FROM TCP SYN ATTACK	14/245533	9246940	4/4/2014	1/26/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SSL SESSION MANAGEMENT IN A CLUSTER SYSTEM	14/245528	9769205	4/4/2014	9/19/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SYNCHRONIZING MSS AND PMTU IN NCORE AND CLUSTER SYSTEMS	14/245521	9497106	4/4/2014	11/15/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ETAG PERSISTENCY	14/245514	9866529	4/4/2014	1/9/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO CACHE PACKET STEERING DECISIONS FOR A CLUSTER OF LOAD BALANCERS	14/245505	9497281	4/4/2014	11/15/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DIAMETER LOAD BALANCING	14/245336	9680764	4/4/2014	6/13/2017	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR CLUSTER STATISTICS AGGREGATION	14/245329	10148544	4/4/2014	12/4/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR APPLICATION-STATE, DISTRIBUTED REPLICATION TABLE CACHE POISONING	14/245299	9621668	4/4/2014	4/11/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR APPLICATION-STATE DISTRIBUTED REPLICATION TABLE HUNTING	14/245296	9619542	4/4/2014	4/11/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO COLLECT LOGS FROM MULTIPLE NODES IN A CLUSTER OF LOAD BALANCERS	14/245057	10069677	4/4/2014	9/4/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR RELIABLE REPLICATION OF AN APPLICATION-STATE, DISTRIBUTED REPLICATION TABLE	14/244949	9426220	4/4/2014	8/23/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DYNAMICALLY EXPANDING LOAD BALANCING POOL	14/244597	9596299	4/3/2014	3/14/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR STARTUP ROUND ROBIN ENHANCEMENT	14/244560	9900379	4/3/2014	2/20/2018	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR MAINTAINING SESSION PERSISTENCE IN A CLUSTER SYSTEM	14/244504	9888068	4/3/2014	2/6/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CLUSTER PARAMETER LIMIT	14/244375	9692820	4/3/2014	6/27/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING MONITORING IN A CLUSTER SYSTEM	14/244329	9577892	4/3/2014	2/21/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CAPTURING AND CONSOLIDATING PACKET TRACING IN A CLUSTER SYSTEM	14/244315	9369368	4/3/2014	6/14/2016	Granted	CITRIX SYSTEMS, INC.
CONJURING AND PROVIDING PROFILES THAT MANAGE EXECUTION OF MOBILE APPLICATIONS	14/242011	9467474	4/1/2014	10/11/2016	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR MAINTAINING ASPECT RATIO ON POINTING DEVICES	14/223680	9690401	3/24/2014	6/27/2017	Granted	CITRIX SYSTEMS, INC.
UBIQUITOUS COLLABORATION IN MANAGED APPLICATIONS	14/221958	9628329	3/21/2014	4/18/2017	Granted	CITRIX SYSTEMS, INC.
PROVIDING USER INTERFACES AND WINDOW PREVIEWS FOR HOSTED APPLICATIONS	14/211966	10198143	3/14/2014	2/5/2019	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS OF USING THE REFRESH BUTTON TO DETERMINE FRESHNESS POLICY	14/199703	10911520	3/6/2014	2/2/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR LEARNING MSS OF SERVICES	14/198314	9491218	3/5/2014	11/8/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MULTI-LEVEL QUALITY OF SERVICE CLASSIFICATION IN AN INTERMEDIARY DEVICE	14/192556	9071542	2/27/2014	6/30/2015	Granted	CITRIX SYSTEMS, INC.
NAVIGATING A HIERARCHICAL DATA SET	14/187881	11010032	2/24/2014	5/18/2021	Granted	CITRIX SYSTEMS, INC.
SECURING ENCRYPTED VIRTUAL HARD DISKS	14/178598	9166787	2/12/2014	10/20/2015	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FOR GENERATING GRAPHICAL AND MEDIA DISPLAYS AT A CLIENT	14/176604	9325759	2/10/2014	4/26/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CONFIGURATION DRIVEN REWRITE OF SSL VPN CLIENTLESS SESSIONS	14/175616	10270740	2/7/2014	4/23/2019	Granted	CITRIX SYSTEMS, INC.
POLICY DRIVEN FINE GRAIN URL ENCODING MECHANISM FOR SSL VPN CLIENTLESS ACCESS	14/172385	9009813	2/4/2014	4/14/2015	Granted	CITRIX SYSTEMS, INC.
PROXIMITY AND CONTEXT AWARE MOBILE WORKSPACES IN ENTERPRISE SYSTEMS	14/172321	10243786	2/4/2014	3/26/2019	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR LISTENING POLICIES FOR VIRTUAL SERVERS OF APPLIANCE	14/162541	9825853	1/23/2014	11/21/2017	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR CREATING AND MANAGING NETWORK GROUPS	14/161553	9906461	1/22/2014	2/27/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR QUEUE LEVEL SSL CARD MAPPING TO MULTI-CORE PACKET ENGINE	14/161417	9378381	1/22/2014	6/28/2016	Granted	CITRIX SYSTEMS, INC.
EVALUATING APPLICATION INTEGRITY	14/154590	9223970	1/14/2014	12/29/2015	Granted	CITRIX SYSTEMS, INC.
REMOTING OR LOCALIZING TOUCH GESTURES AT A VIRTUALIZATION CLIENT AGENT	14/152355	10180728	1/10/2014	1/15/2019	Granted	CITRIX SYSTEMS, INC.
MULTIMEDIA REDIRECTION IN A VIRTUALIZED ENVIRONMENT USING A PROXY SERVER	14/152114	9124668	1/10/2014	9/1/2015	Granted	CITRIX SYSTEMS, INC.
MANAGEMENT OF UNMANAGED USER ACCOUNTS AND TASKS IN A MULTI-ACCOUNT MOBILE APPLICATION	14/151972	9501315	1/10/2014	11/22/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CLOUD-BASED PROBING AND DIAGNOSTICS	14/151633	9614745	1/9/2014	4/4/2017	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHODS AND SYSTEMS FOR VALIDATING MULTIPLE METHODS OF INPUT USING A UNIFIED RULE SET	14/147306	10114811	1/3/2014	10/30/2018	Granted	CITRIX SYSTEMS, INC.
PROVIDING MOBILE DEVICE MANAGEMENT FUNCTIONALITIES	14/144702	10742520	12/31/2013	8/11/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING PORTS FOR RTSP ACROSS CORES IN A MULTI-CORE SYSTEM	14/143613	9407679	12/30/2013	8/2/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR QUALITY OF SERVICE OF ENCRYPTED NETWORK TRAFFIC	14/143588	9294378	12/30/2013	3/22/2016	Granted	CITRIX SYSTEMS, INC.
ACCESSING ENTERPRISE RESOURCES WHILE PROVIDING DENIAL-OF-SERVICE ATTACK PROTECTION	14/140843	9344426	12/26/2013	5/17/2016	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR OPTIMIZING VIRTUAL DISK PROVISIONING	14/139621	9720719	12/23/2013	8/1/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR GSLB BASED ON SSL VPN USERS	14/139359	9781196	12/23/2013	10/3/2017	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR FORCING AN APPLICATION TO STORE DATA IN A SECURE STORAGE LOCATION	14/139135	9367703	12/23/2013	6/14/2016	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHODS AND APPARATUS FOR ELECTRONIC DOCUMENT HANDLING	14/134263	9507760	12/19/2013	11/29/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR EVALUATING AND PRIORITIZING RESPONSES FROM MULTIPLE OCSP RESPONDERS	14/132303	9172545	12/18/2013	10/27/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CONFIGURING POLICY BANK INVOCATIONS	14/107386	9450837	12/16/2013	9/20/2016	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR PROVIDING DOCUMENT RETENTION USING CRYPTOGRAPHY	14/106223	9286484	12/13/2013	3/15/2016	Granted	CITRIX SYSTEMS, INC.
SINGLE SIGN-ON ACCESS IN AN ORCHESTRATION FRAMEWORK FOR CONNECTED DEVICES	14/106171	9386120	12/13/2013	7/5/2016	Granted	CITRIX SYSTEMS, INC.
SECURING SENSITIVE DATA ON A MOBILE DEVICE	14/104457	9785794	12/12/2013	10/10/2017	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR ALLOCATING A USB DEVICE TO A TRUSTED VIRTUAL MACHINE OR A NON-TRUSTED VIRTUAL MACHINE	14/101010	9507615	12/9/2013	11/29/2016	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR PREVENTING ACCESS TO DISPLAY GRAPHICS GENERATED BY A TRUSTED VIRTUAL MACHINE	14/100988	9110700	12/9/2013	8/18/2015	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR FLASH CROWD CONTROL AND BATCHING OCSP REQUESTS VIA ONLINE CERTIFICATE STATUS PROTOCOL	14/100867	9203627	12/9/2013	12/1/2015	Granted	CITRIX SYSTEMS, INC.
METHOD AND APPARATUS FOR PROVIDING AUTHORIZED REMOTE ACCESS TO APPLICATION SESSIONS	14/095418	9401906	12/3/2013	7/26/2016	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR MACHINE LEARNING TO DISCOVER APPLICATION COMPATIBILITY STATUS	14/094697	9330184	12/2/2013	5/3/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR IIP ADDRESS SHARING ACROSS CORES IN A MULTI-CORE SYSTEM	14/081483	8856369	11/15/2013	10/7/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR REAL-TIME ENDPOINT APPLICATION FLOW CONTROL WITH NETWORK STRUCTURE COMPONENT	14/080453	9479447	11/14/2013	10/25/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR LINK LOAD BALANCING ON A MULTI-CORE DEVICE	14/075499	9019834	11/8/2013	4/28/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR HANDLING SSL SESSION NOT REUSABLE ACROSS MULTIPLE CORES	14/075460	9276957	11/8/2013	3/1/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING A GUEST VIRTUAL	14/065161	9065854	10/28/2013	6/23/2015	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
MACHINE EXECUTING WITHIN A VIRTUALIZED ENVIRONMENT						
DISPLAYING GRAPHICS FOR LOCAL VIRTUAL MACHINE BY ALLOCATING TEXTUAL BUFFER	14/060519	10127062	10/22/2013	11/13/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ESTABLISHING A CLOUD BRIDGE BETWEEN VIRTUAL STORAGE RESOURCES	14/059039	9210100	10/21/2013	12/8/2015	Granted	CITRIX SYSTEMS, INC.
REMOTE CONSOLE ACCESS IN A SCALABLE CLOUD COMPUTING ENVIRONMENT	14/057438	9225661	10/18/2013	12/29/2015	Granted	CITRIX SYSTEMS, INC.
APPLICATION WRAPPING FOR APPLICATION MANAGEMENT FRAMEWORK	14/055078	9170800	10/16/2013	10/27/2015	Granted	CITRIX SYSTEMS, INC.
SECURE CLIENT DRIVE MAPPING AND FILE STORAGE SYSTEM FOR MOBILE DEVICE MANAGEMENT TYPE SECURITY	14/054899	9218494	10/16/2013	12/22/2015	Granted	CITRIX SYSTEMS, INC.
MAINTAINING RESOURCE AVAILABILITY DURING MAINTENANCE OPERATIONS	14/051664	9471331	10/11/2013	10/18/2016	Granted	CITRIX SYSTEMS, INC.
SECURE ADMINISTRATION OF VIRTUAL MACHINES	14/050488	9258290	10/10/2013	2/9/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR POLICY BASED TRIGGERING OF	14/049918	9253193	10/9/2013	2/2/2016	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
CLIENT-AUTHENTICATION AT DIRECTORY LEVEL GRANULARITY						
SYSTEMS AND METHODS FOR SCRIPT INJECTION	14/048931	9231815	10/8/2013	1/5/2016	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR DISPLAYING, ON A FIRST MACHINE, DATA ASSOCIATED WITH A DRIVE OF A SECOND MACHINE, WITHOUT MAPPING THE DRIVE	14/048611	9929893	10/8/2013	3/27/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR BRIDGING BETWEEN PUBLIC AND PRIVATE CLOUDS THROUGH MULTILEVEL API INTEGRATION	14/047602	9917865	10/7/2013	3/13/2018	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR ROUTING PACKETS IN A VPN-CLIENT-TO-VPN-CLIENT CONNECTION VIA AN SSL/VPN NETWORK APPLIANCE	14/045922	9246878	10/4/2013	1/26/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR HANDLING LIMIT PARAMETERS FOR A MULTI-CORE SYSTEM	14/045901	9778954	10/4/2013	10/3/2017	Granted	CITRIX SYSTEMS, INC.
WAVEFRONT DETECTION AND DISAMBIGUATION OF ACKNOWLEDGMENTS	14/045543	9008100	10/3/2013	4/14/2015	Granted	CITRIX SYSTEMS, INC.
POLICY-BASED APPLICATION MANAGEMENT	14/045014	9043480	10/3/2013	5/26/2015	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
POLICY-BASED APPLICATION MANAGEMENT	14/045005	8769063	10/3/2013	7/1/2014	Granted	CITRIX SYSTEMS, INC.
POLICY-BASED APPLICATION MANAGEMENT	14/044972	8881229	10/3/2013	11/4/2014	Granted	CITRIX SYSTEMS, INC.
POLICY-BASED APPLICATION MANAGEMENT	14/044946	9111105	10/3/2013	8/18/2015	Granted	CITRIX SYSTEMS, INC.
POLICY-BASED APPLICATION MANAGEMENT	14/044928	8799994	10/3/2013	8/5/2014	Granted	CITRIX SYSTEMS, INC.
POLICY-BASED APPLICATION MANAGEMENT	14/044919	9213850	10/3/2013	12/15/2015	Granted	CITRIX SYSTEMS, INC.
POLICY-BASED APPLICATION MANAGEMENT	14/044901	8806570	10/3/2013	8/12/2014	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR PRIORITIZING DIRTY REGIONS WITHIN AN IMAGE	14/043597	8718400	10/1/2013	5/6/2014	Granted	CITRIX SYSTEMS, INC.
PROVIDING A MANAGED BROWSER	14/043343	8850050	10/1/2013	9/30/2014	Granted	CITRIX SYSTEMS, INC.
PROVIDING A MANAGED BROWSER	14/043301	8996709	10/1/2013	3/31/2015	Granted	CITRIX SYSTEMS, INC.
PROVIDING A MANAGED BROWSER	14/043229	9158895	10/1/2013	10/13/2015	Granted	CITRIX SYSTEMS, INC.
PROVIDING A MANAGED BROWSER	14/043164	8898732	10/1/2013	11/25/2014	Granted	CITRIX SYSTEMS, INC.
PROVIDING A MANAGED BROWSER	14/043086	9112853	10/1/2013	8/18/2015	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
PROVIDING A MANAGED BROWSER	14/043012	8893221	10/1/2013	11/18/2014	Granted	CITRIX SYSTEMS, INC.
PROVIDING A MANAGED BROWSER	14/042984	8850010	10/1/2013	9/30/2014	Granted	CITRIX SYSTEMS, INC.
PROVIDING A MANAGED BROWSER	14/042941	8881228	10/1/2013	11/4/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR USING A CLIENT AGENT TO MANAGE HTTP AUTHENTICATION COOKIES	14/042354	9544285	9/30/2013	1/10/2017	Granted	CITRIX SYSTEMS, INC.
CONFIGURING AND PROVIDING PROFILES THAT MANAGE EXECUTION OF MOBILE APPLICATIONS	14/041946	8904477	9/30/2013	12/2/2014	Granted	CITRIX SYSTEMS, INC.
CONFIGURING AND PROVIDING PROFILES THAT MANAGE EXECUTION OF MOBILE APPLICATIONS	14/041935	8887230	9/30/2013	11/11/2014	Granted	CITRIX SYSTEMS, INC.
CONFIGURING AND PROVIDING PROFILES THAT MANAGE EXECUTION OF MOBILE APPLICATIONS	14/041923	8719898	9/30/2013	5/6/2014	Granted	CITRIX SYSTEMS, INC.
CONTROLLING MOBILE DEVICE ACCESS TO SECURE DATA	14/041911	8959579	9/30/2013	2/17/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR HEALTH BASED SPILLOVER	14/041772	8706885	9/30/2013	4/22/2014	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SECURE VIRTUALIZATION ENVIRONMENT BOOTABLE FROM AN EXTERNAL MEDIA DEVICE	14/041763	8924703	9/30/2013	12/30/2014	Granted	CITRIX SYSTEMS, INC.
PROVIDING A MANAGED BROWSER	14/040831	9355223	9/30/2013	5/31/2016	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR INTERACTIVE EVALUATION USING DYNAMICALLY GENERATED, INTERACTIVE RESULTANT SETS OF POLICIES	14/038422	9430636	9/26/2013	8/30/2016	Granted	CITRIX SYSTEMS, INC.
HUMAN INTERFACE DEVICE VIRTUALIZATION USING PARAVIRTUAL USB SYSTEM	14/037855	9286094	9/26/2013	3/15/2016	Granted	CITRIX SYSTEMS, INC.
SEPARATE, DISPOSABLE EXECUTION ENVIRONMENT FOR ACCESSING UNVERIFIED CONTENT	14/037634	10089458	9/26/2013	10/2/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CONTROLLING, BY A HYPERVISOR, ACCESS TO PHYSICAL RESOURCES	14/035386	9361141	9/24/2013	6/7/2016	Granted	CITRIX SYSTEMS, INC.
PROVIDING MOBILE DEVICE MANAGEMENT FUNCTIONALITIES	14/032885	8910264	9/20/2013	12/9/2014	Granted	CITRIX SYSTEMS, INC.
PROVIDING MOBILE DEVICE MANAGEMENT FUNCTIONALITIES	14/032756	8849979	9/20/2013	9/30/2014	Granted	CITRIX SYSTEMS, INC.
PROVIDING MOBILE DEVICE MANAGEMENT FUNCTIONALITIES	14/032706	8813179	9/20/2013	8/19/2014	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
PROVIDING MOBILE DEVICE MANAGEMENT FUNCTIONALITIES	14/032643	9455886	9/20/2013	9/27/2016	Granted	CITRIX SYSTEMS, INC.
PROVIDING MOBILE DEVICE MANAGEMENT FUNCTIONALITIES FOR A MANAGED BROWSER	14/032439	8850049	9/20/2013	9/30/2014	Granted	CITRIX SYSTEMS, INC.
PROVIDING VIRTUALIZED PRIVATE NETWORK TUNNELS	14/029096	8931078	9/17/2013	1/6/2015	Granted	CITRIX SYSTEMS, INC.
PROVIDING VIRTUALIZED PRIVATE NETWORK TUNNELS	14/029088	8910239	9/17/2013	12/9/2014	Granted	CITRIX SYSTEMS, INC.
PROVIDING VIRTUALIZED PRIVATE NETWORK TUNNELS	14/029068	8914845	9/17/2013	12/16/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SPLIT PROXYING OF SSL VIA WAN APPLIANCES	14/028133	8949591	9/16/2013	2/3/2015	Granted	CITRIX SYSTEMS, INC.
ORCHESTRATION FRAMEWORK FOR CONNECTED DEVICES	14/026442	9774658	9/13/2013	9/26/2017	Granted	CITRIX SYSTEMS, INC.
PROVIDING MOBILE DEVICE MANAGEMENT FUNCTIONALITIES	14/025898	9985850	9/13/2013	5/29/2018	Granted	CITRIX SYSTEMS, INC.
DATA MANAGEMENT FOR AN APPLICATION WITH MULTIPLE OPERATION MODES	14/022845	8650303	9/10/2013	2/11/2014	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DATA MANAGEMENT FOR AN APPLICATION WITH MULTIPLE OPERATION MODES	14/021227	10284627	9/9/2013	5/7/2019	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR APPROXIMATING PROGRESSIVE IMAGE ENCODING USING IMAGE PARTITIONING	14/016560	8750633	9/3/2013	6/10/2014	Granted	CITRIX SYSTEMS, INC.
AGGREGATION OF METRICS FOR TRACKING ELECTRONIC COMPUTING RESOURCES BASED ON USER CLASS HIERARCHY	14/015463	9430354	8/30/2013	8/30/2016	Granted	CITRIX SYSTEMS, INC.
PROVIDING AN ENTERPRISE APPLICATION STORE	14/015245	8849978	8/30/2013	9/30/2014	Granted	CITRIX SYSTEMS, INC.
REDIRECTING LOCAL STORAGE TO CLOUD STORAGE	14/015227	9432457	8/30/2013	8/30/2016	Granted	CITRIX SYSTEMS, INC.
PROVIDING AN ENTERPRISE APPLICATION STORE	14/015194	9369449	8/30/2013	6/14/2016	Granted	CITRIX SYSTEMS, INC.
PROVIDING AN ENTERPRISE APPLICATION STORE	14/015108	9413736	8/30/2013	8/9/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING A VPN SOLUTION	14/015078	8995453	8/30/2013	3/31/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SECURE HANDLING OF SECURE ATTENTION SEQUENCES	14/013816	9075970	8/29/2013	7/7/2015	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR SECURE HANDLING OF SECURE ATTENTION SEQUENCES	14/013765	9075969	8/29/2013	7/7/2015	Granted	CITRIX SYSTEMS, INC.
METHOD FOR PRIORITIZING NETWORK PACKETS AT HIGH BANDWIDTH SPEEDS	13/975161	9813352	8/23/2013	11/7/2017	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR DYNAMICALLY ASSOCIATING ACCESS RIGHTS WITH A RESOURCE	13/969796	9401931	8/19/2013	7/26/2016	Granted	CITRIX SYSTEMS, INC.
EFFICIENT IN-BAND COMMUNICATION OF QUALITY-OF-SERVICE POLICIES BETWEEN VIRTUAL CLASSIFICATION DEVICES AND ENFORCEMENT DEVICES	13/969440	9680756	8/16/2013	6/13/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SERVER INITIATED CONNECTION MANAGEMENT IN A MULTI-CORE SYSTEM	13/966681	8909756	8/14/2013	12/9/2014	Granted	CITRIX SYSTEMS, INC.
MANAGING CONNECTION FAILOVER IN A LOAD BALANCER	13/965759	9160791	8/13/2013	10/13/2015	Granted	CITRIX SYSTEMS, INC.
CONFIDENCE SCORING OF DEVICE REPUTATION BASED ON CHARACTERISTIC NETWORK BEHAVIOR	13/965003	10320628	8/12/2013	6/11/2019	Granted	CITRIX SYSTEMS, INC.
HIGH PERFORMANCE QUALITY-OF-SERVICE PACKET SCHEDULING FOR	13/963936	9401860	8/9/2013	7/26/2016	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0214

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
MULTIPLE PACKET PROCESSING ENGINES						
ENTERPRISE APPLICATION STORE FOR AN ORCHESTRATION FRAMEWORK FOR CONNECTED DEVICES	13/963851	9053340	8/9/2013	6/9/2015	Granted	CITRIX SYSTEMS, INC.
SINGLE SIGN-ON ACCESS IN AN ORCHESTRATION FRAMEWORK FOR CONNECTED DEVICES	13/963825	8613070	8/9/2013	12/17/2013	Granted	CITRIX SYSTEMS, INC.
CONTROLLING DEVICE ACCESS TO ENTERPRISE RESOURCES IN AN ORCHESTRATION FRAMEWORK FOR CONNECTED DEVICES	13/963811	8745755	8/9/2013	6/3/2014	Granted	CITRIX SYSTEMS, INC.
MANAGING DYNAMIC POLICIES AND SETTINGS IN AN ORCHESTRATION FRAMEWORK FOR CONNECTED DEVICES	13/963794	8726343	8/9/2013	5/13/2014	Granted	CITRIX SYSTEMS, INC.
SHARING CONTENT ACROSS APPLICATIONS AND DEVICES HAVING MULTIPLE OPERATION MODES IN AN ORCHESTRATION FRAMEWORK FOR CONNECTED DEVICES	13/963758	9189645	8/9/2013	11/17/2015	Granted	CITRIX SYSTEMS, INC.
COORDINATING A COMPUTING ACTIVITY ACROSS APPLICATIONS AND DEVICES HAVING MULTIPLE OPERATION MODES IN AN	13/963739	9392077	8/9/2013	7/12/2016	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0215

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
ORCHESTRATION FRAMEWORK FOR CONNECTED DEVICES						
CONTINUOUS UPGRADING OF COMPUTERS IN A LOAD BALANCED ENVIRONMENT	13/962445	9264296	8/8/2013	2/16/2016	Granted	CITRIX SYSTEMS, INC.
PERFORMING QOS ON UNKNOWN BANDWIDTHS THROUGH RATE ESTIMATING TCP CONGESTION HANDLERS	13/961850	9755973	8/7/2013	9/5/2017	Granted	CITRIX SYSTEMS, INC.
BOUND BASED CONTEXTUAL ZOOM	13/960740	10572124	8/6/2013	2/25/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR LEAST CONNECTION LOAD BALANCING BY MULTI-CORE DEVICE	13/955807	9088501	7/31/2013	7/21/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PERFORMING RESPONSE BASED CACHE REDIRECTION	13/955797	10951726	7/31/2013	3/16/2021	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR LOAD BALANCING NON-IP DEVICES	13/955517	9749148	7/31/2013	8/29/2017	Granted	CITRIX SYSTEMS, INC.
AUTONOMIC VIRTUAL MACHINE SESSION LINGERING OF INACTIVE VIRTUAL MACHINE SESSIONS BY A VIRTUALIZATION COMPUTING PLATFORM	13/955213	9678771	7/31/2013	6/13/2017	Granted	CITRIX SYSTEMS, INC.

PATENT
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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR MONITOR DISTRIBUTION IN A MULTI-CORE SYSTEM	13/953262	8886801	7/29/2013	11/11/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR APPLYING TRANSFORMATIONS TO IP ADDRESSES OBTAINED BY DOMAIN NAME SERVICE (DNS)	13/951761	9313123	7/26/2013	4/12/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR APPLICATION-BASED INTERCEPTION OF SSL/VPN TRAFFIC	13/943662	9294439	7/16/2013	3/22/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING APPLICATION SECURITY PROFILES	13/935320	9160768	7/3/2013	10/13/2015	Granted	CITRIX SYSTEMS, INC.
SECURE HYBRID FILE-SHARING SYSTEM	13/931987	9203904	6/30/2013	12/1/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING A MULTI-CORE ARCHITECTURE FOR AN ACCELERATION APPLIANCE	13/929985	9407554	6/28/2013	8/2/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING DYNAMIC CONNECTION SPILLOVER AMONG VIRTUAL SERVERS	13/929202	9185019	6/27/2013	11/10/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SERVER SURGE PROTECTION IN A MULTI-CORE SYSTEM	13/913192	9172650	6/7/2013	10/27/2015	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR INTERCEPTING AND AUTOMATICALLY FILLING IN FORMS BY THE APPLIANCE FOR SINGLE-SIGN ON	13/902612	8966603	5/24/2013	2/24/2015	Granted	CITRIX SYSTEMS, INC.
VALIDATING THE IDENTITY OF A MOBILE APPLICATION FOR MOBILE APPLICATION MANAGEMENT	13/898167	9270674	5/20/2013	2/23/2016	Granted	CITRIX SYSTEMS, INC.
OPTIMIZING VIRTUAL MACHINE MIGRATION VIA IDENTIFICATION AND TREATMENT OF VIRTUAL MEMORY SWAP FILE	13/897935	9268588	5/20/2013	2/23/2016	Granted	CITRIX SYSTEMS, INC.
PROVIDING CONTEXTUAL MENUS	13/897539	9268477	5/20/2013	2/23/2016	Granted	CITRIX SYSTEMS, INC.
CONTEXT AWARE VIRTUAL DESKTOP	13/896528	9292323	5/17/2013	3/22/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DEPLOYING A SPOTTED VIRTUAL SERVER IN A CLUSTER SYSTEM	13/895284	9519518	5/15/2013	12/13/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR REDUCING DENIAL OF SERVICE ATTACKS AGAINST DYNAMICALLY GENERATED NEXT SECURE RECORDS	13/895279	9396330	5/15/2013	7/19/2016	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR PROVIDING, BY A REMOTE MACHINE, ACCESS TO A DESK BAND	13/894028	9032026	5/14/2013	5/12/2015	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
ASSOCIATED WITH A RESOURCE EXECUTING ON A LOCAL MACHINE						
SYSTEMS AND METHODS FOR OBJECT RATE LIMITING IN MULTI-CORE SYSTEM	13/891709	9866463	5/10/2013	1/9/2018	Granted	CITRIX SYSTEMS, INC.
DYNAMICALLY DETERMINING HOW MANY NETWORK PACKETS TO PROCESS	13/891089	9521088	5/9/2013	12/13/2016	Granted	CITRIX SYSTEMS, INC.
ENTERPRISE MANAGED SYSTEMS WITH COLLABORATIVE APPLICATION SUPPORT	13/888689	9424554	5/7/2013	8/23/2016	Granted	CITRIX SYSTEMS, INC.
SPEECH RECOGNITION SUPPORT FOR REMOTE APPLICATIONS AND DESKTOPS	13/888495	9552130	5/7/2013	1/24/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR A SPDY TO HTTP GATEWAY	13/887004	9438701	5/3/2013	9/6/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ADAPTIVE APPLICATION PROVISIONING	13/887001	9769085	5/3/2013	9/19/2017	Granted	CITRIX SYSTEMS, INC.
UPDATING THE RECIPIENTS OF A PREVIOUSLY DELIVERED ELECTRONIC MESSAGE	13/886991	10469413	5/3/2013	11/5/2019	Granted	CITRIX SYSTEMS, INC.
DISRUPTING PASSWORD ATTACK USING COMPRESSION	13/886905	8949617	5/3/2013	2/3/2015	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
APPLICATION WITH MULTIPLE OPERATION MODES	13/886889	9280377	5/3/2013	3/8/2016	Granted	CITRIX SYSTEMS, INC.
SECURED ACCESS TO RESOURCES USING A PROXY	13/886845	9154488	5/3/2013	10/6/2015	Granted	CITRIX SYSTEMS, INC.
MOBILE DEVICE LOCKING WITH CONTEXT	13/886765	9215225	5/3/2013	12/15/2015	Granted	CITRIX SYSTEMS, INC.
IMAGE ANALYSIS AND MANAGEMENT	13/886543	9064125	5/3/2013	6/23/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR NETWORK FILTERING IN VPN	13/886526	8990901	5/3/2013	3/24/2015	Granted	CITRIX SYSTEMS, INC.
USER AND DEVICE AUTHENTICATION IN ENTERPRISE SYSTEMS	13/886518	9098687	5/3/2013	8/4/2015	Granted	CITRIX SYSTEMS, INC.
UNDIFFERENTIATED SERVICE DOMAINS	13/886024	9225596	5/2/2013	12/29/2015	Granted	CITRIX SYSTEMS, INC.
SURROGATE NAME DELIVERY NETWORK	13/882153	9906488	10/25/2011	2/27/2018	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR ACCESSING REMOTE USER FILES ASSOCIATED WITH LOCAL RESOURCES	13/874754	9418081	5/1/2013	8/16/2016	Granted	CITRIX SYSTEMS, INC.

PATENT
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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR PROVIDING QUALITY OF SERVICE VIA A FLOW CONTROLLED TUNNEL	13/869831	9413814	4/24/2013	8/9/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SPILLOVER IN A MULTI-CORE SYSTEM	13/864325	9183052	4/17/2013	11/10/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CACHING SNMP DATA IN MULTI-CORE AND CLUSTER SYSTEMS	13/861731	9817789	4/12/2013	11/14/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR TRAP MONITORING IN MULTI-CORE AND CLUSTER SYSTEMS	13/861702	9294381	4/12/2013	3/22/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR GSLB PREFERRED BACKUP LIST	13/858018	9219781	4/6/2013	12/22/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR NEXTPROTO NEGOTIATION EXTENSION HANDLING USING MIXED MODE	13/858011	9077754	4/6/2013	7/7/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR EXPORTING CLIENT AND SERVER TIMING INFORMATION FOR WEBPAGE AND EMBEDDED OBJECT ACCESS	13/858010	9706004	4/6/2013	7/11/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR EXPORTING APPLICATION DETAILS USING APPFLOW	13/858009	9432269	4/6/2013	8/30/2016	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0221

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR HTTP-BODY DOS ATTACK PREVENTION WITH ADAPTIVE TIMEOUT	13/858008	9055100	4/6/2013	6/9/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CACHING OF SQL RESPONSES USING INTEGRATED CACHING	13/858007	9235618	4/6/2013	1/12/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR TCP WESTWOOD HYBRID APPROACH	13/858003	9118569	4/6/2013	8/25/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DYNAMIC RECEIVE BUFFERING	13/858002	9769288	4/6/2013	9/19/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ADDITIONAL RETRANSMISSIONS OF DROPPED PACKETS	13/856263	9071543	4/3/2013	6/30/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR GSLB MEP CONNECTION MANAGEMENT ACROSS MULTIPLE CORE APPLIANCES	13/850869	9712611	3/26/2013	7/18/2017	Granted	CITRIX SYSTEMS, INC.
METHOD AND APPLIANCE FOR AUTHENTICATING, BY AN APPLIANCE, A CLIENT TO ACCESS A VIRTUAL PRIVATE NETWORK CONNECTION, BASED ON AN ATTRIBUTE OF A CLIENT-SIDE CERTIFICATE	13/850848	8819809	3/26/2013	8/26/2014	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0222

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHODS AND SYSTEMS FOR REMOTING THREE DIMENSIONAL GRAPHICS	13/846682	8665265	3/18/2013	3/4/2014	Granted	CITRIX SYSTEMS, INC.
METHOD AND APPARATUS FOR UPDATING A GRAPHICAL DISPLAY IN A DISTRIBUTED PROCESSING ENVIRONMENT USING COMPRESSION	13/846671	8677022	3/18/2013	3/18/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHODS FOR AUTOMATIC TIME-WARPED PLAYBACK IN RENDERING A RECORDED COMPUTER SESSION	13/846341	8917978	3/18/2013	12/23/2014	Granted	CITRIX SYSTEMS, INC.
PAIRING USERS WITH SOCIAL MEDIA COMMUNITIES	13/836884	9137321	3/15/2013	9/15/2015	Granted	CITRIX SYSTEMS, INC.
DISPLAY OF USER ACTIONS OR SEARCH RESULTS IN SOCIAL MEDIA COMMUNITY	13/836747	9516121	3/15/2013	12/6/2016	Granted	CITRIX SYSTEMS, INC.
MANAGING COMPUTER SERVER CAPACITY	13/835294	9235801	3/15/2013	1/12/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING USER INTERFACES FOR MANAGEMENT APPLICATIONS	13/828518	10222926	3/14/2013	3/5/2019	Granted	CITRIX SYSTEMS, INC.
STORAGE OPTIMIZATION SELECTION WITHIN A VIRTUALIZATION ENVIRONMENT	13/799776	9286087	3/13/2013	3/15/2016	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DYNAMIC CONFIGURATION IN CLOUD COMPUTING ENVIRONMENTS	13/788445	9251115	3/7/2013	2/2/2016	Granted	CITRIX SYSTEMS, INC.,
SYSTEM AND METHOD FOR MANAGING CODE ISOLATION	13/788259	9582302	3/7/2013	2/28/2017	Granted	CITRIX SYSTEMS, INC.
CROSS PLATFORM MESSAGING	13/788247	9438554	3/7/2013	9/6/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND ALGORITHM FOR INTERFACING WITH A VIRTUALIZED COMPUTING SERVICE OVER A NETWORK USING A LIGHTWEIGHT CLIENT	13/786419	8918456	3/5/2013	12/23/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND ALGORITHM FOR INTERFACING WITH A VIRTUALIZED COMPUTING SERVICE OVER A NETWORK USING A LIGHTWEIGHT CLIENT	13/786417	8918455	3/5/2013	12/23/2014	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR PER PIXEL ALPHA-BLENDING OF A PARENT WINDOW AND A PORTION OF A BACKGROUND IMAGE	13/777222	8723887	2/26/2013	5/13/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING PREFERRED CLIENT CONNECTIVITY TO SERVERS VIA MULTI-CORE SYSTEM	13/776146	8935399	2/25/2013	1/13/2015	Granted	CITRIX SYSTEMS, INC.
CREATING A VIRTUAL DISK USING SET OF BINDING INFORMATION OF A PARAVIRTUAL NETWORK	13/776041	9207959	2/25/2013	12/8/2015	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0224

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
INTERFACE CARD AND A PHYSICAL NETWORK INTERFACE CARD						
SYSTEMS AND METHODS FOR AGGRESSIVE WINDOW PROBING	13/769425	8875290	2/18/2013	10/28/2014	Granted	CITRIX SYSTEMS, INC.
SELECTIVE SYNCHRONIZATION OF REMOTELY STORED CONTENT	13/767510	9330106	2/14/2013	5/3/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEM UPDATES WITH PERSONAL VIRTUAL DISKS	13/764295	8997080	2/11/2013	3/31/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR GENERATING AND MANAGING COOKIE SIGNATURES FOR PREVENTION OF HTTP DENIAL OF SERVICE IN A MULTI-CORE SYSTEM	13/762129	9268736	2/7/2013	2/23/2016	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR AUTHORIZING A LEVEL OF ACCESS OF A CLIENT TO A VIRTUAL PRIVATE NETWORK CONNECTION, BASED ON A CLIENT-SIDE ATTRIBUTE	13/760898	8904475	2/6/2013	12/2/2014	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR MODIFYING DISK IMAGES TO PROVIDE NETWORK INTERFACE CARD TEAMING CAPABILITIES	13/750490	8627056	1/25/2013	1/7/2014	Granted	CITRIX SYSTEMS, INC.
STORAGE ENCRYPTION	13/748032	9003203	1/23/2013	4/7/2015	Granted	CITRIX SYSTEMS, INC.
METHOD AND DEVICE FOR PERFORMING CACHING OF	13/744614	8788581	1/18/2013	7/22/2014	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0225

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DYNAMICALLY GENERATED OBJECTS IN A DATA COMMUNICATION NETWORK						
METHODS AND APPARATUS FACILITATING ACCESS TO STORAGE AMONG MULTIPLE COMPUTERS	13/740982	9165157	1/14/2013	10/20/2015	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEMS FOR ROUTING PACKETS FROM A GATEWAY TO AN ENDPOINT	13/739895	8897299	1/11/2013	11/25/2014	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR ASSIGNING ACCESS CONTROL LEVELS IN PROVIDING ACCESS TO NETWORKED CONTENT FILES	13/735550	9311502	1/7/2013	4/12/2016	Granted	CITRIX SYSTEMS, INC.
VIRTUAL DESKTOP ACCESS USING WIRELESS DEVICES	13/732905	9264284	1/2/2013	2/16/2016	Granted	CITRIX SYSTEMS, INC.
CAPTURING AND RESTORING SESSION STATE OF A MACHINE WITHOUT USING MEMORY IMAGES	13/724665	9043391	12/21/2012	5/26/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR ANALYZING AND REPORTING EXTENSIBLE DATA FROM MULTIPLE SOURCES IN MULTIPLE FORMATS	13/723132	10515094	12/20/2012	12/24/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR FACILITATING VIRTUALIZATION OF A HETEROGENEOUS PROCESSOR POOL	13/722216	8943512	12/20/2012	1/27/2015	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0226

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR BULK ENCRYPTION AND DECRYPTION OF TRANSMITTED DATA	13/712658	8838958	12/12/2012	9/16/2014	Granted	CITRIX SYSTEMS, INC.
ENCRYPTION-BASED DATA ACCESS MANAGEMENT	13/712333	8997197	12/12/2012	3/31/2015	Granted	CITRIX SYSTEMS, INC.
CONTROLLING A NETWORK INTERFACE USING VIRTUAL SWITCH PROXYING	13/706806	9083651	12/6/2012	7/14/2015	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR ENABLING FEATURES PROVIDED BY A FIRST PRESENTATION LAYER PROTOCOL IN A SESSION IMPLEMENTED ACCORDING TO A SECOND PRESENTATION LAYER PROTOCOL	13/693424	9537958	12/4/2012	1/3/2017	Granted	CITRIX SYSTEMS, INC.
INTEGRATING NATIVE USER INTERFACE COMPONENTS ON A MOBILE DEVICE	13/688497	9612724	11/29/2012	4/4/2017	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR MAINTAINING STATE IN A VIRTUAL MACHINE WHEN DISCONNECTED FROM GRAPHICS HARDWARE	13/687623	9514507	11/28/2012	12/6/2016	Granted	CITRIX SYSTEMS, INC.
DIAGNOSTIC VIRTUAL MACHINE CREATED TO MONITOR CLUSTER OF HYPERVISORS BASED ON USER REQUESTING ASSISTANCE FROM CLUSTER ADMINISTRATOR	13/686445	9015714	11/27/2012	4/21/2015	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0227

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
ADAPTATION OF CONTENT DELIVERY NETWORK TO INCREMENTAL DELIVERY OF LARGE, FREQUENTLY UPDATED DATA SETS	13/679881	10666701	11/16/2012	5/26/2020	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR LOAD BALANCING AND VIRTUAL PRIVATE NETWORKING FOR SMS CENTER	13/677041	8830093	11/14/2012	9/9/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR APPFLOW FOR DATASTREAM	13/673445	9438488	11/9/2012	9/6/2016	Granted	CITRIX SYSTEMS, INC.
NETWORK OFFERING IN CLOUD COMPUTING ENVIRONMENT	13/662483	9223635	10/28/2012	12/29/2015	Granted	CITRIX SYSTEMS, INC.
ADAPTIVE STEREOSCOPIC 3D STREAMING	13/660442	9307225	10/25/2012	4/5/2016	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR EVALUATING HISTORICAL METRICS IN SELECTING A PHYSICAL HOST FOR EXECUTION OF A VIRTUAL MACHINE	13/652121	9396042	10/15/2012	7/19/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR A DISTRIBUTED VIRTUAL DESKTOP INFRASTRUCTURE	13/651886	9270785	10/15/2012	2/23/2016	Granted	CITRIX SYSTEMS, INC.
VIRTUAL CONSOLIDATED APPLIANCE	13/649534	9331891	10/11/2012	5/3/2016	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
GATEWAY FOR CONTROLLING MOBILE DEVICE ACCESS TO ENTERPRISE RESOURCES	13/649076	9378359	10/10/2012	6/28/2016	Granted	CITRIX SYSTEMS, INC.
CONTROLLING MOBILE DEVICE ACCESS TO ENTERPRISE RESOURCES	13/649073	9529996	10/10/2012	12/27/2016	Granted	CITRIX SYSTEMS, INC.
RULES BASED DETECTION AND CORRECTION OF PROBLEMS ON MOBILE DEVICES OF ENTERPRISE USERS	13/649071	9286471	10/10/2012	3/15/2016	Granted	CITRIX SYSTEMS, INC.
SECURE CONTAINER FOR PROTECTING ENTERPRISE DATA ON A MOBILE DEVICE	13/649069	9143530	10/10/2012	9/22/2015	Granted	CITRIX SYSTEMS, INC.
PROTECTING ENTERPRISE DATA THROUGH POLICY-BASED ENCRYPTION OF MESSAGE ATTACHMENTS	13/649064	8886925	10/10/2012	11/11/2014	Granted	CITRIX SYSTEMS, INC.
SECURE MOBILE BROWSER FOR PROTECTING ENTERPRISE DATA	13/649063	8869235	10/10/2012	10/21/2014	Granted	CITRIX SYSTEMS, INC.
SECURE EXECUTION OF ENTERPRISE APPLICATIONS ON MOBILE DEVICES	13/649024	9183380	10/10/2012	11/10/2015	Granted	CITRIX SYSTEMS, INC.
MODIFYING PRE-EXISTING MOBILE APPLICATIONS TO IMPLEMENT ENTERPRISE SECURITY POLICIES	13/649022	9143529	10/10/2012	9/22/2015	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0229

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
PROVIDING SECURE MOBILE DEVICE ACCESS TO ENTERPRISE RESOURCES USING APPLICATION TUNNELS	13/648993	9137262	10/10/2012	9/15/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DYNAMIC ADAPTATION OF NETWORK ACCELERATORS	13/648975	9923826	10/10/2012	3/20/2018	Granted	CITRIX SYSTEMS, INC.
REVERSE SEAMLESS INTEGRATION BETWEEN LOCAL AND REMOTE COMPUTING ENVIRONMENTS	13/644659	8970450	10/4/2012	3/3/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR HANDLING A MULTI-CONNECTION PROTOCOL BETWEEN A CLIENT AND SERVER TRAVERSING A MULTI-CORE SYSTEM	13/631686	9264293	9/28/2012	2/16/2016	Granted	CITRIX SYSTEMS, INC.
DISTRIBUTED CONTENT CACHING SOLUTION FOR A MOBILE WIRELESS NETWORK	13/621990	9143575	9/18/2012	9/22/2015	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR COMMUNICATING BETWEEN ISOLATION ENVIRONMENTS	13/619294	9021494	9/14/2012	4/28/2015	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR COMMUNICATING BETWEEN ISOLATION ENVIRONMENTS	13/619207	9009721	9/14/2012	4/14/2015	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEMS FOR SECURING REMOTE ACCESS TO PRIVATE NETWORKS	13/618180	8892778	9/14/2012	11/18/2014	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0230

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHODS AND SYSTEMS FOR COMPLETING, BY A SINGLE-SIGN ON COMPONENT, AN AUTHENTICATION PROCESS IN A FEDERATED ENVIRONMENT TO A RESOURCE NOT SUPPORTING FEDERATION	13/602899	8813203	9/4/2012	8/19/2014	Granted	CITRIX SYSTEMS, INC.
WAVEFRONT DETECTION AND DISAMBIGUATION OF ACKNOWLEDGEMENTS	13/600646	8553699	8/31/2012	10/8/2013	Granted	CITRIX SYSTEMS, INC.
REVERSE SEAMLESS INTEGRATION BETWEEN LOCAL AND REMOTE COMPUTING ENVIRONMENTS	13/600331	9210213	8/31/2012	12/8/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SUPPORTING A NETWORK PROFILE	13/593986	9742857	8/24/2012	8/22/2017	Granted	CITRIX SYSTEMS, INC.
SPECIALIZED VIRTUAL MACHINE TO VIRTUALIZE HARDWARE RESOURCE FOR GUEST VIRTUAL MACHINES	13/592891	9146762	8/23/2012	9/29/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR ESTABLISHING A VIRTUAL PRIVATE NETWORK	13/590630	8726006	8/21/2012	5/13/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR GSLB SITE PERSISTENCE	13/589796	8566450	8/20/2012	10/22/2013	Granted	CITRIX SYSTEMS, INC.
INTEGRATED APPLICATION LAUNCHING IN HETEROGENEOUS CLOUD COMPUTING ENVIRONMENT	13/588152	9256447	8/17/2012	2/9/2016	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR IDENTIFYING LONG MATCHES OF DATA IN A COMPRESSION HISTORY	13/567452	8832300	8/6/2012	9/9/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR GSLB SPILLOVER	13/560390	8769092	7/27/2012	7/1/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR PERFORMING FLASH CACHING OF DYNAMICALLY GENERATED OBJECTS IN A DATA COMMUNICATION NETWORK	13/558001	8848710	7/25/2012	9/30/2014	Granted	CITRIX SYSTEMS, INC.
ADAPTIVE BITRATE MANAGEMENT FOR STREAMING MEDIA OVER PACKET NETWORKS	13/557086	8621061	7/24/2012	12/31/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEM FOR AN OPEN ARCHITECTURE DEPLOYMENT PLATFORM WITH CENTRALIZED SYNCHRONIZATION	13/549975	8819194	7/26/2012	8/26/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR INPUT/OUTPUT ISOLATION	13/547635	8583837	7/12/2012	11/12/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF USING PACKET BOUNDARIES FOR REDUCTION IN TIMEOUT PREVENTION	13/544533	9496991	7/9/2012	11/15/2016	Granted	CITRIX SYSTEMS, INC.
PRIORITIZING CLASSES OF NETWORK TRAFFIC TO PROVIDE A	13/535350	9130864	6/27/2012	9/8/2015	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
PREDETERMINED QUALITY OF SERVICE						
PRIORITIZING HIGHLY COMPRESSED TRAFFIC TO PROVIDE A PREDETERMINED QUALITY OF SERVICE	13/535344	8831041	6/27/2012	9/9/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR OPTIMIZING SSL HANDSHAKE PROCESSING	13/533713	8615654	6/26/2012	12/24/2013	Granted	CITRIX SYSTEMS, INC.
MULTI-THREADED OPTIMIZATION FOR DATA UPLOAD	13/533507	8473585	6/26/2012	6/25/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SUPPORTING A SNMP REQUEST OVER A CLUSTER	13/525042	9015304	6/15/2012	4/21/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CLUSTER LAG	13/525039	8996652	6/15/2012	3/31/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DERIVING UNIQUE MAC ADDRESS FOR A CLUSTER	13/524977	9450859	6/15/2012	9/20/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROPAGATING HEALTH OF A CLUSTER NODE	13/524964	9071537	6/15/2012	6/30/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DYNAMIC ROUTING IN A CLUSTER	13/524923	8971323	6/15/2012	3/3/2015	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR VALIDATING A CONFIGURATION IN A CLUSTER	13/524841	8832241	6/15/2012	9/9/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR USING ECMP ROUTES FOR TRAFFIC DISTRIBUTION	13/524799	8972602	6/15/2012	3/3/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SHARING L2 INFORMATION AND MAC BASED FORWARDING	13/524784	9124514	6/15/2012	9/1/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR GENERATING IPID ACROSS A CLUSTER NETWORK	13/524766	9225806	6/15/2012	12/29/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR REASSEMBLY OF PACKETS DISTRIBUTED ACROSS A CLUSTER	13/524739	8804740	6/15/2012	8/12/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SUPPORTING IP OWNERSHIP IN A CLUSTER	13/524721	9374337	6/15/2012	6/21/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR FORWARDING TRAFFIC IN A CLUSTER NETWORK	13/524709	9866475	6/15/2012	1/9/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DISTRIBUTING TRAFFIC ACROSS CLUSTER NODES	13/524697	8891364	6/15/2012	11/18/2014	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR INTEGRATION BETWEEN APPLICATION FIREWALL AND CACHING	13/524692	8578099	6/15/2012	11/5/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ARP RESOLUTION OVER AN ASYNCHRONOUS CLUSTER NETWORK	13/524639	9794219	6/15/2012	10/17/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ADDRESS RESOLUTION PROTOCOL (ARP) RESOLUTION OVER A LINK AGGREGATION OF A CLUSTER CHANNEL	13/524624	9973468	6/15/2012	5/15/2018	Granted	CITRIX SYSTEMS, INC.
AUTOMATIC DETECTION AND WINDOW VIRTUALIZATION FOR FLOW CONTROL	13/523729	8824490	6/14/2012	9/2/2014	Granted	CITRIX SYSTEMS, INC.
INTERNET INFRASTRUCTURE SURVEY	13/502106	9385988	11/2/2010	7/5/2016	Granted	CITRIX SYSTEMS, INC.
DNS APPLICATION SERVER	13/502100	9553844	10/7/2010	1/24/2017	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FOR USING A LAYERED GEAR TO ANALYZE AND MANAGE REAL-TIME NETWORK QUALITY OF SERVICE TRANSMISSION FOR MOBILE DEVICES ON PUBLIC NETWORKS	13/492804	8774043	6/9/2012	7/8/2014	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEM FOR LOCALLY GENERATED GESTURE	13/492803	10353563	6/9/2012	7/16/2019	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
AND TRANSITION GRAPHICS INTERACTION WITH TERMINAL CONTROL SERVICES						
METHODS FOR ASSOCIATING AN IP ADDRESS TO A USER VIA AN APPLIANCE	13/486850	9154328	6/1/2012	10/6/2015	Granted	CITRIX SYSTEMS, INC.
REMOTE MANAGEMENT OF DISTRIBUTED DATACENTERS	13/480333	10235205	5/24/2012	3/19/2019	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ANALYZING NETWORK METRICS	13/479081	9015311	5/23/2012	4/21/2015	Granted	CITRIX SYSTEMS, INC.
AUTONOMOUS COMPUTER SESSION CAPACITY ESTIMATION	13/478710	9052953	5/23/2012	6/9/2015	Granted	CITRIX SYSTEMS, INC.
SHELL INTEGRATION ON A MOBILE DEVICE FOR AN APPLICATION EXECUTING REMOTELY ON A SERVER	13/475413	9032062	5/18/2012	5/12/2015	Granted	CITRIX SYSTEMS, INC.
MANAGING UNALLOCATED SERVER FARMS IN A DESKTOP VIRTUALIZATION SYSTEM	13/475299	9703581	5/18/2012	7/11/2017	Granted	CITRIX SYSTEMS, INC.
QUICKLY PROVISIONING A VIRTUAL MACHINE BY IDENTIFYING A PATH TO A DIFFERENTIAL FILE DURING PRE-BOOT	13/475200	9176744	5/18/2012	11/3/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SECURE HANDLING OF DATA	13/475082	9306737	5/18/2012	4/5/2016	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHODS AND SYSTEMS FOR VIRTUALIZING AUDIO HARDWARE FOR ONE OR MORE VIRTUAL MACHINES	13/475055	8972984	5/18/2012	3/3/2015	Granted	CITRIX SYSTEMS, INC.
SECURING ENCRYPTED VIRTUAL HARD DISKS	13/474936	8687814	5/18/2012	4/1/2014	Granted	CITRIX SYSTEMS, INC.
SHELL INTEGRATION FOR AN APPLICATION EXECUTING REMOTELY ON A SERVER	13/474238	9201709	5/17/2012	12/1/2015	Granted	CITRIX SYSTEMS, INC.
RECLAIMING MEMORY PAGES IN A COMPUTING SYSTEM HOSTING A SET OF VIRTUAL MACHINES	13/469457	9280458	5/11/2012	3/8/2016	Granted	CITRIX SYSTEMS, INC.
PROVIDING MULTIPLE LAYERS OF SECURITY TO FILE STORAGE BY AN EXTERNAL STORAGE PROVIDER	13/468603	8443456	5/10/2012	5/14/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CLOUD BRIDGING BETWEEN INTRANET RESOURCES AND CLOUD RESOURCES	13/464818	9253252	5/4/2012	2/2/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CLOUD BRIDGING BETWEEN PUBLIC AND PRIVATE CLOUDS	13/464773	9253159	5/4/2012	2/2/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SR-IOV PASS-THRU VIA AN INTERMEDIARY DEVICE	13/463287	9021475	5/3/2012	4/28/2015	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEM AND METHOD FOR TRANSFERRING DATA AMONG COMPUTING ENVIRONMENTS	13/460247	8612546	4/30/2012	12/17/2013	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR REMOTING THREE DIMENSIONAL GRAPHICS	13/460186	8405654	4/30/2012	3/26/2013	Granted	CITRIX SYSTEMS, INC.
MANAGING CLOUD ZONES	13/459830	8856885	4/30/2012	10/7/2014	Granted	CITRIX SYSTEMS, INC.
SECURE ADMINISTRATION OF VIRTUAL MACHINES	13/455221	8583920	4/25/2012	11/12/2013	Granted	CITRIX SYSTEMS, INC.
TRUSTED FILE INDIRECTION	13/453188	8819090	4/23/2012	8/26/2014	Granted	CITRIX SYSTEMS, INC.
RESPONSIVE SCROLLER CONTROLS IN SERVER-HOSTED APPLICATIONS	13/445504	9558013	4/12/2012	1/31/2017	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR COMMUNICATING BETWEEN ISOLATION ENVIRONMENTS	13/434645	9009720	3/29/2012	4/14/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF UTF-8 PATTERN MATCHING	13/431776	8819045	3/27/2012	8/26/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR TRACKING APPLICATION LAYER FLOW VIA A MULTI-CONNECTION INTERMEDIARY DEVICE	13/431766	9571354	3/27/2012	2/14/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR COMPARING CONFIGURATION FILES	13/414105	9088491	3/7/2012	7/21/2015	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
AND GENERATING CORRECTIVE COMMANDS						
SYSTEMS AND METHODS OF QOS FOR SINGLE STREAM ICA	13/413508	9237106	3/6/2012	1/12/2016	Granted	CITRIX SYSTEMS, INC.
TRANSPARENT USER INTERFACE INTEGRATION BETWEEN LOCAL AND REMOTE COMPUTING ENVIRONMENTS	13/410659	8866701	3/2/2012	10/21/2014	Granted	CITRIX SYSTEMS, INC.
ASSIGNING STATES TO CLOUD RESOURCES	13/409751	9213568	3/1/2012	12/15/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR LOAD BALANCING REAL TIME STREAMING	13/407403	8271666	2/28/2012	9/18/2012	Granted	CITRIX SYSTEMS, INC.
SECURE SINGLE SIGN-ON	13/407133	9032496	2/28/2012	5/12/2015	Granted	CITRIX SYSTEMS, INC.
WINDOW REGULATOR FOR IMPROVED PERFORMANCE IN A COMMUNICATIONS NETWORK	13/404655	9059934	2/24/2012	6/16/2015	Granted	CITRIX SYSTEMS, INC.
HIERARCHICAL DISPLAY	13/402179	9423994	2/22/2012	8/23/2016	Granted	CITRIX SYSTEMS, INC.
DYNAMIC TIME REVERSAL OF A TREE OF IMAGES OF A VIRTUAL HARD DISK	13/401341	8856078	2/21/2012	10/7/2014	Granted	CITRIX SYSTEMS, INC.
USER INTERFACE FOR LARGE SCALE SYSTEM MONITORING	13/398302	9176638	2/16/2012	11/3/2015	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
CONNECTION LEASING FOR HOSTED SERVICES	13/398008	8990898	2/16/2012	3/24/2015	Granted	CITRIX SYSTEMS, INC.
CLIENT BANDWIDTH EMULATION IN HOSTED SERVICES	13/372705	9294549	2/14/2012	3/22/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR EMULATING A NIC FOR PACKET TRANSMISSION ON HARDWARE RSS UNAWARE NICS IN A MULTI-CORE SYSTEM	13/371862	9071499	2/13/2012	6/30/2015	Granted	CITRIX SYSTEMS, INC.
VIRTUAL MACHINE PROVISIONING BASED ON TAGGED PHYSICAL RESOURCES IN A CLOUD COMPUTING ENVIRONMENT	13/369930	9038083	2/9/2012	5/19/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR NTIER CACHE REDIRECTION	13/369151	8996614	2/8/2012	3/31/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING A PLURALITY OF USER SESSIONS IN A VIRTUAL PRIVATE NETWORK ENVIRONMENT	13/362346	8356101	1/31/2012	1/15/2013	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEM FOR ENABLING COMMUNICATION OF IDENTITY INFORMATION DURING ONLINE TRANSACTION	13/358494	9256901	1/25/2012	2/9/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR FACILITATING DISTRIBUTED AUTHENTICATION	13/349370	8621587	1/12/2012	12/31/2013	Granted	CITRIX SYSTEMS, INC.

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REEL: 062079 FRAME: 0240

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR OPTIMIZING SSL HANDSHAKE PROCESSING	13/346314	8793486	1/9/2012	7/29/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MULTI-LEVEL TAGGING OF ENCRYPTED ITEMS FOR ADDITIONAL SECURITY AND EFFICIENT ENCRYPTED ITEM DETERMINATION	13/337735	8862870	12/27/2011	10/14/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR VLAN TAGGING VIA CLOUD BRIDGE	13/337726	9325525	12/27/2011	4/26/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR POLICY BASED ROUTING FOR MULTIPLE NEXT HOPS	13/337716	9178805	12/27/2011	11/3/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR POLICY BASED INTEGRATION TO HORIZONTALLY DEPLOYED WAN OPTIMIZATION APPLIANCES	13/337712	9065866	12/27/2011	6/23/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SCALABLE N-CORE STATS AGGREGATION	13/337706	8949414	12/27/2011	2/3/2015	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FOR GENERATING GRAPHICAL AND MEDIA DISPLAYS AT A CLIENT	13/336668	8671213	12/23/2011	3/11/2014	Granted	CITRIX SYSTEMS, INC.
ACTIVE AND PASSIVE PERSONALIZATION TECHNIQUES	13/330275	9159082	12/19/2011	10/13/2015	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0241

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR IMPLEMENTING CONNECTION MIRRORING IN A MULTI-CORE SYSTEM	13/330164	9047251	12/19/2011	6/2/2015	Granted	CITRIX SYSTEMS, INC.
SELECTING AN INSTANCE OF A RESOURCE USING NETWORK ROUTABILITY INFORMATION	13/329841	9450860	12/19/2011	9/20/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DATABASE PROXY REQUEST SWITCHING	13/327253	9589029	12/15/2011	3/7/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR LOAD BALANCING VIA A PLURALITY OF VIRTUAL SERVERS UPON FAILOVER USING METRICS FROM A BACKUP VIRTUAL SERVER	13/302880	8812904	11/22/2011	8/19/2014	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FOR SCALABLE SECURE REMOTE DESKTOP ACCESS	13/294965	8719433	11/11/2011	5/6/2014	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FACILITATING ACCESS TO STORAGE AMONG MULTIPLE COMPUTERS	13/290942	8364726	11/7/2011	1/29/2013	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR LAUNCHING APPLICATIONS INTO EXISTING ISOLATION ENVIRONMENTS	13/290621	8326943	11/7/2011	12/4/2012	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR IDENTIFYING LONG MATCHES OF DATA IN A COMPRESSION HISTORY	13/286869	8244852	11/1/2011	8/14/2012	Granted	CITRIX SYSTEMS, INC.
DEPLOYING A COPY OF A DISK IMAGE FROM SOURCE STORAGE TO TARGET STORAGE	13/285699	8856486	10/31/2011	10/7/2014	Granted	CITRIX SYSTEMS, INC.
CONTROLLING INFORMATION DISCLOSURE DURING APPLICATION STREAMING AND PUBLISHING	13/285362	8997172	10/31/2011	3/31/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING DOMAIN NAME SYSTEM SECURITY (DNSSEC)	13/284492	8910245	10/28/2011	12/9/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SHARING COMPRESSION HISTORIES BETWEEN MULTIPLE DEVICES	13/276097	8786473	10/18/2011	7/22/2014	Granted	CITRIX SYSTEMS, INC.
METHOD AND APPARATUS FOR SEARCHING A HIERARCHICAL DATABASE AND AN UNSTRUCTURED DATABASE WITH A SINGLE SEARCH QUERY	13/272040	9129005	10/12/2011	9/8/2015	Granted	CITRIX SYSTEMS, INC.
MEDIATING RESOURCE ACCESS BASED ON A PHYSICAL LOCATION OF A MOBILE DEVICE	13/267031	8789144	10/6/2011	7/22/2014	Granted	CITRIX SYSTEMS, INC.
GESTURE SUPPORT FOR SHARED SESSIONS	13/253646	9152436	10/5/2011	10/6/2015	Granted	CITRIX SYSTEMS, INC.

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REEL: 062079 FRAME: 0243

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
TOUCH SUPPORT FOR REMOTED APPLICATIONS	13/253452	9110581	10/5/2011	8/18/2015	Granted	CITRIX SYSTEMS, INC.
LOAD BALANCING IN MULTI-SERVER VIRTUAL WORKPLACE ENVIRONMENTS	13/253426	8850429	10/5/2011	9/30/2014	Granted	CITRIX SYSTEMS, INC.
DISPLAY MANAGEMENT FOR NATIVE USER EXPERIENCES	13/253414	9400585	10/5/2011	7/26/2016	Granted	CITRIX SYSTEMS, INC.
VIRTUAL WORKPLACE SOFTWARE BASED ON ORGANIZATION CHARACTERISTICS	13/253370	8732290	10/5/2011	5/20/2014	Granted	CITRIX SYSTEMS, INC.
PROVIDING USER INTERFACES AND WINDOW PREVIEWS FOR HOSTED APPLICATIONS	13/252557	8713474	10/4/2011	4/29/2014	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR ASSIGNING ACCESS CONTROL LEVELS IN PROVIDING ACCESS TO NETWORKED CONTENT FILES	13/243402	8352606	9/23/2011	1/8/2013	Granted	CITRIX SYSTEMS, INC.
INFERRING SERVER STATE IN A STATELESS COMMUNICATION PROTOCOL	13/240998	8521909	9/22/2011	8/27/2013	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR PROVIDING, BY A REMOTE MACHINE, ACCESS TO FUNCTIONALITY ASSOCIATED WITH A RESOURCE EXECUTING ON A LOCAL MACHINE	13/240971	8341208	9/22/2011	12/25/2012	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHODS AND SYSTEMS FOR CATALOGING TEXT IN A RECORDED SESSION	13/237047	8615159	9/20/2011	12/24/2013	Granted	CITRIX SYSTEMS, INC.
MANAGED DESKTOP SYSTEM	13/234474	8543797	9/16/2011	9/24/2013	Granted	CITRIX SYSTEMS, INC.
INFERENCING DATA TYPES OF MESSAGE COMPONENTS	13/212068	8695084	8/17/2011	4/8/2014	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR VERIFICATION OF AN ENDPOINT SECURITY SCAN	13/208970	8312261	8/12/2011	11/13/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR RECEIVE AND TRANSMISSION QUEUE PROCESSING IN A MULTI-CORE ARCHITECTURE	13/208093	9112819	8/11/2011	8/18/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PACKET STEERING IN A MULTI-CORE ARCHITECTURE	13/190143	8654791	7/25/2011	2/18/2014	Granted	CITRIX SYSTEMS, INC.
VIRTUAL INLINE CONFIGURATION FOR A NETWORK DEVICE	13/186350	9100449	7/19/2011	8/4/2015	Granted	CITRIX SYSTEMS, INC.
TRANSPARENT LAYER 2 REDIRECTION OF REQUEST TO SINGLE SIGN IN SERVICE BASED ON APPLYING POLICY TO CONTENT OF REQUEST	13/173216	8745266	6/30/2011	6/3/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING A VPN SOLUTION	13/149383	8559449	5/31/2011	10/15/2013	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0245

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHODS AND SYSTEMS FOR PROVIDING, BY A REMOTE MACHINE, ACCESS TO A DESK BAND ASSOCIATED WITH A RESOURCE EXECUTING ON A LOCAL MACHINE	13/110787	8484290	5/18/2011	7/9/2013	Granted	CITRIX SYSTEMS, INC.
INTERPRETING A GESTURE-BASED INSTRUCTION TO SELECTIVELY DISPLAY A FRAME OF AN APPLICATION USER INTERFACE ON A MOBILE COMPUTING DEVICE	13/108836	8730269	5/16/2011	5/20/2014	Granted	CITRIX SYSTEMS, INC.
REDIRECTION OF INFORMATION FROM SECURE VIRTUAL MACHINES TO UNSECURE VIRTUAL MACHINES	13/103350	8869300	5/9/2011	10/21/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ALLOCATION OF CLASSES OF SERVICE TO NETWORK CONNECTIONS CORRESPONDING TO VIRTUAL CHANNELS	13/103318	9288137	5/9/2011	3/15/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING A SINGLE CLICK ACCESS TO ENTERPRISE, SAAS AND CLOUD HOSTED APPLICATION	13/102937	9461996	5/6/2011	10/4/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING SINGLE SIGN ON ACCESS TO ENTERPRISE SAAS AND CLOUD HOSTED APPLICATIONS	13/102902	9282097	5/6/2011	3/8/2016	Granted	CITRIX SYSTEMS, INC.
CREATION AND DELIVERY OF ENCRYPTED VIRTUAL DISKS	13/102793	9311509	5/6/2011	4/12/2016	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0246

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHODS AND SYSTEMS FOR DELIVERING APPLICATIONS FROM A DESKTOP OPERATING SYSTEM	13/102301	9244700	5/6/2011	1/26/2016	Granted	CITRIX SYSTEMS, INC.
CONTINUOUS UPGRADING OF COMPUTERS IN A LOAD BALANCED ENVIRONMENT	13/100936	8533337	5/4/2011	9/10/2013	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR FORCING AN APPLICATION TO STORE DATA IN A SECURE STORAGE LOCATION	13/098727	8707457	5/2/2011	4/22/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ROUTING VPN TRAFFIC AROUND NETWORK DISTRIBUTION	13/093703	8621105	4/25/2011	12/31/2013	Granted	CITRIX SYSTEMS, INC.
INTERACTING WITH REMOTE APPLICATIONS DISPLAYED WITHIN A VIRTUAL DESKTOP OF A TABLET COMPUTING DEVICE	13/078846	9740507	4/1/2011	8/22/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR HANDLING NIC CONGESTION VIA NIC AWARE APPLICATION	13/073709	8644157	3/28/2011	2/4/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR LEARNING MSS OF SERVICES	13/073705	8717916	3/28/2011	5/6/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR LINK LOAD BALANCING ON A MULTI-CORE DEVICE	13/072276	8588066	3/25/2011	11/19/2013	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHOD AND APPARATUS FOR MOVING PROCESSES BETWEEN ISOLATION ENVIRONMENTS	13/052931	8352964	3/21/2011	1/8/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR PERFORMING FLASH CROWD CACHING OF DYNAMICALLY GENERATED OBJECTS IN A DATA COMMUNICATION NETWORK	13/031919	8499057	2/22/2011	7/30/2013	Granted	CITRIX SYSTEMS, INC.
EVENT AND STATE MANAGEMENT IN A SCALABLE CLOUD COMPUTING ENVIRONMENT	13/020803	8856319	2/3/2011	10/7/2014	Granted	CITRIX SYSTEMS, INC.
NETWORK FRAGMENTATION AND VIRTUAL MACHINE MIGRATION IN A SCALABLE CLOUD COMPUTING ENVIRONMENT	13/020802	8874749	2/3/2011	10/28/2014	Granted	CITRIX SYSTEMS, INC.
SCALABLE CLOUD COMPUTING	13/020799	8650299	2/3/2011	2/11/2014	Granted	CITRIX SYSTEMS, INC.
VIDEO-VOICEMAIL SOLUTION FOR WIRELESS COMMUNICATION DEVICES	13/018314	RE44732	1/31/2011	1/28/2014	Granted Reissued	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MONITORING COMPONENTS OF A REMOTE ACCESS SERVER FARM	13/011580	8832260	1/21/2011	9/9/2014	Granted	CITRIX SYSTEMS, INC.
AUTOMATICALLY RECONNECTING A CLIENT ACROSS RELIABLE AND PERSISTENT COMMUNICATION SESSIONS	13/008634	8874791	1/18/2011	10/28/2014	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
HOSTED SEARCHING OF PRIVATE LOCAL AREA NETWORK INFORMATION	12/987292	8285705	1/10/2011	10/9/2012	Granted	CITRIX SYSTEMS, INC.
HOSTED SEARCHING OF PRIVATE LOCAL AREA NETWORK INFORMATION WITH SUPPORT FOR ADD-ON APPLICATION	12/987269	8285704	1/10/2011	10/9/2012	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR PROVIDING, BY A REMOTE MACHINE, ACCESS TO GRAPHICAL DATA ASSOCIATED WITH A RESOURCE PROVIDED BY A LOCAL MACHINE	12/986704	8296352	1/7/2011	10/23/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING DYNAMIC AD HOC PROXY-CACHE HIERARCHIES	12/981266	8352605	12/29/2010	1/8/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR A VPN ICA PROXY ON A MULTI-CORE SYSTEM	12/977725	9055064	12/23/2010	6/9/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHODS FOR MIXED MODE OF IPV6 AND IPV4 DNS OF GLOBAL SERVER LOAD BALANCING	12/976710	8825859	12/22/2010	9/2/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING PORTS FOR RTSP ACROSS CORES IN A MULTI-CORE SYSTEM	12/976706	8635344	12/22/2010	1/21/2014	Granted	CITRIX SYSTEMS, INC.

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REEL: 062079 FRAME: 0249

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR MANAGING SPILLOVER LIMITS IN A MULTI-CORE SYSTEM	12/976697	9098335	12/22/2010	8/4/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR INTERCEPTING AND AUTOMATICALLY FILLING IN FORMS BY THE APPLIANCE FOR SINGLE-SIGN ON	12/976693	8453225	12/22/2010	5/28/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR AAA-TRAFFIC MANAGEMENT INFORMATION SHARING ACROSS CORES IN A MULTI-CORE SYSTEM	12/976688	8667575	12/22/2010	3/4/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR REWRITING A STREAM OF DATA VIA INTERMEDIARY	12/976683	8724654	12/22/2010	5/13/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGEMENT OF COMMON APPLICATION FIREWALL SESSION DATA IN A MULTIPLE CORE SYSTEM	12/976678	8413225	12/22/2010	4/2/2013	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR SECURING SENSITIVE INFORMATION USING A HYPERVISOR-TRUSTED CLIENT	12/968091	9804866	12/14/2010	10/31/2017	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR COMMUNICATING BETWEEN TRUSTED AND NON-TRUSTED VIRTUAL MACHINES	12/968084	8689213	12/14/2010	4/1/2014	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SERVICING INTERRUPTS GENERATED RESPONSIVE TO ACTUATION OF HARDWARE, VIA DYNAMIC INCORPORATION OF ACPI FUNCTIONALITY INTO VIRTUAL FIRMWARE	12/968082	8650565	12/14/2010	2/11/2014	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR PROVIDING TO VIRTUAL MACHINES, VIA A DESIGNATED WIRELESS LOCAL AREA NETWORK DRIVER, ACCESS TO DATA ASSOCIATED WITH A CONNECTION TO A WIRELESS LOCAL AREA NETWORK	12/968077	8924571	12/14/2010	12/30/2014	Granted	CITRIX SYSTEMS, INC.
MANAGING FORWARDING OF INPUT EVENTS IN A VIRTUALIZATION ENVIRONMENT TO PREVENT KEYLOGGING ATTACKS	12/968069	8869144	12/14/2010	10/21/2014	Granted	CITRIX SYSTEMS, INC.
SECURE VIRTUALIZATION ENVIRONMENT BOOTABLE FROM AN EXTERNAL MEDIA DEVICE	12/968066	8560826	12/14/2010	10/15/2013	Granted	CITRIX SYSTEMS, INC.
DYNAMICALLY CONTROLLING VIRTUAL MACHINE ACCESS TO OPTICAL DISC DRIVE BY SELECTIVE LOCKING TO A TRANSACTING VIRTUAL MACHINE DETERMINED FROM A TRANSACTION STREAM OF THE DRIVE	12/967362	8661436	12/14/2010	2/25/2014	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR ALLOCATING A USB DEVICE TO A	12/967358	8646028	12/14/2010	2/4/2014	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
TRUSTED VIRTUAL MACHINE OR A NON-TRUSTED VIRTUAL MACHINE						
METHODS AND SYSTEMS FOR PREVENTING ACCESS TO DISPLAY GRAPHICS GENERATED BY A TRUSTED VIRTUAL MACHINE	12/967348	8627456	12/14/2010	1/7/2014	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR OPTIMIZING A PROCESS OF ARCHIVING AT LEAST ONE BLOCK OF A VIRTUAL DISK IMAGE	12/967260	9122414	12/14/2010	9/1/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SERVICE ISOLATION	12/967020	9055080	12/13/2010	6/9/2015	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR DISPLAYING, ON A FIRST MACHINE, DATA ASSOCIATED WITH A DRIVE OF A SECOND MACHINE, WITHOUT MAPPING THE DRIVE	12/964477	8667050	12/9/2010	3/4/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR A CLIENT-SIDE REMOTE PRESENTATION OF A MULTIMEDIA STREAM	12/963539	9203883	12/8/2010	12/1/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR REMOTELY PRESENTING A MULTIMEDIA STREAM	12/963535	9191425	12/8/2010	11/17/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CLIENT IP ADDRESS INSERTION VIA TCP OPTIONS	12/954319	9088611	11/24/2010	7/21/2015	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHODS AND SYSTEMS FOR SELECTIVE IMPLEMENTATION OF PROGRESSIVE DISPLAY TECHNIQUES	12/947647	8111086	11/16/2010	2/7/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO SECURE A VIRTUAL APPLIANCE	12/912599	9094210	10/26/2010	7/28/2015	Granted	CITRIX SYSTEMS, INC.
FORM COMPLETION RATE ENHANCEMENT SYSTEM AND METHOD	12/908847	9436668	10/20/2010	9/6/2016	Granted	CITRIX SYSTEMS, INC.
COMPUTER FORM ACTION ZONE SUMMARY SYSTEM AND METHOD	12/908840	9286281	10/20/2010	3/15/2016	Granted	CITRIX SYSTEMS, INC.
DOCUMENT SIGNING SYSTEMS AND METHODS	12/908827	9594739	10/20/2010	3/14/2017	Granted	CITRIX SYSTEMS, INC.
ALLOCATING VIRTUAL MACHINES ACCORDING TO USER-SPECIFIC VIRTUAL MACHINE METRICS	12/902542	8856783	10/12/2010	10/7/2014	Granted	CITRIX SYSTEMS, INC.
ENFORCEMENT OF NETWORK SERVICE LEVEL AGREEMENTS	12/899004	8275711	10/6/2010	9/25/2012	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR UPDATING A DOCK WITH A USER INTERFACE ELEMENT REPRESENTATIVE OF A REMOTE APPLICATION	12/897871	9268466	10/5/2010	2/23/2016	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR GENERATING A COMBINED DISPLAY	12/897863	8769428	10/5/2010	7/1/2014	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0253

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
OF TASKBAR BUTTON GROUP ENTRIES GENERATED ON A LOCAL MACHINE AND ON A REMOTE MACHINE						
DYNAMIC REALLOCATION OF PHYSICAL MEMORY RESPONSIVE TO VIRTUAL MACHINE EVENTS	12/895750	8667207	9/30/2010	3/4/2014	Granted	CITRIX SYSTEMS, INC.
SYNCHRONIZATION OF SERVER-SIDE COOKIES WITH CLIENT-SIDE COOKIES	12/893080	8924592	9/29/2010	12/30/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING QUALITY OF SERVICE VIA A FLOW CONTROLLED TUNNEL	12/893025	8433783	9/29/2010	4/30/2013	Granted	CITRIX SYSTEMS, INC.
REMOTE RENDERING OF THREE-DIMENSIONAL IMAGES USING VIRTUAL MACHINES	12/881119	9092249	9/13/2010	7/28/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SELF-LOADING BALANCING ACCESS GATEWAYS	12/877238	9037712	9/8/2010	5/19/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR AUTOMATIC INSTALLATION AND EXECUTION OF A CLIENT-SIDE ACCELERATION PROGRAM	12/874927	8856777	9/2/2010	10/7/2014	Granted	CITRIX SYSTEMS, INC.
MULTILAYER ACCESS CONTROL SECURITY SYSTEM	12/873042	8528047	8/31/2010	9/3/2013	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR COMMUNICATING A LOSSY PROTOCOL VIA A LOSSLESS PROTOCOL USING FALSE ACKNOWLEDGEMENTS	12/871246	8351333	8/30/2010	1/8/2013	Granted	CITRIX SYSTEMS, INC.
PROTECTING DATA INTEGRITY IN AN ENHANCED NETWORK CONNECTION	12/858354	8050271	8/17/2010	11/1/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR QUALITY OF SERVICE OF ENCRYPTED NETWORK TRAFFIC	12/855335	8638795	8/12/2010	1/28/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR QUALITY OF SERVICE OF ICA PUBLISHED APPLICATIONS	12/855327	8990380	8/12/2010	3/24/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MULTI-LEVEL QUALITY OF SERVICE CLASSIFICATION IN AN INTERMEDIARY DEVICE	12/855324	8792491	8/12/2010	7/29/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR COOKIE PROXY JAR MANAGEMENT ACROSS CORES IN A MULTI-CORE SYSTEM	12/851449	8484287	8/5/2010	7/9/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR IIP ADDRESS SHARING ACROSS CORES IN A MULTI-CORE SYSTEM	12/851438	8589575	8/5/2010	11/19/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SERVER INITIATED CONNECTION	12/851430	8533312	8/5/2010	9/10/2013	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
MANAGEMENT IN A MULTI-CORE SYSTEM						
SYSTEMS AND METHODS FOR DATABASE NOTIFICATION INTERFACE TO EFFICIENTLY IDENTIFY EVENTS AND CHANGED DATA	12/841003	9292587	7/21/2010	3/22/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR AN EXTENSIBLE AUTHENTICATION FRAMEWORK	12/840932	9686255	7/21/2010	6/20/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING A SMART GROUP	12/840632	8839346	7/21/2010	9/16/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR PERFORMING ENTITY TAG AND CACHE CONTROL OF A DYNAMICALLY GENERATED OBJECT NOT IDENTIFIED AS CACHEABLE IN A NETWORK	12/838171	7849270	7/16/2010	12/7/2010	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF REVALIDATING CACHED OBJECTS IN PARALLEL WITH REQUEST FOR OBJECT	12/835430	8615583	7/13/2010	12/24/2013	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR LOAD BALANCING USING FORECASTING AND OVERBOOKING TECHNIQUES	12/827610	8914527	6/30/2010	12/16/2014	Granted	CITRIX SYSTEMS, INC.

PATENT
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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
RULE GENERALIZATION FOR WEB APPLICATION ENTRY POINT MODELING	12/827415	8695083	6/30/2010	4/8/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT TO MAXIMIZE SERVER THROUGHPUT WHILE AVOIDING SERVER OVERLOAD BY CONTROLLING THE RATE OF ESTABLISHING SERVER-SIDE NETWORK CONNECTIONS	12/823890	8635363	6/25/2010	1/21/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF PROVIDING SERVER INITIATED CONNECTIONS ON A VIRTUAL PRIVATE NETWORK	12/823643	8271661	6/25/2010	9/18/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DETECTING INCOMPLETE REQUESTS, TCP TIMEOUTS AND APPLICATION TIMEOUTS	12/822825	8843645	6/24/2010	9/23/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR STATEFUL SESSION FAILOVER BETWEEN MULTI-CORE APPLIANCES	12/820948	8335943	6/22/2010	12/18/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF STATE MIGRATION IN A MULTI-CORE SYSTEM	12/820850	8352633	6/22/2010	1/8/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR WEB LOGGING OF TRACE DATA IN A MULTI-CORE SYSTEM	12/820736	8219676	6/22/2010	7/10/2012	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS OF HANDLING NON-HTTP CLIENT OR SERVER PUSH ON HTTP VSERVER	12/820730	8214505	6/22/2010	7/3/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SPILLOVER IN A MULTI-CORE SYSTEM	12/820607	8429652	6/22/2010	4/23/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING LINK MANAGEMENT IN A MULTI-CORE SYSTEM	12/820384	9077590	6/22/2010	7/7/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PLATFORM RATE LIMITING	12/818882	9071526	6/18/2010	6/30/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHOD FOR TRANSACTION STALL DETECTION AND PROPAGATING THE RESULT IN A MULTI-CORE ARCHITECTURE	12/818614	8381026	6/18/2010	2/19/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR INITIALIZATION AND LINK MANAGEMENT OF NICS IN A MULTI-CORE ENVIRONMENT	12/818306	8892783	6/18/2010	11/18/2014	Granted	CITRIX SYSTEMS, INC.
POLICY BASED NETWORK ADDRESS TRANSLATION	12/795496	8194673	6/7/2010	6/5/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR ESTABLISHING A VIRTUAL PRIVATE NETWORK	12/794446	8261057	6/4/2010	9/4/2012	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHOD AND SYSTEMS FOR EFFICIENT DELIVERY OF PREVIOUSLY STORED CONTENT	12/790400	8838630	5/28/2010	9/16/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR IDENTIFYING LONG MATCHES OF DATA IN A COMPRESSION HISTORY	12/788023	8051127	5/26/2010	11/1/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR COMMUNICATING A LOSSY PROTOCOL VIA A LOSSLESS PROTOCOL	12/787231	8634420	5/25/2010	1/21/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING VIRTUAL FAIR QUEUING OF NETWORK TRAFFIC	12/784883	8531944	5/21/2010	9/10/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING QUALITY OF SERVICE PRECEDENCE IN TCP CONGESTION CONTROL	12/784872	8462631	5/21/2010	6/11/2013	Granted	CITRIX SYSTEMS, INC.
EARLY GENERATION OF ACKNOWLEDGEMENTS FOR FLOW CONTROL	12/784863	8462630	5/21/2010	6/11/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND ALGORITHM FOR INTERFACING WITH A VIRTUALIZED COMPUTING SERVICE OVER A NETWORK USING A LIGHTWEIGHT CLIENT	12/784468	8392497	5/20/2010	3/5/2013	Granted	CITRIX SYSTEMS, INC.
METHODS FOR INTERFACING WITH A VIRTUALIZED COMPUTING	12/784454	8676949	5/20/2010	3/18/2014	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SERVICE OVER A NETWORK USING A LIGHTWEIGHT CLIENT						
METHOD AND APPARATUS FOR ASSOCIATING TICKETS IN A TICKET HIERARCHY	12/783266	8286230	5/19/2010	10/9/2012	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR GENERATING AND DELIVERING AN INTERACTIVE APPLICATION DELIVERY STORE	12/773007	9152401	5/3/2010	10/6/2015	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR PROVIDING A CONSISTENT PROFILE TO OVERLAPPING USER SESSIONS	12/772980	8725791	5/3/2010	5/13/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ESTABLISHING A CLOUD BRIDGE BETWEEN VIRTUAL STORAGE RESOURCES	12/772977	8578076	5/3/2010	11/5/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING A VIRTUAL APPLIANCE IN AN APPLICATION DELIVERY FABRIC	12/771580	8868724	4/30/2010	10/21/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING A MULTI-CORE ARCHITECTURE FOR AN ACCELERATION APPLIANCE	12/766324	8503459	4/23/2010	8/6/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SPLIT PROXYING OF SSL VIA WAN APPLIANCES	12/764633	8543805	4/21/2010	9/24/2013	Granted	CITRIX SYSTEMS, INC.

PATENT
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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEM AND METHOD FOR EVENT DETECTION AND RE-DIRECTION OVER A NETWORK USING A PRESENTATION LEVEL PROTOCOL	12/763492	8190676	4/20/2010	5/29/2012	Granted	CITRIX SYSTEMS, INC.
DEEP PACKET SCAN HACKER IDENTIFICATION	12/758456	8001244	4/12/2010	8/16/2011	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR MODIFYING DISK IMAGES TO PROVIDE NETWORK INTERFACE CARD TEAMING CAPABILITIES	12/754397	8386762	4/5/2010	2/26/2013	Granted	CITRIX SYSTEMS, INC.
METHOD AND APPLIANCE FOR USING A DYNAMIC RESPONSE TIME TO DETERMINE RESPONSIVENESS OF NETWORK SERVICES	12/753516	8230055	4/2/2010	7/24/2012	Granted	CITRIX SYSTEMS, INC.
STORAGE OPTIMIZATION SELECTION WITHIN A VIRTUALIZATION ENVIRONMENT	12/750089	8413142	3/30/2010	4/2/2013	Granted	CITRIX SYSTEMS, INC.
NETWORK POLICY IMPLEMENTATION FOR A MULTI-VIRTUAL MACHINE APPLIANCE WITHIN A VIRTUALIZATION ENVIRONTMENT	12/729772	8887227	3/23/2010	11/11/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MONITORING AND MAINTAINING CONSISTENCY OF A CONFIGURATION	12/729524	9141580	3/23/2010	9/22/2015	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0261

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHODS AND SYSTEMS FOR APPROXIMATING PROGRESSIVE IMAGE ENCODING USING IMAGE PARTITIONING	12/728740	8559733	3/22/2010	10/15/2013	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR PRIORITIZING DIRTY REGIONS WITHIN AN IMAGE	12/728729	8559755	3/22/2010	10/15/2013	Granted	CITRIX SYSTEMS, INC.
VIDEO TRAFFIC, QUALITY OF SERVICE AND ENGAGEMENT ANALYTICS SYSTEM AND METHOD	12/719693	10015543	3/8/2010	7/3/2018	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF PROVIDING PROXY-BASED QUALITY OF SERVICE	12/718844	8184534	3/5/2010	5/22/2012	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR EFFICIENTLY REDUCING GRAPHICAL DISPLAY DATA FOR TRANSMISSION OVER A LOW BANDWIDTH TRANSPORT PROTOCOL MECHANISM	12/709179	8290907	2/19/2010	10/16/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR INTERMEDIARIES TO COMPRESS DATA COMMUNICATED VIA A REMOTE DISPLAY PROTOCOL	12/709172	9083759	2/19/2010	7/14/2015	Granted	CITRIX SYSTEMS, INC.
METHOD FOR LOSSLESS DATA REDUCTION OF REDUNDANT PATTERNS	12/704056	8560552	2/11/2010	10/15/2013	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0262

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
MOBILE BROADBAND PACKET SWITCHED TRAFFIC OPTIMIZATION	12/702807	9325625	2/9/2010	4/26/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF USING SSL POOLS FOR WAN ACCELERATION	12/696333	9479480	1/29/2010	10/25/2016	Granted	CITRIX SYSTEMS, INC.
USING STATISTICAL ANALYSIS TO GENERATE EXCEPTION RULES THAT ALLOW LEGITIMATE MESSAGES TO PASS THROUGH APPLICATION PROXIES AND GATEWAYS	12/694902	8261340	1/27/2010	9/4/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHODS FOR AUTOMATIC TIME-WARPED PLAYBACK IN RENDERING A RECORDED COMPUTER SESSION	12/685507	8422851	1/11/2010	4/16/2013	Granted	CITRIX SYSTEMS, INC.
MOBILE BROADBAND PACKET SWITCHED TRAFFIC OPTIMIZATION	12/684427	8514697	1/8/2010	8/20/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR INPUT/OUTPUT ISOLATION	12/652264	8250262	1/5/2010	8/21/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR GENERATING AND MANAGING COOKIE SIGNATURES FOR PREVENTION OF HTTP DENIAL OF SERVICE IN MULTI-CORE SYSTEM	12/645938	8380994	12/23/2009	2/19/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CROSS SITE FORGERY PROTECTION	12/645924	8640216	12/23/2009	1/28/2014	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR PREVENTION OF JSON ATTACKS	12/645913	9094435	12/23/2009	7/28/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR FLASH CROWD CONTROL AND BATCHING OCSP REQUESTS VIA ONLINE CERTIFICATE STATUS PROTOCOL	12/645907	8627063	12/23/2009	1/7/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR LISTENING POLICIES FOR VIRTUAL SERVERS OF APPLIANCE	12/645889	8654659	12/23/2009	2/18/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING STATIC PROXIMITY IN MULTI-CORE GSLB APPLIANCE	12/645882	8635367	12/23/2009	1/21/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MAINTAINING TRANSPARENT END TO END CACHE REDIRECTION	12/645874	8769156	12/23/2009	7/1/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR QUEUE LEVEL SSL CARD MAPPING TO MULTI-CORE PACKET ENGINE	12/645869	8675674	12/23/2009	3/18/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MIXED MODE HANDLING OF IPV6 AND IPV4 TRAFFIC BY A VIRTUAL SERVER	12/645864	9054943	12/23/2009	6/9/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR OBJECT RATE LIMITING IN MULTI-CORE SYSTEM	12/645860	8452835	12/23/2009	5/28/2013	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR MANAGING DYNAMIC PROXIMITY IN MULTI-CORE GSLB APPLIANCE	12/645848	8230054	12/23/2009	7/24/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROCESSING APPLICATION FIREWALL SESSION INFORMATION ON OWNER CORE IN MULTIPLE CORE SYSTEM	12/645845	8438626	12/23/2009	5/7/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR GSLB SPILLOVER	12/645844	8255528	12/23/2009	8/28/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR POLICY BASED TRANSPARENT CLIENT IP INSERTION	12/645833	8200752	12/23/2009	6/12/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING PREFERRED CLIENT CONNECTIVITY TO SERVERS VIA MULTI-CORE SYSTEM	12/645828	8392562	12/23/2009	3/5/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR GSLB MEP CONNECTION MANAGEMENT ACROSS MULTIPLE CORE APPLIANCES	12/645822	8412832	12/23/2009	4/2/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DETERMINING A GOOD RSS KEY	12/645816	8082359	12/23/2009	12/20/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SERVER SURGE PROTECTION IN A MULTI-CORE SYSTEM	12/645803	8463887	12/23/2009	6/11/2013	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR POLICY BASED INTEGRATION TO HORIZONTALLY DEPLOYED WAN OPTIMIZATION APPLIANCES	12/645796	8965955	12/23/2009	2/24/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR EFFICIENT XPATH PROCESSING	12/645754	9298846	12/23/2009	3/29/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SAMPLING MANAGEMENT ACROSS MULTIPLE CORES FOR HTML INJECTION	12/645677	8819115	12/23/2009	8/26/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR EVALUATING AND PRIORITIZING RESPONSES FROM MULTIPLE OCSP RESPONDERS	12/645664	8621204	12/23/2009	12/31/2013	Granted	CITRIX SYSTEMS, INC.
FLOW CONTROL SYSTEM ARCHITECTURE	12/634496	8310928	12/9/2009	11/13/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DOMAIN NAME RESOLUTION INTERCEPTION CACHING	12/634339	8364785	12/9/2009	1/29/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR ANALYZING AND REPORTING EXTENSIBLE DATA FROM MULTIPLE SOURCES IN MULTIPLE FORMATS	12/630704	8346811	12/3/2009	1/1/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR AGGRESSIVE WINDOW PROBING	12/627534	8387143	11/30/2009	2/26/2013	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR TRACE FILTERS BY ASSOCIATION OF CLIENT TO VSERVER TO SERVICES	12/626204	8271645	11/25/2009	9/18/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO MONITOR AN ACCESS GATEWAY	12/625010	8849988	11/24/2009	9/30/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR APPLYING TRANSFORMATIONS TO IP ADDRESSES OBTAINED BY DOMAIN NAME SERVICE (DNS)	12/625004	8527641	11/24/2009	9/3/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MAINTAINING PERSISTENCE BY A BACKUP VIRTUAL SERVER	12/624997	8780718	11/24/2009	7/15/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR APPLICATION FLUENCY POLICIES	12/617146	8812714	11/12/2009	8/19/2014	Granted	CITRIX SYSTEMS, INC.
TOOL FOR VISUALIZING CONFIGURATION AND STATUS OF A NETWORK APPLIANCE	12/617101	8819561	11/12/2009	8/26/2014	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR JOINING A REAL-TIME SESSION OF PRESENTATION LAYER PROTOCOL DATA	12/609731	8296441	10/30/2009	10/23/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SINGLE STACK SHADOWING	12/609684	8200828	10/30/2009	6/12/2012	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR IN-SESSION PLAYBACK ON A LOCAL	12/609615	8935316	10/30/2009	1/13/2015	Granted	CITRIX SYSTEMS, INC.

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MACHINE OF REMOTELY-STORED AND REAL TIME PRESENTATION LAYER PROTOCOL DATA						
LOCAL AGENT FOR REMOTE FILE ACCESS SYSTEM	12/609486	9325774	10/30/2009	4/26/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING DYNAMIC SPILLOVER OF VIRTUAL SERVERS BASED ON BANDWIDTH	12/609184	8275871	10/30/2009	9/25/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DYNAMIC DECENTRALIZED LOAD BALANCING ACROSS MULTIPLE SITES	12/608753	7926116	10/29/2009	4/12/2011	Granted	CITRIX SYSTEMS, INC.
TCP SELECTION ACKNOWLEDGEMENTS FOR COMMUNICATING DELIVERED AND MISSING DATA PACKETS	12/607365	8411560	10/28/2009	4/2/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CONFIGURING POLICY BANK INVOCATIONS	12/576523	8341287	10/9/2009	12/25/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CONNECTION MANAGEMENT FOR ASYNCHRONOUS MESSAGING OVER HTTP	12/576004	8458331	10/8/2009	6/4/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR REAL-TIME ENDPOINT APPLICATION	12/575315	8589579	10/7/2009	11/19/2013	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
FLOW CONTROL WITH NETWORK STRUCTURE COMPONENT						
SYSTEMS AND METHODS FOR ALLOCATING BANDWIDTH BY AN INTERMEDIARY FOR FLOW CONTROL	12/575278	8504716	10/7/2009	8/6/2013	Granted	CITRIX SYSTEMS, INC.
AUTHENTICATING A CLIENT USING LINKED AUTHENTICATION CREDENTIALS	12/575121	9331991	10/7/2009	5/3/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF USING APPLICATION AND PROTOCOL SPECIFIC PARSING FOR COMPRESSION	12/573447	7872597	10/5/2009	1/18/2011	Granted	CITRIX SYSTEMS, INC.
INFERENCING DATA TYPES OF MESSAGE COMPONENTS	12/569006	8011009	9/29/2009	8/30/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ACCELERATING DELIVERY OF A COMPUTING ENVIRONMENT TO A REMOTE USER	12/568410	7970923	9/28/2009	6/28/2011	Granted	CITRIX SYSTEMS, INC.
WAVEFRONT DETECTION AND DISAMBIGUATION OF ACKNOWLEDGEMENTS	12/567402	8259729	9/25/2009	9/4/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ATTRIBUTING AN AMOUNT OF POWER CONSUMPTION TO A WORKLOAD	12/566019	8751844	9/24/2009	6/10/2014	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
OVERLAY NETWORK INFRASTRUCTURE	12/565401	7876712	9/23/2009	1/25/2011	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FOR PROVIDING ACCESS TO PERSISTENT APPLICATION SESSIONS	12/563275	8078689	9/21/2009	12/13/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ADJUSTING THE MAXIMUM TRANSMISSION UNIT BY AN INTERMEDIARY DEVICE	12/560154	8014421	9/15/2009	9/6/2011	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEMS FOR ROUTING PACKETS FROM AN ENDPOINT TO A GATEWAY	12/557497	8019868	9/10/2009	9/13/2011	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR AUTOMATED MANAGEMENT OF VIRTUAL RESOURCES IN A CLOUD COMPUTING ENVIRONMENT	12/556624	8918488	9/10/2009	12/23/2014	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR DYNAMICALLY SWITCHING BETWEEN COMMUNICATIONS PROTOCOLS	12/556619	8775544	9/10/2009	7/8/2014	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR PROVIDING TRANSLATIONS OF DATA RETRIEVED FROM A STORAGE SYSTEM IN A CLOUD COMPUTING ENVIRONMENT	12/556611	9344401	9/10/2009	5/17/2016	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR PER PIXEL ALPHA-BLENDING OF A	12/556540	8405679	9/9/2009	3/26/2013	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
PARENT WINDOW AND A PORTION OF A BACKGROUND IMAGE						
SYSTEMS AND METHODS FOR MONITORING COMPONENTS OF A REMOTE ACCESS SERVER FARM	12/546223	7734777	8/24/2009	6/8/2010	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FACILITATING ACCESS TO STORAGE AMONG MULTIPLE COMPUTERS	12/534720	8073881	8/3/2009	12/6/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF PREFETCHING OBJECTS FOR CACHING USING QOS	12/506587	8275829	7/21/2009	9/25/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR EXECUTING INTERACTIVE APPLICATIONS WITH MINIMAL PRIVILEGES	12/501667	8429711	7/13/2009	4/23/2013	Granted	CITRIX SYSTEMS, INC.
UNIFIED OUT OF BAND MANAGEMENT SYSTEM FOR DESKTOP AND SERVER SESSIONS	12/496353	9130903	7/1/2009	9/8/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR HANDLING SSL SESSION NOT REUSABLE ACROSS MULTIPLE CORES	12/489333	8601556	6/22/2009	12/3/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING CRLS FOR A MULTI-CORE SYSTEM	12/489331	8181019	6/22/2009	5/15/2012	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR PROVIDING A VISUALIZER FOR RULES OF AN APPLICATION FIREWALL	12/489329	9215212	6/22/2009	12/15/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ENCODING THE CORE IDENTIFIER IN THE SESSION IDENTIFIER	12/489325	9654505	6/22/2009	5/16/2017	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SSL SESSION CLONINGÂ€"TRANSFER AND REGENERATION OF SSL SECURITY PARAMETERS ACROSS CORES, HOMOGENOUS SYSTEM OR HETEROGENEOUS SYSTEMS	12/489320	8312308	6/22/2009	11/13/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR HANDLING A MULTI-CONNECTION PROTOCOL BETWEEN A CLIENT AND SERVER TRAVERSING A MULTI-CORE SYSTEM	12/489286	8289975	6/22/2009	10/16/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR FAILOVER BETWEEN MULTI-CORE APPLIANCES	12/489279	8327181	6/22/2009	12/4/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR STATISTICS EXCHANGE BETWEEN CORES FOR LOAD BALANCING	12/489249	8769067	6/22/2009	7/1/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR INTEGRATION BETWEEN APPLICATION FIREWALL AND CACHING	12/489215	8205035	6/22/2009	6/19/2012	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR PACKET STEERING IN A MULTI-CORE ARCHITECTURE	12/489207	8009682	6/22/2009	8/30/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DISTRIBUTED HASH TABLE IN MULTI-CORE SYSTEM	12/489201	8737407	6/22/2009	5/27/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR RECEIVE AND TRANSMISSION QUEUE PROCESSING IN A MULTI-CORE ARCHITECTURE	12/489194	8018961	6/22/2009	9/13/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR HANDLING LIMIT PARAMETERS FOR A MULTI-CORE SYSTEM	12/489189	8578026	6/22/2009	11/5/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR IDENTIFYING A PROCESSOR FROM A PLURALITY OF PROCESSORS TO PROVIDE SYMMETRICAL REQUEST AND RESPONSE PROCESSING	12/489180	8990431	6/22/2009	3/24/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR RETAINING SOURCE IP IN A LOAD BALANCING MULTI-CORE ENVIRONMENT	12/489165	8788570	6/22/2009	7/22/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DISTRIBUTING CRYPTO CARDS TO MULTIPLE CORES	12/489161	8811223	6/22/2009	8/19/2014	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR N-CORE STATISTICS AGGREGATION	12/489150	8554892	6/22/2009	10/8/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MONITOR DISTRIBUTION IN A MULTI-CORE SYSTEM	12/489140	8533317	6/22/2009	9/10/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR N-CORE TRACING	12/489118	8289960	6/22/2009	10/16/2012	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR IMPORTING A DEVICE DRIVER INTO A GUEST COMPUTING ENVIRONMENT	12/487110	8819707	6/18/2009	8/26/2014	Granted	CITRIX SYSTEMS, INC.
MECHANISM FOR APPLICATION MOBILITY IN A CELL SITE-BASED CONTENT DISTRIBUTION NETWORK	12/473769	9137708	5/28/2009	9/15/2015	Granted	CITRIX SYSTEMS, INC.
ADVANCED CONTENT AND DATA DISTRIBUTION TECHNIQUES	12/472238	8126986	5/26/2009	2/28/2012	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR USING EXTERNAL DISPLAY DEVICES WITH A MOBILE COMPUTING DEVICE	12/469623	9241062	5/20/2009	1/19/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR REMOTING MULTIMEDIA PLUGIN CALLS	12/468797	8296357	5/19/2009	10/23/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR AUTOMATICALLY TESTING AN APPLICATION	12/468543	8700763	5/19/2009	4/15/2014	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR ENHANCED IMAGE ENCODING	12/468424	8295617	5/19/2009	10/23/2012	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR PATCHING MULTIPLE DISK IMAGES DERIVED FROM A COMMON BASE DISK IMAGE	12/468408	8464241	5/19/2009	6/11/2013	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR ENABLING FEATURES PROVIDED BY A FIRST PRESENTATION LAYER PROTOCOL IN A SESSION IMPLEMENTED ACCORDING TO A SECOND PRESENTATION LAYER PROTOCOL	12/467482	8335863	5/18/2009	12/18/2012	Granted	CITRIX SYSTEMS, INC.
PROTECTING DATA INTEGRITY IN AN ENHANCED NETWORK CONNECTION	12/466988	7864772	5/15/2009	1/4/2011	Granted	CITRIX SYSTEMS, INC.
MULTI-USER MANAGED DESKTOP ENVIRONMENT	12/436354	9201494	5/6/2009	12/1/2015	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR LAUNCHING APPLICATIONS INTO EXISTING ISOLATION ENVIRONMENTS	12/434629	8090797	5/2/2009	1/3/2012	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR POLICY SIMULATION	12/432186	8943575	4/29/2009	1/27/2015	Granted	CITRIX SYSTEMS, INC.
METHOD OF DETERMINING PATH MAXIMUM TRANSMISSION UNIT	12/429774	7969876	4/24/2009	6/28/2011	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR GENERATING A DNS QUERY TO IMPROVE RESISTANCE AGAINST A DNS ATTACK	12/426330	9270646	4/20/2009	2/23/2016	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR USING A PLURALITY OF HISTORICAL METRICS TO SELECT A PHYSICAL HOST FOR VIRTUAL MACHINE EXECUTION	12/425907	8291416	4/17/2009	10/16/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SHARING COMPRESSION HISTORIES BETWEEN MULTIPLE DEVICES	12/414052	8063799	3/30/2009	11/22/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR USING END POINT AUDITING IN CONNECTION WITH TRAFFIC MANAGEMENT	12/409322	8844040	3/23/2009	9/23/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SELECTING AN AUTHENTICATION VIRTUAL SERVER FROM A PLURALITY OF VIRTUAL SERVERS	12/409223	8782755	3/23/2009	7/15/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SELECTIVE AUTHENTICATION, AUTHORIZATION, AND AUDITING IN CONNECTION WITH TRAFFIC MANAGEMENT	12/409216	8392982	3/23/2009	3/5/2013	Granted	CITRIX SYSTEMS, INC.
ACCESS, PRIORITY AND BANDWIDTH MANAGEMENT BASED ON APPLICATION IDENTITY	12/406613	9240945	3/18/2009	1/19/2016	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR CONTENT INJECTION	12/399493	8850070	3/6/2009	9/30/2014	Granted	CITRIX SYSTEMS, INC.
DISTRIBUTED CONTENT CACHING SOLUTION FOR A MOBILE WIRELESS NETWORK	12/398735	8271610	3/5/2009	9/18/2012	Granted	CITRIX SYSTEMS, INC.
IMPLEMENTING SINGLE SIGN-ON ACROSS A HETEROGENEOUS COLLECTION OF CLIENT/SERVER AND WEB-BASED APPLICATIONS	12/390110	8832787	2/20/2009	9/9/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR MANAGING CODE ISOLATION	12/381065	8407699	3/5/2009	3/26/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SECURE HANDLING OF SECURE ATTENTION SEQUENCES	12/370891	8549596	2/13/2009	10/1/2013	Granted	CITRIX SYSTEMS, INC.
MANAGED DESKTOP SYSTEM	12/370719	8386757	2/13/2009	2/26/2013	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR EFFICIENTLY REDUCING GRAPHICAL DISPLAY DATA FOR TRANSMISSION OVER A LOW BANDWIDTH TRANSPORT PROTOCOL MECHANISM	12/366861	8099389	2/6/2009	1/17/2012	Granted	CITRIX SYSTEMS, INC.
INTERNET-BASED GROUP WEBSITE TECHNOLOGY FOR CONTENT MANAGEMENT AND EXCHANGE (SYSTEM AND METHODS)	12/366479	8353012	2/5/2009	1/8/2013	Granted	CITRIX SYSTEMS

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
END USER RISK MANAGEMENT	12/366150	7865958	2/5/2009	1/4/2011	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR REMOTING THREE DIMENSIONAL GRAPHICS	12/360841	8169436	1/27/2009	5/1/2012	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR IMPROVING RESOURCE UTILIZATION BY DELAYING RENDERING OF THREE DIMENSIONAL GRAPHICS	12/360838	8350863	1/27/2009	1/8/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROXYING COOKIES FOR SSL VPN CLIENTLESS SESSIONS	12/360019	8769660	1/26/2009	7/1/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR FINE GRAIN POLICY DRIVEN COOKIE PROXYING	12/360014	8090877	1/26/2009	1/3/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CONFIGURATION DRIVEN REWRITE OF SSL VPN CLIENTLESS SESSIONS	12/359998	8667146	1/26/2009	3/4/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR FINE GRAIN POLICY DRIVEN CLIENTLESS SSL VPN ACCESS	12/359982	8893259	1/26/2009	11/18/2014	Granted	CITRIX SYSTEMS, INC.
DRIVER INSTALLATION AND DISKLESS BOOTING OF VIRTUAL AND PHYSICAL MACHINES BASED ON MACHINE CHARACTERISTIC	12/359122	8407698	1/23/2009	3/26/2013	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
POLICY DRIVEN FINE GRAIN URL ENCODING MECHANISM FOR SSL VPN CLIENTLESS ACCESS	12/359101	8646067	1/23/2009	2/4/2014	Granted	CITRIX SYSTEMS, INC.
USING APPLICATION GATEWAYS TO PROTECT UNAUTHORIZED TRANSMISSION OF CONFIDENTIAL DATA VIA WEB APPLICATIONS	12/351199	8458783	1/9/2009	6/4/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR OPTIMIZING A PROCESS OF DETERMINING A LOCATION OF DATA IDENTIFIED BY A VIRTUAL HARD DRIVE ADDRESS	12/342861	8132168	12/23/2008	3/6/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CONTROLLING, BY A HYPERVISOR, ACCESS TO PHYSICAL RESOURCES	12/342796	8549516	12/23/2008	10/1/2013	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR PROVIDING, TO A FIRST APPLICATION EXECUTED BY A FIRST OPERATING SYSTEM, AN INTERFACE FOR COMMUNICATING WITH AT LEAST ONE APPLICATION EXECUTED BY A SECOND OPERATING SYSTEM	12/341797	8938743	12/22/2008	1/20/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING A VPN SOLUTION	12/336795	7978716	12/17/2008	7/12/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR FACILITATING VIRTUALIZATION OF	12/325710	8352952	12/1/2008	1/8/2013	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
A HETEROGENEOUS PROCESSOR POOL						
SYSTEMS AND METHODS FOR OBJECT RATE LIMITING	12/323310	8631149	11/25/2008	1/14/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR GSLB SITE PERSISTENCE	12/323285	8260926	11/25/2008	9/4/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR LOAD BALANCING REAL TIME STREAMING	12/323243	8135850	11/25/2008	3/13/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR GSLB BASED ON SSL VPN USERS	12/323153	8639813	11/25/2008	1/28/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR GSLB REMOTE SERVICE MONITORING	12/277786	8171124	11/25/2008	5/1/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR HTTP CALLOUTS FOR POLICIES	12/277759	8955033	11/25/2008	2/10/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR GSLB AUTO SYNCHRONIZATION	12/277690	9128770	11/25/2008	9/8/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR BATCHABLE HIERARCHICAL CONFIGURATION	12/277675	9235448	11/25/2008	1/12/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR HEALTH BASED SPILLOVER	12/277641	8560695	11/25/2008	10/15/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ENCODING KNOWLEDGE FOR	12/272636	8180724	11/17/2008	5/15/2012	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
AUTOMATED MANAGEMENT OF SOFTWARE APPLICATION DEPLOYMENTS						
SYSTEM AND METHOD USING GLOBALLY UNIQUE IDENTITIES	12/270278	8990910	11/13/2008	3/24/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR USING VARIABLE SECURITY TAG LOCATION IN NETWORK COMMUNICATIONS	12/267850	8990573	11/10/2008	3/24/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR INFERRING ACCESS POLICIES FROM ACCESS EVENT RECORDS	12/267804	8516539	11/10/2008	8/20/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING PRINTER SETTINGS IN A NETWORKED COMPUTING ENVIRONMENT	12/267274	8149431	11/7/2008	4/3/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR EVALUATING A SEQUENCE OF CHARACTERS	12/265166	8386238	11/5/2008	2/26/2013	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR REMOTING THREE DIMENSIONAL GRAPHICAL DATA	12/254810	8638336	10/20/2008	1/28/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR FOLDER REDIRECTION	12/254110	8782021	10/20/2008	7/15/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR GATHERING AND SELECTIVELY	12/253550	7966524	10/17/2008	6/21/2011	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYNCHRONIZING STATE INFORMATION OF AT LEAST ONE MACHINE						
SYSTEMS AND METHODS OF CLUSTERED SHARING OF COMPRESSION HISTORIES	12/252616	7916047	10/16/2008	3/29/2011	Granted	CITRIX SYSTEMS, INC.
CONTENT REPLACEMENT AND REFRESH POLICY IMPLEMENTATION FOR A CONTENT DISTRIBUTION NETWORK	12/250685	9208104	10/14/2008	12/8/2015	Granted	CITRIX SYSTEMS, INC.
ENCODED SOFTWARE MANAGEMENT RULES HAVING FREE LOGICAL VARIABLES FOR INPUT PATTERN MATCHING AND OUTPUT BINDING SUBSTITUTIONS TO SUPPLY INFORMATION TO REMEDIES FOR PROBLEMS DETECTED USING THE RULES	12/239447	8170975	9/26/2008	5/1/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MONITORING COMPONENTS OF A REMOTE ACCESS SERVER FARM	12/236016	7886050	9/23/2008	2/8/2011	Granted	CITRIX SYSTEMS, INC.
VIDEO-VOICEMAIL SOLUTION FOR WIRELESS COMMUNICATION DEVICES	12/228650	RE42210	8/13/2008	3/8/2011	Granted Reissued	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR PROVIDING, BY A REMOTE MACHINE, ACCESS TO FUNCTIONALITY ASSOCIATED WITH	12/210181	8046403	9/12/2008	10/25/2011	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
A RESOURCE EXECUTING ON A LOCAL MACHINE						
METHODS AND SYSTEMS FOR PROVIDING, BY A REMOTE MACHINE, ACCESS TO A DESK BAND ASSOCIATED WITH A RESOURCE EXECUTING ON A LOCAL MACHINE	12/210177	8286082	9/12/2008	10/9/2012	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR PROVIDING, BY A REMOTE MACHINE, ACCESS TO GRAPHICAL DATA ASSOCIATED WITH A RESOURCE PROVIDED BY A LOCAL MACHINE	12/210175	7890570	9/12/2008	2/15/2011	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR MAINTAINING DESKTOP ENVIRONMENTS PROVIDING INTEGRATED ACCESS TO REMOTE AND LOCAL RESOURCES	12/210174	9239666	9/12/2008	1/19/2016	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR ESTABLISHING A DEDICATED SESSION FOR A MEMBER OF A COMMON FRAME BUFFER GROUP	12/174881	8612614	7/17/2008	12/17/2013	Granted	CITRIX SYSTEMS, INC.
COMPUTER SECURITY SYSTEM	12/163292	8910241	6/27/2008	12/9/2014	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR INTERACTIVE EVALUATION OF POLICIES	12/147029	8775944	6/26/2008	7/8/2014	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR INTERACTIVE EVALUATION USING	12/147022	8561148	6/26/2008	10/15/2013	Granted	CITRIX SYSTEMS, INC.

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REEL: 062079 FRAME: 0283

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DYNAMICALLY GENERATED, INTERACTIVE RESULTANT SETS OF POLICIES						
ADAPTIVE TRANSMISSION RATE AND FRAGMENTATION THRESHOLD MECHANISM FOR LOCAL AREA NETWORKS	12/140070	8081718	6/16/2008	12/20/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR LOAD BALANCING VIA A PLURALITY OF VIRTUAL SERVERS UPON FAILOVER USING METRICS FROM A BACKUP VIRTUAL SERVER	12/128978	8065559	5/29/2008	11/22/2011	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR GENERATING A GRAPHICAL DISPLAY FOR A REMOTE TERMINAL SESSION	12/108016	8131817	4/23/2008	3/6/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEM FOR AN OPEN ARCHITECTURE DEVELOPMENT PLATFORM WITH CENTRALIZED SYNCHRONIZATION	12/068699	8127025	2/11/2008	2/28/2012	Granted	CITRIX SYSTEMS, INC.
ASSOCIATING VIRTUAL MACHINES ON A SERVER COMPUTER WITH PARTICULAR USERS ON AN EXCLUSIVE BASIS	12/032446	9270781	2/15/2008	2/23/2016	Granted	CITRIX SYSTEMS, INC.
MAINTAINING A POOL OF FREE VIRTUAL MACHINES ON A SERVER COMPUTER	12/032429	8176486	2/15/2008	5/8/2012	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
ACTIVE AND PASSIVE PERSONALIZATION TECHNIQUES	12/031340	8082511	2/14/2008	12/20/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF MARKING LARGE OBJECTS AS NON-CACHEABLE	12/020963	8250301	1/28/2008	8/21/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF MAINTAINING FRESHNESS OF A CACHED OBJECT BASED ON DEMAND AND EXPIRATION TIME	12/020649	8108608	1/28/2008	1/31/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD OF NETWORK BOOTING OF AN OPERATING SYSTEM TO A CLIENT COMPUTER USING HIBERNATION	12/014529	8090808	1/15/2008	1/3/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DECENTRALIZED COMPUTING	12/002725	8301686	12/17/2007	10/30/2012	Granted	CITRIX SYSTEMS, INC.
METHOD AND APPARATUS FOR SEARCHING A HIERARCHICAL DATABASE AND AN UNSTRUCTURED DATABASE WITH A SINGLE SEARCH QUERY	11/982699	8046353	11/2/2007	10/25/2011	Granted	CITRIX SYSTEMS, INC.
HOSTED SEARCHING OF PRIVATE LOCAL AREA NETWORK INFORMATION	11/982542	7877369	11/2/2007	1/25/2011	Granted	CITRIX SYSTEMS, INC.
HOSTED SEARCHING OF PRIVATE LOCAL AREA NETWORK	11/982495	7877368	11/2/2007	1/25/2011	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
INFORMATION WITH SUPPORT FOR ADD-ON APPLICATIONS						
SYSTEM FOR AND METHOD OF STREAMING DATA TO A COMPUTER IN A NETWORK	11/957929	8352624	12/17/2007	1/8/2013	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR INCORPORATING AT LEAST ONE WINDOW FROM A FIRST DESKTOP ENVIRONMENT HAVING A FIRST THEMED GRAPHICAL DISPLAY INTO A SECOND DESKTOP ENVIRONMENT HAVING A SECOND THEMED GRAPHICAL DISPLAY	11/941567	8046695	11/16/2007	10/25/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR TRANSFERRING DATA AMONG COMPUTING ENVIRONMENTS	11/941521	8190707	11/16/2007	5/29/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEM FOR AN OPEN ARCHITECTURE DEPLOYMENT PLATFORM WITH CENTRALIZED SYNCHRONIZATION	11/905276	8224886	9/28/2007	7/17/2012	Granted	CITRIX SYSTEMS, INC.
TRACKING CURRENT TIME ON MULTIPROCESSOR HOSTS AND VIRTUAL MACHINES	11/879338	7870411	7/17/2007	1/11/2011	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR COMMUNICATING BETWEEN ISOLATION ENVIRONMENTS	11/875881	8171483	10/20/2007	5/1/2012	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR MANAGING COOKIES VIA HTTP CONTENT LAYER	11/875671	7925694	10/19/2007	4/12/2011	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR COMPLETING, BY A SINGLE SIGN-ON COMPONENT, AN AUTHENTICATION PROCESS IN A FEDERATED ENVIRONMENT TO A RESOURCE NOT SUPPORTING FEDERATION	11/875552	8281378	10/19/2007	10/2/2012	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR ACCESSING REMOTE USER FILES ASSOCIATED WITH LOCAL RESOURCES	11/875515	8452812	10/19/2007	5/28/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ENHANCING SECURITY BY SELECTIVELY OPENING A LISTENING PORT WHEN AN INCOMING CONNECTION IS EXPECTED	11/875256	8266688	10/19/2007	9/11/2012	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR PROVIDING ACCESS, FROM WITHIN A VIRTUAL WORLD, TO AN EXTERNAL RESOURCE	11/873564	8024407	10/17/2007	9/20/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR BRIDGING A WAN ACCELERATOR WITH A SECURITY GATEWAY	11/851934	8908700	9/7/2007	12/9/2014	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR EFFICIENTLY LOAD BALANCING BASED ON LEAST CONNECTIONS	11/833777	8077622	8/3/2007	12/13/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING IIP ADDRESS STICKINESS IN AN SSL VPN SESSION FAILOVER ENVIRONMENT	11/833581	9009327	8/3/2007	4/14/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR AUTHORIZING A CLIENT IN AN SSL VPN SESSION FAILOVER ENVIRONMENT	11/833577	8132247	8/3/2007	3/6/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR STATE SIGNING OF INTERNET RESOURCES	11/832434	7861087	8/1/2007	12/28/2010	Granted	CITRIX SYSTEMS, INC.
METHODS AND SERVERS FOR DISPLAYING AND ACTIVATING DISCONNECTED SESSIONS	11/767122	8127017	6/22/2007	2/28/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ACCELERATING DELIVERY OF A COMPUTING ENVIRONMENT TO A REMOTE USER	11/734083	8886822	4/11/2007	11/11/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR USER LOGIN	11/693991	8020195	3/30/2007	9/13/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING DYNAMIC SPILLOVER OF VIRTUAL SERVERS BASED ON BANDWIDTH	11/685186	8312120	3/12/2007	11/13/2012	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR LOAD BALANCING BASED ON USER SELECTED METRICS	11/685185	8291108	3/12/2007	10/16/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF USING PACKET BOUNDARIES FOR REDUCTION IN TIMEOUT PREVENTION	11/685183	8270423	3/12/2007	9/18/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ADDITIONAL RETRANSMISSIONS OF DROPPED PACKETS	11/685181	8437284	3/12/2007	5/7/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CONFIGURING POLICY BANK INVOCATIONS	11/685180	8631147	3/12/2007	1/14/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING APPLICATION SECURITY PROFILES	11/685177	8490148	3/12/2007	7/16/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CONFIGURING HANDLING OF UNDEFINED POLICY EVENTS	11/685175	7853679	3/12/2007	12/14/2010	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING QUALITY OF SERVICE PRECEDENCE IN TCP CONGESTION CONTROL	11/685173	7760642	3/12/2007	7/20/2010	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF COMPRESSION HISTORY	11/685172	8255570	3/12/2007	8/28/2012	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
EXPIRATION AND SYNCHRONIZATION						
SYSTEMS AND METHODS FOR CONFIGURING FLOW CONTROL OF POLICY EXPRESSIONS	11/685171	7853678	3/12/2007	12/14/2010	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR IDENTIFYING LONG MATCHES OF DATA IN A COMPRESSION HISTORY	11/685170	7453379	3/12/2007	11/18/2008	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF PROVIDING PROXY-BASED QUALITY OF SERVICE	11/685168	7706266	3/12/2007	4/27/2010	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR USING OBJECT ORIENTED EXPRESSIONS TO CONFIGURE APPLICATION SECURITY POLICIES	11/685167	7870277	3/12/2007	1/11/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF CLUSTERED SHARING OF COMPRESSION HISTORIES	11/685165	7460038	3/12/2007	12/2/2008	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING VIRTUAL FAIR QUEUEING OF NETWORK TRAFFIC	11/685164	7796510	3/12/2007	9/14/2010	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING GLOBAL SERVER LOAD BALANCING OF HETEROGENEOUS DEVICES	11/685163	8484656	3/12/2007	7/9/2013	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR SHARING COMPRESSION HISTORIES BETWEEN MULTIPLE DEVICES	11/685161	7532134	3/12/2007	5/12/2009	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR IDENTIFYING LONG MATCHES OF DATA IN A COMPRESSION HISTORY	11/685159	7827237	3/12/2007	11/2/2010	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF USING APPLICATION AND PROTOCOL SPECIFIC PARSING FOR COMPRESSION	11/685157	7619545	3/12/2007	11/17/2009	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR STOCHASTIC-BASED QUALITY OF SERVICE	11/685156	8432800	3/12/2007	4/30/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF USING AN IP ID FIELD FOR AUTOMATIC WAN/LAN DETECTION	11/685154	7664857	3/12/2007	2/16/2010	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING DYNAMIC AD HOC PROXY-CACHE HIERARCHIES	11/685153	7865585	3/12/2007	1/4/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING STRUCTURED POLICY EXPRESSIONS TO REPRESENT UNSTRUCTURED DATA IN A NETWORK APPLIANCE	11/685147	7865589	3/12/2007	1/4/2011	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS OF FRESHENING AND PREFRESHENING A DNS CACHE	11/685142	7720936	3/12/2007	5/18/2010	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF USING THE REFRESH BUTTON TO DETERMINE FRESHNESS POLICY	11/685141	8701010	3/12/2007	4/15/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF DYNAMICALLY CHECKING FRESHNESS OF CACHED OBJECTS BASED ON LINK STATUS	11/685139	8037126	3/12/2007	10/11/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHOD OF USING HTTP HEAD COMMAND FOR PREFETCHING	11/685136	7809818	3/12/2007	10/5/2010	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF PREFRESHENING CACHED OBJECTS BASED ON USER'S CURRENT WEB PAGE	11/685134	8504775	3/12/2007	8/6/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PREFETCHING OBJECTS FOR CACHING USING QOS	11/685133	7584294	3/12/2007	9/1/2009	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF REVALIDATING CACHED OBJECTS IN PARALLEL WITH REQUEST FOR OBJECT	11/685132	7783757	3/12/2007	8/24/2010	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS OF PROVIDING SECURITY AND RELIABILITY TO PROXY CACHES	11/685131	8103783	3/12/2007	1/24/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF PROVIDING A MULTI-TIER CACHE	11/685130	8074028	3/12/2007	12/6/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SCRIPT INJECTION	11/684936	8572160	3/12/2007	10/29/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ERROR DETECTION	11/684933	9021140	3/12/2007	4/28/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PRESERVING TRANSPORT LAYER PROTOCOL OPTIONS	11/627707	7581005	1/26/2007	8/25/2009	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR SELECTING A METHOD FOR EXECUTION, BY A VIRTUAL MACHINE, OF AN APPLICATION PROGRAM	11/624403	8341732	1/18/2007	12/25/2012	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR PROVIDING AUTHORIZED REMOTE ACCESS TO A COMPUTING ENVIRONMENT PROVIDED BY A VIRTUAL MACHINE	11/624402	7949677	1/18/2007	5/24/2011	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR ASSIGNING ACCESS CONTROL LEVELS IN PROVIDING ACCESS TO	11/624396	7954150	1/18/2007	5/31/2011	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
RESOURCES VIA VIRTUAL MACHINES						
METHODS AND SYSTEMS FOR PROVIDING REMOTE ACCESS TO A COMPUTING ENVIRONMENT PROVIDED BY A VIRTUAL MACHINE	11/624395	8117314	1/18/2007	2/14/2012	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR EXECUTING, BY A VIRTUAL MACHINE, AN APPLICATION PROGRAM REQUESTED BY A CLIENT MACHINE	11/624394	7870153	1/18/2007	1/11/2011	Granted	CITRIX SYSTEMS, INC.
IN-BAND QUALITY-OF-SERVICE SIGNALING TO ENDPOINTS THAT ENFORCE TRAFFIC POLICIES AT TRAFFIC SOURCES USING POLICY MESSAGES PIGGYBACKED ONTO DIFFSERV BITS	11/613073	7983170	12/19/2006	7/19/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING LEVELS OF ACCESS AND ACTION CONTROL VIA AN SSL VPN APPLIANCE	11/566975	8151323	12/5/2006	4/3/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING AUTHENTICATION CREDENTIALS ACROSS APPLICATION ENVIRONMENTS	11/565929	7685298	12/1/2006	3/23/2010	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FOR COMMUNICATING CHANGES BETWEEN A USER-INTERFACE AND	11/565923	7873965	12/1/2006	1/18/2011	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
AN EXECUTING APPLICATION, USING PROPERTY PATHS						
METHODS AND SYSTEMS FOR PROVIDING ACCESS TO A COMPUTING ENVIRONMENT	11/563932	8341270	11/28/2006	12/25/2012	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR PROVIDING ACCESS TO A COMPUTING ENVIRONMENT PROVIDED BY A VIRTUAL MACHINE EXECUTING IN A HYPERVISOR EXECUTING IN A TERMINAL SERVICES SESSION	11/563927	8010679	11/28/2006	8/30/2011	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR INTERACTING, VIA A HYPERMEDIUM PAGE, WITH A VIRTUAL MACHINE EXECUTING IN A TERMINAL SERVICES SESSION	11/559635	8355407	11/14/2006	1/15/2013	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR DYNAMICALLY ASSOCIATING ACCESS RIGHTS WITH A RESOURCE	11/557683	8533846	11/8/2006	9/10/2013	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR REAL-TIME SEEKING DURING REAL-TIME PLAYBACK OF A PRESENTATION LAYER PROTOCOL DATA STREAM	11/555615	7831728	11/1/2006	11/9/2010	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR RECORDING AND REAL-TIME PLAYBACK OF PRESENTATION LAYER PROTOCOL DATA	11/555611	7996549	11/1/2006	8/9/2011	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR CONTROLLING THE NUMBER OF CONNECTIONS ESTABLISHED WITH A SERVER	11/554933	8799502	10/31/2006	8/5/2014	Granted	CITRIX SYSTEMS, INC.
METHODS AND SERVERS FOR ESTABLISHING A CONNECTION BETWEEN A CLIENT SYSTEM AND A VIRTUAL MACHINE EXECUTING IN A TERMINAL SERVICES SESSION AND HOSTING A REQUESTED COMPUTING ENVIRONMENT	11/552787	8051180	10/25/2006	11/1/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR FACILITATING DISTRIBUTED AUTHENTICATION	11/539202	8112789	10/6/2006	2/7/2012	Granted	CITRIX SYSTEMS, INC.
LOCAL PROTOCOL SERVER	11/532866	7769042	9/18/2006	8/3/2010	Granted	CITRIX SYSTEMS, INC.
RESOURCE MANAGEMENT IN VIRTUAL MACHINES USING DYNAMIC TABLE FOR PERFORMING RESOURCE QUERIES	11/525888	8505006	9/22/2006	8/6/2013	Granted	CITRIX SYSTEMS, INC.
DYNAMIC TABLE CONFIGURATION IN A VIRTUAL MACHINE	11/525727	7577686	9/22/2006	8/18/2009	Granted	CITRIX SYSTEMS, INC.
HOT PLUGGABLE VIRTUAL MACHINE	11/525726	8443358	9/22/2006	5/14/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD OF PROVIDING MOBILITY TO PERSONAL COMPUTERS	11/516179	8117608	9/5/2006	2/14/2012	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
LOCAL AGENT FOR REMOTE FILE ACCESS SYSTEM	11/506383	9344482	8/18/2006	5/17/2016	Granted	CITRIX SYSTEMS, INC.
USING WRITEABLE PAGE TABLES FOR MEMORY ADDRESS TRANSLATION IN A HYPERVISOR ENVIRONMENT	11/487945	7814287	7/17/2006	10/12/2010	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING DYNAMIC CONNECTION SPILLOVER AMONG VIRTUAL SERVERS	11/466238	8493858	8/22/2006	7/23/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR BULK ENCRYPTION AND DECRYPTION OF TRANSMITTED DATA	11/466033	8352728	8/21/2006	1/8/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR OPTIMIZING SSL HANDSHAKE PROCESSING	11/466030	8095787	8/21/2006	1/10/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR WEIGHTED MONITORING OF NETWORK SERVICES	11/466026	8116207	8/21/2006	2/14/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DYNAMIC DECENTRALIZED LOAD BALANCING ACROSS MULTIPLE SITES	11/466019	8141164	8/21/2006	3/20/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR OPTIMIZING SSL HANDSHAKE PROCESSING	11/466014	8230214	8/21/2006	7/24/2012	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0297

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS OF PROVIDING AN INTRANET INTERNET PROTOCOL ADDRESS TO A CLIENT ON A VIRTUAL PRIVATE NETWORK	11/465980	8418243	8/21/2006	4/9/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PINGING A USER'S INTRANET IP ADDRESS	11/465963	8451806	8/21/2006	5/28/2013	Granted	CITRIX SYSTEMS, INC.
METHODS FOR ASSOCIATING AN IP ADDRESS TO A USER VIA AN APPLIANCE	11/465958	8213393	8/21/2006	7/3/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF PROVIDING SERVER INITIATED CONNECTIONS ON A VIRTUAL PRIVATE NETWORK	11/465950	7769869	8/21/2006	8/3/2010	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF INSTALLING AN APPLICATION WITHOUT REBOOTING	11/465948	8769522	8/21/2006	7/1/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF SYMMETRIC TRANSPORT CONTROL PROTOCOL COMPRESSION	11/465943	8694684	8/21/2006	4/8/2014	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR AUTHORIZING A LEVEL OF ACCESS OF A CLIENT TO A VIRTUAL PRIVATE NETWORK CONNECTION, BASED ON A CLIENT-SIDE ATTRIBUTE	11/465915	8397287	8/21/2006	3/12/2013	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0298

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHOD AND APPLIANCE FOR AUTHENTICATING, BY AN APPLIANCE, A CLIENT TO ACCESS A VIRTUAL PRIVATE NETWORK CONNECTION, BASED ON AN ATTRIBUTE OF A CLIENT-SIDE CERTIFICATE	11/465894	8413229	8/21/2006	4/2/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR POLICY BASED TRIGGERING OF CLIENT-AUTHENTICATION AT DIRECTORY LEVEL GRANULARITY	11/462350	8566925	8/3/2006	10/22/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR HIERARCHICAL GLOBAL LOAD BALANCING	11/462345	8626946	8/3/2006	1/7/2014	Granted	CITRIX SYSTEMS, INC.
METHOD AND APPLIANCE FOR USING A DYNAMIC RESPONSE TIME TO DETERMINE RESPONSIVENESS OF NETWORK SERVICES	11/462344	7720954	8/3/2006	5/18/2010	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING A PLURALITY OF USER SESSIONS IN A VIRTUAL PRIVATE NETWORK ENVIRONMENT	11/462341	8108525	8/3/2006	1/31/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR APPLICATION BASED INTERCEPTION OF SSL/VPN TRAFFIC	11/462329	8869262	8/3/2006	10/21/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR APPLICATION BASED INTERCEPTION SSI/VPN TRAFFIC	11/462321	8495181	8/3/2006	7/23/2013	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0299

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS OF FINE GRAINED INTERCEPTION OF NETWORK COMMUNICATIONS ON A VIRTUAL PRIVATE NETWORK	11/462312	7843912	8/3/2006	11/30/2010	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR USING A CLIENT AGENT TO MANAGE HTTP AUTHENTICATION COOKIES	11/462308	8392977	8/3/2006	3/5/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR USING A CLIENT AGENT TO MANAGE HTTP AUTHENTICATION COOKIES	11/462300	8561155	8/3/2006	10/15/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF FOR PROVIDING MULTI-MODE TRANSPORT LAYER COMPRESSION	11/462274	8244883	8/3/2006	8/14/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR USING AN HTTP-AWARE CLIENT AGENT	11/462267	8943304	8/3/2006	1/27/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR USING A CLIENT AGENT TO MANAGE ICMP TRAFFIC IN A VIRTUAL PRIVATE NETWORK ENVIRONMENT	11/462253	7907621	8/3/2006	3/15/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ENABLING ASSURED RECORDS USING FINE GRAINED AUDITING OF VIRTUAL PRIVATE NETWORK TRAFFIC	11/462230	8484718	8/3/2006	7/9/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR BYPASSING AN APPLIANCE	11/462202	8677007	8/3/2006	3/18/2014	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0300

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR ROUTING VPN TRAFFIC AROUND NETWORK DISRUPTION	11/462200	7953889	8/3/2006	5/31/2011	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR ROUTING PACKETS IN A VPN-CLIENT-TO-VPN-CLIENT CONNECTION VIA AN SSL/VPN NETWORK APPLIANCE	11/462174	8572721	8/3/2006	10/29/2013	Granted	CITRIX SYSTEMS, INC.
METHOD FOR MULTIPART ENCODING	11/439330	8312074	5/22/2006	11/13/2012	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR DELTA COMPRESSION	11/439068	8312172	5/22/2006	11/13/2012	Granted	CITRIX SYSTEMS, INC.
DYNAMIC DATA OPTIMIZATION IN DATA NETWORK	11/439009	8583827	5/22/2006	11/12/2013	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR OBJECT PREDICTION	11/439003	8856279	5/22/2006	10/7/2014	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEMS FOR EFFICIENT DELIVERY OF PREVIOUSLY STORED CONTENT	11/428058	7756826	6/30/2006	7/13/2010	Granted	CITRIX SYSTEMS, INC.
VIRTUAL INLINE CONFIGURATION FOR A NETWORK DEVICE	11/380004	8004973	4/25/2006	8/23/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR ANALYZING AND REPORTING EXTENSIBLE DATA FROM MULTIPLE SOURCES IN MULTIPLE FORMATS	11/370522	7630956	3/7/2006	12/8/2009	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHOD AND SYSTEMS FOR PROVIDING ACCESS TO DYNAMIC CONTENT VIA STATIC PAGES	11/365482	7877463	3/1/2006	1/25/2011	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR ASSIGNING ACCESS CONTROL LEVELS IN PROVIDING ACCESS TO NETWORKED CONTENT FILES	11/365355	8065423	3/1/2006	11/22/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR AUTOMATIC INSTALLATION AND EXECUTION OF A CLIENT-SIDE ACCELERATION PROGRAM	11/324203	7810089	12/30/2005	10/5/2010	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR PERFORMING GRANULAR INVALIDATION OF CACHED DYNAMICALLY GENERATED OBJECTS IN A DATA COMMUNICATION NETWORK	11/324146	8301839	12/30/2005	10/30/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR PERFORMING FLASH CACHING OF DYNAMICALLY GENERATED OBJECTS IN A DATA COMMUNICATION NETWORK	11/324141	8255456	12/30/2005	8/28/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING CLIENT-SIDE ACCELERATED ACCESS TO REMOTE APPLICATIONS VIA TCP BUFFERING	11/324140	8954595	12/30/2005	2/10/2015	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING CLIENT-SIDE	11/324138	8700695	12/30/2005	4/15/2014	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0302

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
ACCELERATED ACCESS TO REMOTE APPLICATIONS VIA TCP POOLING						
METHOD AND DEVICE FOR PERFORMING CACHING OF DYNAMICALLY GENERATED OBJECTS IN A DATA COMMUNICATION NETWORK	11/324131	8495305	12/30/2005	7/23/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING CLIENT-SIDE ACCELERATED ACCESS TO REMOTE APPLICATIONS VIA TCP MULTIPLEXING	11/323354	8549149	12/30/2005	10/1/2013	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR PERFORMING FLASH CROWD CACHING OF DYNAMICALLY GENERATED OBJECTS IN A DATA COMMUNICATION NETWORK	11/323353	7921184	12/30/2005	4/5/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING CLIENT-SIDE DYNAMIC REDIRECTION TO BYPASS AN INTERMEDIARY	11/323352	8706877	12/30/2005	4/22/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR PERFORMING ENTITY TAG AND CACHE CONTROL OF A DYNAMICALLY GENERATED OBJECT NOT IDENTIFIED AS CACHEABLE IN A NETWORK	11/323196	7849269	12/30/2005	12/7/2010	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0303

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SELECTING AN INSTANCE OF A RESOURCE USING NETWORK ROUTABILITY INFORMATION	11/321039	8082348	12/30/2005	12/20/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR GATHERING DEPLOYMENT STATE FOR AUTOMATED MANAGEMENT OF SOFTWARE APPLICATION DEPLOYMENTS	11/316696	7865888	12/21/2005	1/4/2011	Granted	CITRIX SYSTEMS, INC.
AUTOMATED REMEDYING OF PROBLEMS IN SOFTWARE APPLICATION DEPLOYMENTS	11/316399	7900201	12/21/2005	3/1/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DETECTING BEHAVIORAL FEATURES OF SOFTWARE APPLICATION DEPLOYMENTS FOR AUTOMATED DEPLOYMENT MANAGEMENT	11/316396	7954090	12/21/2005	5/31/2011	Granted	CITRIX SYSTEMS, INC.
AUTOMATED DETECTION OF PROBLEMS IN SOFTWARE APPLICATION DEPLOYMENTS	11/316395	7788536	12/21/2005	8/31/2010	Granted	CITRIX SYSTEMS, INC.
AUTOMATED ROOT CAUSE ANALYSIS OF PROBLEMS ASSOCIATED WITH SOFTWARE APPLICATION DEPLOYMENTS	11/316367	8001527	12/21/2005	8/16/2011	Granted	CITRIX SYSTEMS, INC.
APPLICATION MODEL FOR AUTOMATED MANAGEMENT OF SOFTWARE APPLICATION DEPLOYMENTS	11/316364	7996814	12/21/2005	8/9/2011	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR ENCODING KNOWLEDGE FOR AUTOMATED MANAGEMENT OF SOFTWARE APPLICATION DEPLOYMENTS	11/316214	7490073	12/21/2005	2/10/2009	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR AUTOMATED MANAGEMENT OF SOFTWARE APPLICATION DEPLOYMENTS	11/316202	7870550	12/21/2005	1/11/2011	Granted	CITRIX SYSTEMS, INC.
PERFORMANCE LOGGING USING RELATIVE DIFFERENTIALS AND SKIP RECORDING	11/312816	7924884	12/20/2005	4/12/2011	Granted	CITRIX SYSTEMS, INC.
AUTOMATIC LAN/WAN PORT DETECTION	11/301825	8077632	12/12/2005	12/13/2011	Granted	CITRIX SYSTEMS, INC.
OVERLAY NETWORK INFRASTRUCTURE	11/271077	7613131	11/10/2005	11/3/2009	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR RESPONSE MONITORING	11/258611	8171127	10/25/2005	5/1/2012	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR VERIFICATION OF AN ENDPOINT SECURITY SCAN	11/255311	8024568	10/21/2005	9/20/2011	Granted	CITRIX SYSTEMS, INC.
METHOD AND A SYSTEM FOR RESPONDING LOCALLY TO REQUESTS FOR FILE METADATA ASSOCIATED WITH FILES STORED REMOTELY	11/246921	8131825	10/7/2005	3/6/2012	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHOD AND SYSTEM FOR ACCESSING A REMOTE FILE IN A DIRECTORY STRUCTURE ASSOCIATED WITH AN APPLICATION PROGRAM EXECUTING LOCALLY	11/246019	7779034	10/7/2005	8/17/2010	Granted	CITRIX SYSTEMS, INC.
SIMULATING MULTI-MONITOR FUNCTIONALITY IN A SINGLE MONITOR ENVIRONMENT	11/243512	8191008	10/3/2005	5/29/2012	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR LOCATING AND ACCESSING RESOURCES	11/231370	8095940	9/19/2005	1/10/2012	Granted	CITRIX SYSTEMS, INC.
METHOD FOR ACCESSING, BY APPLICATION PROGRAMS, RESOURCES RESIDING INSIDE AN APPLICATION ISOLATION SCOPE	11/231317	8132176	9/19/2005	3/6/2012	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR ACCESSING RESOURCES	11/231315	7676813	9/19/2005	3/9/2010	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR ACCESSING, BY APPLICATION PROGRAMS, RESOURCES PROVIDED BY AN OPERATING SYSTEM	11/231284	8302101	9/19/2005	10/30/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD OF NETWORK BOOTING OF AN OPERATING SYSTEM TO A CLIENT COMPUTER USING HIBERNATION	11/199735	7334122	8/9/2005	2/19/2008	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ADJUSTING THE MAXIMUM	11/188279	7609721	7/22/2005	10/27/2009	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0306

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
TRANSMISSION UNIT FOR ENCRYPTED COMMUNICATIONS						
SYSTEMS AND METHODS FOR FACILITATING A PEER TO PEER ROUTE VIA A GATEWAY	11/188274	8914522	7/22/2005	12/16/2014	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR COMMUNICATING A LOSSY PROTOCOL VIA A LOSSLESS PROTOCOL USING FALSE ACKNOWLEDGEMENTS	11/187562	7808906	7/22/2005	10/5/2010	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR COMMUNICATING A LOSSY PROTOCOL VIA A LOSSLESS PROTOCOL	11/187513	7724657	7/22/2005	5/25/2010	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR NETWORK DISRUPTION SHIELDING TECHNIQUES	11/187512	8046830	7/22/2005	10/25/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CLIENT-SIDE APPLICATION-AWARE PRIORITIZATION OF NETWORK COMMUNICATIONS	11/187508	9219579	7/22/2005	12/22/2015	Granted	CITRIX SYSTEMS, INC.
METHOD AND DEVICE FOR PERFORMING INTEGRATED CACHING IN A DATA COMMUNICATION NETWORK	11/169002	8739274	6/29/2005	5/27/2014	Granted	CITRIX SYSTEMS, INC.
COMBINED BARCODE SCANNER AND RADIO FREQUENCY	11/163920	7207488	11/3/2005	4/24/2007	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0307

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
IDENTIFICATION READER WITH FIELD INTERPRETATION ARRAY						
METHOD FOR MAINTAINING TRANSACTION INTEGRITY ACROSS MULTIPLE REMOTE ACCESS SERVERS	11/161656	7657657	8/11/2005	2/2/2010	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEMS FOR SECURING REMOTE ACCESS TO PRIVATE NETWORKS	11/161093	8291119	7/22/2005	10/16/2012	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEMS FOR ROUTING PACKETS FROM AN ENDPOINT TO A GATEWAY	11/161092	7606902	7/22/2005	10/20/2009	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEMS FOR ROUTING PACKETS FROM A GATEWAY TO AN ENDPOINT	11/161091	8363650	7/22/2005	1/29/2013	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR SECURING ACCESS TO PRIVATE NETWORKS USING ENCRYPTION AND AUTHENTICATION TECHNOLOGY BUILT IN TO PERIPHERAL DEVICES	11/161090	7978714	7/22/2005	7/12/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MAINTAINING A CLIENT'S NETWORK CONNECTION THRU A CHANGE IN NETWORK IDENTIFIER	11/157289	8090874	6/20/2005	1/3/2012	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0308

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHODS AND APPARATUS FACILITATING ACCESS TO STORAGE AMONG MULTIPLE COMPUTERS	11/115098	7552122	4/26/2005	6/23/2009	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FOR SHARED STORAGE JOURNALING	11/115041	7433898	4/26/2005	10/7/2008	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FACILITATING VOLUME MANAGEMENT	11/114943	7360030	4/26/2005	4/15/2008	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FACILITATING ACCESS TO SHARED STORAGE AMONG MULTIPLE COMPUTERS	11/114913	7490089	4/26/2005	2/10/2009	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FACILITATING ACCESS TO SHARED STORAGE AMONG MULTIPLE COMPUTERS	11/114905	7584222	4/26/2005	9/1/2009	Granted	CITRIX SYSTEMS, INC.
WEB RELAY	11/101797	8543726	4/8/2005	9/24/2013	Granted	CITRIX SYSTEMS, INC.
METHOD AND APPARATUS FOR EFFICIENT COMPRESSION	11/089844	7098815	3/25/2005	8/29/2006	Granted	CITRIX SYSTEMS, INC.
QOS OPTIMIZATION WITH COMPRESSION	11/066992	7843938	2/25/2005	11/30/2010	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR ESTABLISHING A VIRTUAL PRIVATE NETWORK	11/039946	7757074	1/24/2005	7/13/2010	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0309

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHODS AND SYSTEMS FOR GENERATING PLAYBACK INSTRUCTIONS FOR RENDERING OF A RECORDED COMPUTER SESSION	11/036489	8340130	1/14/2005	12/25/2012	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR REAL-TIME SEEKING DURING PLAYBACK OF REMOTE PRESENTATION PROTOCOLS	11/035851	8145777	1/14/2005	3/27/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR PERMISSION-BASED ACCESS USING A SHARED ACCOUNT	11/035834	7562226	1/14/2005	7/14/2009	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR GENERATING PLAYBACK INSTRUCTIONS FOR PLAYBACK OF A RECORDED COMPUTER SESSION	11/035511	8230096	1/14/2005	7/24/2012	Granted	CITRIX SYSTEMS, INC.
AUTHENTICATING A CLIENT USING LINKED AUTHENTICATION CREDENTIALS	11/023649	7603700	12/29/2004	10/13/2009	Granted	CITRIX SYSTEMS, INC.
PROTECTING DATA INTEGRITY IN AN ENHANCED NETWORK CONNECTION	11/014532	7551620	12/15/2004	6/23/2009	Granted	CITRIX SYSTEMS, INC.
SYSTEM, APPARATUS AND METHOD FOR ESTABLISHING A SECURED COMMUNICATIONS LINK TO FORM A VIRTUAL PRIVATE NETWORK AT A NETWORK PROTOCOL LAYER OTHER THAN AT WHICH PACKETS ARE FILTERED	10/988004	7496097	11/12/2004	2/24/2009	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0310

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
REMOTE ESTIMATION OF ROUND-TRIP DELAYS IN A DATA NETWORK	10/975641	7443801	10/28/2004	10/28/2008	Granted	CITRIX SYSTEMS, INC.
METHOD AND APPARATUS FOR ASSIGNING ACCESS CONTROL LEVELS IN PROVIDING ACCESS TO NETWORKED CONTENT FILES	10/956832	7865603	10/1/2004	1/4/2011	Granted	CITRIX SYSTEMS, INC.
METHOD AND APPARATUS FOR PROVIDING POLICY-BASED DOCUMENT CONTROL	10/956764	7870294	10/1/2004	1/11/2011	Granted	CITRIX SYSTEMS, INC.
METHOD AND APPARATUS FOR MOVING PROCESSES BETWEEN ISOLATION ENVIRONMENTS	10/956723	8042120	10/1/2004	10/18/2011	Granted	CITRIX SYSTEMS, INC.
ADVANCED CONTENT AND DATA DISTRIBUTION TECHNIQUES	10/949993	7555532	9/23/2004	6/30/2009	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FOR SECURE ONLINE ACCESS ON A CLIENT DEVICE	10/931405	7797724	8/31/2004	9/14/2010	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR KEY RECOVERY	10/908318	7831833	5/6/2005	11/9/2010	Granted	CITRIX SYSTEMS, INC.
METHOD AND APPARATUS FOR UPDATING A GRAPHICAL DISPLAY IN A DISTRIBUTED PROCESSING ENVIRONMENT USING COMPRESSION	10/906955	8423673	3/14/2005	4/16/2013	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0311

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHOD AND APPARATUS FOR UPDATING A GRAPHICAL DISPLAY IN A DISTRIBUTED PROCESSING ENVIRONMENT	10/906954	8171169	3/14/2005	5/1/2012	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR REQUESTING AND GRANTING MEMBERSHIP IN A SERVER FARM	10/905655	8042165	1/14/2005	10/18/2011	Granted	CITRIX SYSTEMS, INC.
EARLY GENERATION OF ACKNOWLEDGEMENTS FOR FLOW CONTROL	10/902509	7698453	7/28/2004	4/13/2010	Granted	CITRIX SYSTEMS, INC.
WAVEFRONT DETECTION AND DISAMBIGUATION OF ACKNOWLEDGMENTS	10/902493	7616638	7/28/2004	11/10/2009	Granted	CITRIX SYSTEMS, INC.
TCP SELECTIVE ACKNOWLEDGEMENTS FOR COMMUNICATING DELIVERED AND MISSED DATA PACKETS	10/902491	7630305	7/28/2004	12/8/2009	Granted	CITRIX SYSTEMS, INC.
FLOW CONTROL SYSTEM ARCHITECTURE	10/901952	7656799	7/28/2004	2/2/2010	Granted	CITRIX SYSTEMS, INC.
TRANSACTION BOUNDARY DETECTION FOR REDUCTION IN TIMEOUT PENALTIES	10/901940	8233392	7/28/2004	7/31/2012	Granted	CITRIX SYSTEMS, INC.
AUTOMATIC DETECTION AND WINDOW VIRTUALIZATION FOR FLOW CONTROL	10/901691	8238241	7/28/2004	8/7/2012	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0312

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
END USER RISK MANAGEMENT	10/894714	7490356	7/20/2004	2/10/2009	Granted	CITRIX SYSTEMS, INC.
INFERRING SERVER STATE IN S STATELESS COMMUNICATION PROTOCOL	10/877362	8051207	6/25/2004	11/1/2011	Granted	CITRIX SYSTEMS, INC.
POLICY BASED NETWORK ADDRESS TRANSLATION	10/857225	7760729	5/28/2004	7/20/2010	Granted	CITRIX SYSTEMS, INC.
MULTILAYER ACCESS CONTROL SECURITY SYSTEM	10/857224	7900240	5/28/2004	3/1/2011	Granted	CITRIX SYSTEMS, INC.
APPARATUS, METHOD AND COMPUTER PROGRAM PRODUCT FOR GUARANTEED CONTENT DELIVERY INCORPORATING PUTTING A CLIENT ON-HOLD BASED ON RESPONSE TIME	10/826268	7836191	4/19/2004	11/16/2010	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR PROVIDING DOCUMENT RETENTION USING CRYPTOGRAPHY	10/815251	8613102	3/30/2004	12/17/2013	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR PROVIDING CRYPTOGRAPHIC DOCUMENT RETENTION WITH OFF-LINE ACCESS	10/815229	7748045	3/30/2004	6/29/2010	Granted	CITRIX SYSTEMS, INC.
USING STATISTICAL ANALYSIS TO GENERATE EXCEPTION RULES THAT ALLOW LEGITIMATE MESSAGES TO PASS THROUGH APPLICATION PROXIES AND GATEWAYS	10/782739	7890996	2/18/2004	2/15/2011	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0313

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
RULE GENERALIZATION FOR WEB APPLICATION ENTRY POINT MODELING	10/782726	7774834	2/18/2004	8/10/2010	Granted	CITRIX SYSTEMS, INC.
INFERENCING DATA TYPES OF MESSAGE COMPONENTS	10/782529	7617531	2/18/2004	11/10/2009	Granted	CITRIX SYSTEMS, INC.
METHOD AND APPARATUS FOR ISOLATING EXECUTION OF SOFTWARE APPLICATIONS	10/711737	7680758	9/30/2004	3/16/2010	Granted	CITRIX SYSTEMS, INC.
METHOD AND APPARATUS FOR PROVIDING AN AGGREGATE VIEW OF ENUMERATED SYSTEM RESOURCES FROM VARIOUS ISOLATION LAYERS	10/711736	8171479	9/30/2004	5/1/2012	Granted	CITRIX SYSTEMS, INC.
SYSTEM FOR VIRTUALIZING ACCESS TO NAMED SYSTEM OBJECTS USING RULE ACTION ASSOCIATED WITH REQUEST	10/711735	7853947	9/30/2004	12/14/2010	Granted	CITRIX SYSTEMS, INC.
METHOD AND APPARATUS FOR VIRTUALIZING WINDOW INFORMATION	10/711733	8117559	9/30/2004	2/14/2012	Granted	CITRIX SYSTEMS, INC.
METHOD AND APPARATUS FOR PROVIDING FILE-TYPE ASSOCIATIONS TO MULTIPLE APPLICATIONS	10/711732	7752600	9/30/2004	7/6/2010	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0314

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
METHOD AND APPARATUS FOR PROVIDING AUTHORIZED REMOTE ACCESS TO APPLICATION SESSIONS	10/711731	8613048	9/30/2004	12/17/2013	Granted	CITRIX SYSTEMS, INC.
METHOD AND APPARATUS FOR REDUCING DISCLOSURE OF PROPRIETARY DATA IN A NETWORKED ENVIRONMENT	10/711730	7711835	9/30/2004	5/4/2010	Granted	CITRIX SYSTEMS, INC.
METHOD AND APPARATUS FOR ASSOCIATING TICKETS IN A TICKET HIERARCHY	10/711729	7748032	9/30/2004	6/29/2010	Granted	CITRIX SYSTEMS, INC.
PERSISTENT AND RELIABLE SESSION SECURELY TRAVERSING NETWORK COMPONENTS USING AN ENCAPSULATING PROTOCOL	10/711719	7984157	9/30/2004	7/19/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR DATA SYNCHRONIZATION OVER A NETWORK USING A PRESENTATION LEVEL PROTOCOL	10/711699	8069226	9/30/2004	11/29/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR EVENT DETECTION AND RE-DIRECTION OVER A NETWORK USING A PRESENTATION LEVEL PROTOCOL	10/711647	7702750	9/29/2004	4/20/2010	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR REMOTING TWAIN FUNCTION CALLS FROM A USER SESSION TO A CLIENT SYSTEM	10/711612	7712110	9/28/2004	5/4/2010	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0315

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR VIRTUAL HOST NAME ROAMING	10/711591	7756984	9/27/2004	7/13/2010	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR ASSIGNING UNIQUE IDENTIFIERS TO EACH REMOTE DISPLAY PROTOCOL SESSION ESTABLISHED VIA AN INTERMEDIARY DEVICE	10/711583	7984192	9/27/2004	7/19/2011	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR EXECUTING INTERACTIVE APPLICATIONS WITH MINIMAL PRIVILEGES	10/710350	7587755	7/2/2004	9/8/2009	Granted	CITRIX SYSTEMS, INC.
METHOD OF DETERMINING PATH MAXIMUM TRANSMISSION UNIT	10/696507	7542471	10/29/2003	6/2/2009	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FOR MAKING A HYPERMEDIUM INTERACTIVE	10/689824	7359953	10/20/2003	4/15/2008	Granted	CITRIX SYSTEMS, INC.
ENCAPSULATING PROTOCOL FOR SESSION PERSISTENCE AND RELIABILITY	10/683881	7562146	10/10/2003	7/14/2009	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FOR PROVIDING ACCESS TO PERSISTENT APPLICATION SESSIONS	10/683548	7594018	10/10/2003	9/22/2009	Granted	CITRIX SYSTEMS, INC.
ENFORCEMENT OF NETWORK SERVICE LEVEL AGREEMENTS	10/626629	7818252	7/25/2003	10/19/2010	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0316

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DISTRIBUTED COMPUTER MONITORING SYSTEM AND METHODS FOR AUTONOMOUS COMPUTER MANAGEMENT	10/626394	7269757	7/24/2003	9/11/2007	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR ESTABLISHING THE IDENTITY OF AN ORIGINATOR OF COMPUTER TRANSACTIONS	10/583578	8234699	12/22/2004	7/31/2012	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FOR GENERATING GRAPHICAL AND MEDIA DISPLAYS AT A CLIENT	10/507469	8131816	3/18/2005	3/6/2012	Granted	CITRIX SYSTEMS, INC.
ADAPTIVE TRANSMISSION RATE AND FRAGMENTATION THRESHOLD MECHANISM FOR LOCAL AREA NETWORKS	10/448184	7388903	5/29/2003	6/17/2008	Granted	CITRIX SYSTEMS, INC.
IMPLEMENTING SINGLE SIGN-ON ACROSS A HETEROGENEOUS COLLECTION OF CLIENT/SERVER AND WEB-BASED APPLICATIONS	10/424995	7500262	4/29/2003	3/3/2009	Granted	CITRIX SYSTEMS, INC.
COMPUTER SECURITY SYSTEM	10/423444	7644434	4/25/2003	1/5/2010	Granted	CITRIX SYSTEMS, INC.
UTILIZATION OF MEMORY STORAGE	10/314900	7765378	12/9/2002	7/27/2010	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR PROVIDING LOCATION BASED INFORMATION	10/259089	7116993	9/27/2002	10/3/2006	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEM AND METHOD OF NETWORK BOOTING OF AN OPERATING SYSTEM TO A CLIENT COMPUTER USING HIBERNATION	10/125265	6954852	4/18/2002	10/11/2005	Granted	CITRIX SYSTEMS, INC.
SYSTEM FOR AN METHOD OF STREAMING DATA TO A COMPUTER IN A NETWORK	10/124877	7321936	4/18/2002	1/22/2008	Granted	CITRIX SYSTEMS, INC.
VIDEO-VOICEMAIL SOLUTION FOR WIRELESS COMMUNICATION DEVICES	10/104934	7092735	3/22/2002	8/15/2006	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR PROVIDING ACCESS TO AN APPLICATION	10/104863	8135843	3/22/2002	3/13/2012	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR GENERATING A GRAPHICAL DISPLAY FOR A REMOTE TERMINAL SESSION	10/098157	7376695	3/14/2002	5/20/2008	Granted	CITRIX SYSTEMS, INC.
SECURE TRAVERSAL OF NETWORK COMPONENTS	10/083324	7661129	2/26/2002	2/9/2010	Granted	CITRIX SYSTEMS, INC.
LOCAL AGENT FOR REMOTE FILE ACCESS SYSTEM	10/053402	9332058	1/17/2002	5/3/2016	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR INTERNET CONTENT COLLABORATION	10/016689	7290061	12/5/2001	10/30/2007	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0318

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEM FOR AN OPEN ARCHITECTURE DEVELOPMENT PLATFORM WITH CENTRALIZED SYNCHRONIZATION	09/985878	7353289	11/6/2001	4/1/2008	Granted	CITRIX SYSTEMS, INC.
METHOD FOR DISTRIBUTED PROGRAM EXECUTION WITH WEB-BASED FILE-TYPE ASSOCIATION	09/970462	7330872	10/2/2001	2/12/2008	Granted	CITRIX SYSTEMS, INC.
METHODS FOR DISTRIBUTED PROGRAM EXECUTION WITH FILE-TYPE ASSOCIATION IN A CLIENT-SERVER NETWORK	09/970038	7117243	10/2/2001	10/3/2006	Granted	CITRIX SYSTEMS, INC.
METHOD FOR DISTRIBUTED PROGRAM EXECUTION WITH SERVER-BASED FILE TYPE ASSOCIATION	09/970037	6952714	10/2/2001	10/4/2005	Granted	CITRIX SYSTEMS, INC.
NON-INTRUSIVE MULTIPLEXED TRANSACTION PERSISTENCY IN SECURE COMMERCE ENVIRONMENTS	09/921832	7177945	8/3/2001	2/13/2007	Granted	CITRIX SYSTEMS, INC.
HIGH PERFORMANCE SERVER FARM WITH TAGGING AND PIPELINING	09/921460	7062570	8/3/2001	6/13/2006	Granted	CITRIX SYSTEMS, INC.
INTELLIGENT DEMAND DRIVEN RECOGNITION OF URL OBJECTS IN CONNECTION ORIENTED TRANSACTIONS	09/921458	7228350	8/3/2001	6/5/2007	Granted	CITRIX SYSTEMS, INC.
SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT TO MAXIMIZE	09/912401	7774492	7/26/2001	8/10/2010	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0319

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SERVER THROUGHPUT WHILE AVOIDING SERVER OVERLOAD BY CONTROLLING THE RATE OF ESTABLISHING SERVER-SIDE NET WORK CONNECTIONS						
DEEP PACKET SCAN HACKER IDENTIFICATION	09/894918	7725587	6/29/2001	5/25/2010	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FOR EXTENDIBLE INFORMATION AGGREGATION AND PRESENTATION	09/891821	6886046	6/26/2001	4/26/2005	Granted	CITRIX SYSTEMS, INC.
METHOD AND APPARATUS FOR TRANSMITTING AUTHENTICATION CREDENTIALS OF A USER ACROSS COMMUNICATION SESSIONS	09/880268	7100200	6/13/2001	8/29/2006	Granted	CITRIX SYSTEMS, INC.
LOCAL PROTOCOL SERVER	09/867546	7113520	5/31/2001	9/26/2006	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR EFFICIENTLY REDUCING GRAPHICAL DISPLAY DATA FOR TRANSMISSION OVER A LOW BANDWIDTH TRANSPORT PROTOCOL MECHANISM	09/866531	7028025	5/25/2001	4/11/2006	Granted	CITRIX SYSTEMS, INC.
REDUCING THE AMOUNT OF GRAPHICAL LINE DATA TRANSMITTED VIA A LOW BANDWIDTH TRANSPORT PROTOCOL MECHANISM	09/866520	7127525	5/25/2001	10/24/2006	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0320

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
REMOTE CONTROL OF A CLIENT'S OFF-SCREEN SURFACE	09/866375	7490166	5/25/2001	2/10/2009	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FOR COMMUNICATING CHANGES BETWEEN A USER INTERFACE AND AN EXECUTING APPLICATION USING PROPERTY PATHS	09/846896	7194743	5/1/2001	3/20/2007	Granted	CITRIX SYSTEMS, INC.
SCALABLE DERIVATIVE SERVICES	09/767365	7793220	1/22/2001	9/7/2010	Granted	CITRIX SYSTEMS, INC.
REDUCING STACK MEMORY RESOURCES IN A THREADED COMPUTER SYSTEM	09/740661	6968557	12/18/2000	11/22/2005	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD OF EXPLOITING THE SECURITY OF A SECURE COMMUNICATION CHANNEL TO SECURE A NON-SECURE COMMUNICATION CHANNEL	09/706117	6986040	11/3/2000	1/10/2006	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FOR REGENERATING AND TRANSMITTING A PARTIAL PAGE	09/704904	7051084	11/2/2000	5/23/2006	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FOR INCORPORATING A PARTIAL PAGE ON A CLIENT	09/704896	7346842	11/2/2000	3/18/2008	Granted	CITRIX SYSTEMS, INC.
APPARATUS, METHOD AND COMPUTER PROGRAM PRODUCT FOR EFFICIENTLY POOLING	09/690437	7801978	10/18/2000	9/21/2010	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0321

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
CONNECTIONS BETWEEN CLIENTS AND SERVERS						
SYSTEM AND METHOD FOR REAL-TIME ALERTS	09/654801	7191223	9/5/2000	3/13/2007	Granted	CITRIX SYSTEMS, INC.
METHODS AND APPARATUS FOR ASSOCIATING A USER WITH CONTENT IN A COLLABORATIVE WHITEBOARD SYSTEM	09/642531	7219233	8/18/2000	5/15/2007	Granted	CITRIX SYSTEMS, INC.
STRONG MUTUAL AUTHENTICATION OF DEVICES	09/617380	7020773	7/17/2000	3/28/2006	Granted	CITRIX SYSTEMS, INC.
CONNECTION LEASING WITH MULTI-FACTOR AUTHENTICATION IN OFFLINE AND CLOUD OUTAGE CONDITIONS	63/203025	—	7/6/2021	—	Unpublished Provisional	CITRIX SYSTEMS, INC.
CANCELLABLE WEB-BASED AUTHENTICATION UI WITH BROWSER EXTENSION AS A WATCHDOG	63/189380	—	5/17/2021	—	Unpublished Provisional	CITRIX SYSTEMS, INC.
MULTI-HOP CONNECTION LEASING	63/178762	—	4/23/2021	—	Unpublished Provisional	CITRIX SYSTEMS, INC.
HOST TO CLIENT DRAG AND DROP OPERATIONS	63/154359	—	2/26/2021	—	Provisional	CITRIX SYSTEMS, INC.
COMPUTING DEVICE AND ASSOCIATED METHODS PROVIDING	63/149807	—	2/16/2021	—	Provisional	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
BROWSER LAUNCHING OF VIRTUAL SESSIONS IN AN APPLICATION						
BUBBLES ICON	29/724678	—	2/18/2020	—	Unpublished	CITRIX SYSTEMS, INC.
INTER-APPLICATION RELEVANCE MANAGEMENT FOR APPLICATION VIRTUALIZATION PLATFORM	17/732783	20220253326	4/29/2022	---	Pending	CITRIX SYSTEMS, INC.
SECURE DEVICE NOTIFICATIONS FROM REMOTE APPLICATIONS	17/730947	20220255912	4/27/2022	---	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING DATA LOSS PREVENTION VIA AN EMBEDDED BROWSER	17/728404	20220245262	4/25/2022	---	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROCESSING SOFTWARE APPLICATION NOTIFICATIONS	17/725745	20220245017	4/21/2022	---	Pending	CITRIX SYSTEMS, INC.
MULTIPLE GEOGRAPHY SERVICE ROUTING	17/722769	20220239756	4/18/2022	---	Pending	CITRIX SYSTEMS, INC.
AUTO-SCALING FOR ALLOCATION OF CLOUD SERVICE RESOURCES IN APPLICATION DEPLOYMENTS	17/720867	20220237034	4/14/2022	---	Pending	CITRIX SYSTEMS, INC.
BEHAVIOR-BASED AUTHENTICATION	17/719731	20220239658	4/13/2022	---	Pending	CITRIX SYSTEMS, INC.
VIRTUAL WORKSPACE EXPERIENCE VISUALIZATION AND OPTIMIZATION	17/713764	20220232101	4/5/2022	---	Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0323

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
APPLYING APPLICATION LAYER POLICY TO TRANSPORT LAYER SECURITY REQUESTS SYSTEMS AND METHODS	17/713678	20220232043	4/5/2022	---	Pending	CITRIX SYSTEMS, INC.
API DEPENDENCY ERROR AND LATENCY INJECTION	17/708701	20220224619	3/30/2022	---	Pending	CITRIX SYSTEMS, INC.
RESOURCE APPROPRIATION IN A MULTI-TENANT ENVIRONMENT USING RISK AND VALUE MODELING SYSTEMS AND METHODS	17/707395	20220224694	3/29/2022	---	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR TRAFFIC OPTIMIZATION VIA SYSTEM ON CHIP OF INTERMEDIARY DEVICE	17/705793	20220214898	3/28/2022	---	Pending	CITRIX SYSTEMS, INC.
ROBUST SUSPENSION AND RESUMPTION OF DESKTOP VIRTUALIZATION	17/701895	20220217064	3/23/2022	---	Pending	CITRIX SYSTEMS, INC.
FLOWCHART-STYLE DIAGRAMMING TOOL TO BUILD AUTOMATED WORKFLOWS	17/699988	20220206678	3/21/2022	---	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DEEP LINKING OF SAAS APPLICATION VIA EMBEDDED BROWSER	17/695534	20220207105	3/15/2022	---	Pending	CITRIX SYSTEMS, INC.
PEER TO PEER REMOTE APPLICATION DISCOVERY	17/693591	20220210223	3/14/2022	---	Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0324

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR IMPROVED REMOTE DISPLAY PROTOCOL FOR HTML APPLICATIONS	17/692685	2022019790	3/11/2022	---	Pending	CITRIX SYSTEMS, INC.
MULTIFACTOR CONTEXTUAL AUTHENTICATION AND ENTROPY FROM DEVICE OR DEVICE INPUT OR GESTURE AUTHENTICATION	17/681035	20220247739	2/25/2022	---	Pending	CITRIX SYSTEMS, INC.
DISPLAY MANAGEMENT FOR NATIVE USER EXPERIENCES	17/678679	20220179531	2/23/2022	---	Pending	CITRIX SYSTEMS, INC.
MANAGING BROWSER SESSION NAVIGATION BETWEEN ONE OR MORE BROWSERS	17/677224	20220247825	2/22/2022	---	Pending	CITRIX SYSTEMS, INC.
PROVIDING MOBILE DEVICE MANAGEMENT FUNCTIONALITIES	17/667019	20220231920	2/8/2022	---	Pending	CITRIX SYSTEMS, INC.
COMPUTING SYSTEM PROVIDING SAAS APPLICATION ACCESS WITH DIFFERENT CAPABILITIES BASED UPON USER PERSONAS	17/659360	20220239647	4/15/2022	---	Pending	CITRIX SYSTEMS, INC.
OUT OF BAND LAYER SCRUBBING	17/650254	20220156064	2/8/2022	---	Pending	CITRIX SYSTEMS, INC.
SINGLE-SIGN-ON FOR THIRD PARTY MOBILE APPLICATIONS	17/649940	20220158990	2/4/2022	---	Pending	CITRIX SYSTEMS, INC.
PROVISIONING SERVICES (PVS) CLOUD STREAMING WITH READ CACHE	17/649803	20220156090	2/3/2022	---	Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0325

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
ERROR REMEDIATION SYSTEMS AND METHODS	17/648712	20220147415	1/24/2022	---	Pending	CITRIX SYSTEMS, INC.
SESSION TRIAGE AND REMEDIATION SYSTEMS AND METHODS	17/648711	20220147411	1/24/2022	---	Pending	CITRIX SYSTEMS, INC.
ON-DEMAND APPLICATIONS	17/647875	20220137991	1/13/2022	---	Pending	CITRIX SYSTEMS, INC.
MEETING ROOM RESERVATION SYSTEM AND RELATED TECHNIQUES	17/646552	20220123953	12/30/2021	---	Pending	CITRIX SYSTEMS, INC.
COLOR SCHEME GENERATOR FOR WEB APPLICATIONS	17/646495	20220121726	12/30/2021	---	Pending	CITRIX SYSTEMS, INC.
PROVIDING USER INTERFACE (UI) ELEMENTS HAVING AN ORDERED HIERARCHY OF GRAPHICAL CONTROL ELEMENTS IN VIRTUAL MACHINE SESSIONS AT REDUCED LATENCY AND RELATED METHODS	17/643882	20220100538	12/13/2021	---	Pending	CITRIX SYSTEMS, INC.
PROVIDING USER INTERFACE (UI) ELEMENTS HAVING SCROLLABLE CONTENT IN VIRTUAL MACHINE SESSIONS AT REDUCED LATENCY AND RELATED METHODS	17/643598	20220100537	12/10/2021	---	Pending	CITRIX SYSTEMS, INC.
COMPUTER SYSTEM PROVIDING USER SPECIFIC SESSION PRELAUNCH FEATURES AND RELATED METHODS	17/643496	20220103640	12/9/2021	---	Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0326

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
MICROAPP RECOMMENDATIONS FOR NETWORKED APPLICATION FUNCTIONALITY	17/643445	—	12/9/2021	—	Unpublished	CITRIX SYSTEMS, INC.
PROVIDING USER INTERFACE (UI) ELEMENTS IN VIRTUAL MACHINE SESSIONS AT REDUCED LATENCY	17/643429	20220100536	12/9/2021	---	Pending	CITRIX SYSTEMS, INC.
SENTRY MODE FOR CITRIX WORKSPACE TO AVOID UNEXPECTED INTERFERENCE IN COMMUNICATION SCENARIOS	17/643253	—	12/8/2021	—	Unpublished	CITRIX SYSTEMS, INC.
REAL-TIME HISTORY-BASED BYTE STREAM COMPRESSION	17/614853	20220231699	11/29/2021	—	Pending	CITRIX SYSTEMS, INC.
AUTHENTICATING TO A HYBRID CLOUD USING INTRANET CONNECTIVITY AS SILENT AUTHENTICATION FACTOR	17/589149	20220148977	1/31/2022	---	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR WATERMARKING AUDIO OF SAAS APPLICATIONS	17/572834	20220130401	1/11/2022	---	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR TRAFFIC INSPECTION VIA AN EMBEDDED BROWSER	17/572048	20220131886	1/10/2022	---	Pending	CITRIX SYSTEMS, INC.
UNIFIED APPLICATION NOTIFICATION FRAMEWORK	17/570085	20220129198	1/6/2022	---	Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0327

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
ADAPTIVE SESSION RELIABILITY OVER MULTIPLE TRANSPORTS	17/569046	20220131957	1/5/2022	---	Pending	CITRIX SYSTEMS, INC.
REAL-TIME SCALABLE VIRTUAL SESSION AND NETWORK ANALYTICS	17/567644	20220131771	1/3/2022	---	Pending	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR PROCESSING NETWORK DATA	17/567256	20220124012	1/3/2022	---	Pending	CITRIX SYSTEMS, INC.
SECURE WEB APPLICATION DELIVERY PLATFORM	17/565980	20220124088	12/30/2021	---	Pending	CITRIX SYSTEMS, INC.
SECURE WEB APPLICATION DELIVERY PLATFORM	17/565939	20220124087	12/30/2021	---	Pending	CITRIX SYSTEMS, INC.
M CREATION BY INSTALLATION MEDIA PROBE	17/563672	20220121472	12/28/2021	---	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR LIVE TILES FOR SAAS	17/562634	20220121333	12/27/2021	---	Pending	CITRIX SYSTEMS, INC.
PROVIDING MICRO FIREWALL LOGIC TO A MOBILE APPLICATION	17/559400	20220116358	12/22/2021	---	Pending	CITRIX SYSTEMS, INC.
REMOTING OR LOCALIZING TOUCH GESTURES	17/550111	20220107688	12/14/2021	---	Pending	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD TO EFFECTIVELY ALLOCATE COMPUTING RESOURCES TO END USERS	17/545609	—	12/8/2021	—	Unpublished	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0328

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DEVICE AUGMENTATION OF REAL TIME COMMUNICATIONS	17/544185	20220092143	12/7/2021	---	Pending	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR DERIVING NETWORK ADDRESS SPACES AFFECTED BY SECURITY THREATS TO APPLY MITIGATIONS	17/541923	—	12/3/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ENCRYPTED BROWSER CACHE	17/540883	20220094672	12/2/2021	---	Pending	CITRIX SYSTEMS, INC.
NOTIFICATIONS IN EXTENDED REALITY ENVIRONMENTS	17/540516	—	12/2/2021	—	Unpublished	CITRIX SYSTEMS, INC.
DYNAMIC USER INTERFACE AND DATA COMMUNICATIONS VIA EXTENDED REALITY ENVIRONMENT	17/540509	—	12/2/2021	—	Unpublished	CITRIX SYSTEMS, INC.
REMOTE MANAGEMENT OF DISTRIBUTED DATACENTERS	17/540488	20220091889	12/2/2021	---	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DEVELOPMENT OF WEB PRODUCTS	17/539644	20220092137	12/1/2021	---	Pending	CITRIX SYSTEMS, INC.
DISTRIBUTED SECURITY ANALYSIS FOR SHARED CONTENT	17/539455	20220092029	3/24/2022	---	Pending	CITRIX SYSTEMS, INC.
INTERMEDIATED RETRIEVAL OF NETWORKED CONTENT	17/539443	20220094762	12/1/2021	---	Pending	CITRIX SYSTEMS, INC.
DYNAMIC CONTROL OF AUDIO	17/538432	—	11/30/2021	—	Unpublished	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0329

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
INTEGRATED VIDEO CONFERENCING PLATFORM	17/537601	—	11/30/2021	—	Unpublished	CITRIX SYSTEMS, INC.
REAL-TIME SCALABLE VIRTUAL SESSION AND NETWORK ANALYTICS	17/536587	20220086063	11/29/2021	---	Pending	CITRIX SYSTEMS, INC.
DIGITAL FORM FROM PHYSICAL PAPER FORM	17/536525	—	11/29/2021	—	Unpublished	CITRIX SYSTEMS, INC.
VOICE ASSISTED REMOTE SCREEN SHARING	17/534603	—	11/24/2021	—	Unpublished	CITRIX SYSTEMS, INC.
IMAGE DATE AUGMENTATION USING USER INTERFACE ELEMENT ATTRIBUTES	17/532534	—	11/22/2021	—	Unpublished	CITRIX SYSTEMS, INC.
A MECHANISM TO PROTECT THE SENSITIVE DATA SUCH AS PASSWORD FROM REVEALING BY IMPLEMENTING AN KEYBOARD INPUT LOCK	17/529369	—	11/18/2021	—	Unpublished	CITRIX SYSTEMS, INC.
AUTO TRANSFER INTELLIGENT MOBILE DEVICES TO BEST FIT VIRTUAL INPUT SOURCE FOR THE VIRTUALIZATION CLIENT	17/528998	—	11/17/2021	—	Unpublished	CITRIX SYSTEMS, INC.
CENTRALIZED RESOURCE MANAGEMENT FOR DISPARATE COMMUNICATION PLATFORMS	17/528769	—	11/17/2021	—	Unpublished	CITRIX SYSTEMS, INC.
PROVISION OF REMOTE APPLICATION ACTION FEED CARDS	17/572237	20220129811	1/10/2022	---	Pending	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DYNAMIC REGION BASED APPLICATION OPERATIONS	17/526552	20220076094	11/15/2021	---	Pending	CITRIX SYSTEMS, INC.
USER AUTHENTICATION TECHNIQUES	17/525049	—	11/12/2021	—	Unpublished	CITRIX SYSTEMS, INC.
KEYBOARD ACCESSIBLE WEB PAGE EMBEDDED INTERACTIVE ELEMENT	17/524821	—	11/12/2021	—	Unpublished	CITRIX SYSTEMS, INC.
INSTANT VIRTUAL APPLICATION LAUNCH	17/524811	20220075635	11/12/2021	---	Pending	CITRIX SYSTEMS, INC.
FAST LAUNCH BASED ON HIBERNATED PRELAUNCH SESSIONS	17/524171	—	11/11/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SECURE DEVICE SELECTION BASED ON SENSITIVE CONTENT DETECTION	17/523181	20220070206	11/10/2021	---	Pending	CITRIX SYSTEMS, INC.
POLICY BASED NOTIFICATION PROTECTION SERVICE IN WORKSPACE	17/521495	20220067197	11/8/2021	---	Pending	CITRIX SYSTEMS, INC.
ELECTRONIC DOCUMENT GENERATION AND EXECUTION	17/518161	—	11/3/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SHARING SAAS CONTENT ACROSS WORKSPACE	17/517969	20220060546	11/3/2021	---	Pending	CITRIX SYSTEMS, INC.
CUSTOMIZING APPLICATION EXTENSIONS TO ENABLE USE OF MICROAPPS	17/516868	—	11/2/2021	—	Unpublished	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0331

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DYNAMIC SECURITY CHALLENGE AUTHENTICATION	17/515288	—	10/29/2021	—	Unpublished	CITRIX SYSTEMS, INC.
NETWORK SENSITIVE FILE TRANSFER	17/515684	20220078227	11/1/2021	---	Pending	CITRIX SYSTEMS, INC.
GENERATING CONVERSATION MODELS FROM DOCUMENTS	17/514683	---	10/29/2021	---	Pending	CITRIX SYSTEMS, INC.
CENTRALIZED COLLECTION OF APPLICATION FILES	17/514294	—	10/29/2021	—	Unpublished	CITRIX SYSTEMS, INC.
TASK ALLOCATION IN A CLOUD ENVIRONMENT	17/514051	—	10/29/2021	—	Unpublished	CITRIX SYSTEMS, INC.
DETECTING UNEVEN LOAD BALANCING THROUGH MULTI-LEVEL OUTLIER DETECTION	17/513527	20220053051	10/28/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ACCESSING ONLINE MEETING MATERIALS	17/512735	—	10/28/2021	—	Unpublished	CITRIX SYSTEMS, INC.
INFERRING RADIO TYPE FROM CLUSTERING ALGORITHMS	17/512343	20220116279	10/27/2021	---	Pending	CITRIX SYSTEMS, INC.
MULTI-PIXEL CACHING SCHEME FOR LOSSLESS ENCODING	17/509844	20220116634	10/25/2021	---	Pending	CITRIX SYSTEMS, INC.
FACILITATED LIVE ANALYSIS OF SCREEN CONTENT	17/509720	—	10/25/2021	—	Unpublished	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0332

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR AN EMBEDDED BROWSER	17/509421	20220046044	10/25/2021	---	Pending	CITRIX SYSTEMS, INC.
METHODS FOR ENHANCING A LEGACY SINGLE TENANT APPLICATION SYSTEM TO A MULTI-TENANT APPLICATION SYSTEM WITH MINIMAL CHANGES	17/509313	20220043829	10/25/2021	---	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DETECTING AND PREDICTING VIRTUAL CPU RESOURCE STARVATION OF A VIRTUAL MACHINE	17/508326	—	10/22/2021	—	Unpublished	CITRIX SYSTEMS, INC.
UPDATING VIRTUAL IMAGES OF COMPUTING ENVIRONMENTS	17/508225	—	10/22/2021	—	Unpublished	CITRIX SYSTEMS, INC.
IDF - AI BASED LABELING OR IDENTIFICATION OF USER IN CITRIX FILES AUDIO OR VIDEO RECORDING NOTES	17/508212	—	10/22/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SIMPLIFIED RECORDING AND SHARING OF DATA	17/507685	20220046079	10/21/2021	---	Pending	CITRIX SYSTEMS, INC.
AUTOMATED TRANSFER OF PERIPHERAL DEVICE OPERATIONS	17/505921	—	10/20/2021	—	Unpublished	CITRIX SYSTEMS, INC.
USER SPACE DRIVER FOR I/O TRAFFIC DISTRIBUTION AND PACKET PROCESSING	17/505089	—	10/19/2021	—	Unpublished	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0333

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
FACILITATING ACCESS TO API INTEGRATIONS	17/505065	—	10/19/2021	—	Unpublished	CITRIX SYSTEMS, INC.
A MAGNIFIER SOLUTION FOR VIRTUAL DESKTOP/APP SESSION ON MOBILE	17/504971	—	10/19/2021	—	Unpublished	CITRIX SYSTEMS, INC.
PERHIPHERAL DEVICE SHARING OVER PEER-TO-PEER CONNECTION	17/504686	20220038519	10/19/2021	---	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR TRANSPARENT SAAS DATA ENCRYPTION AND TOKENIZATION	17/503955	20220038441	10/18/2021	---	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SECURE SAAS REDIRECTION FROM NATIVE APPLICATIONS	17/503852	20220038453	10/18/2021	---	Pending	CITRIX SYSTEMS, INC.
BANDWIDTH SHARING AMONGST TRUSTED PEERS	17/502131	20220038995	10/15/2021	---	Pending	CITRIX SYSTEMS, INC.
PREVENTING MISDIRECTED PASSWORD ENTRY	17/501579	—	10/14/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO SECURE AUTHENTICATION DATA FOR ACCESSING RESOURCES IN A DISTRIBUTED MANNER	17/501500	—	10/14/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR APPLICATION PRE-LAUNCH	17/501476	20220070151	10/14/2021	---	Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0334

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
RESTRICTIONS ON VIRTUALIZED SESSIONS USING RISK FACTOR ASSESSMENT	17/501420	20220050913	10/14/2021	---	Pending	CITRIX SYSTEMS, INC.
TECHNIQUES FOR MODIFYING MARKINGS ON A DIGITIZED DOCUMENT	17/501417	—	10/14/2021	—	Unpublished	CITRIX SYSTEMS, INC.
INTELLIGENT CONTEXTUAL GROUPING OF NOTIFICATIONS IN AN ACTIVITY FEED	17/501165	20220066843	10/14/2021	---	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR TRANSFERRING DATA CORRESPONDING TO SCANNABLE CODES	17/500454	—	10/13/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD TO STATISTICALLY DETERMINE AND RECOMMEND BOUNCE-ABLE MACHINES TO IMPROVE USER EXPERIENCE	17/500409	—	10/13/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR AN INTERACTIVE USER INTERFACE FOR ELECTRONIC MESSAGES	17/499073	—	10/12/2021	—	Unpublished	CITRIX SYSTEMS, INC.
TIME ZONE TRANSLATION PLATFORM	17/499015	—	10/12/2021	—	Unpublished	CITRIX SYSTEMS, INC.
ACCESS FOR RESOURCES DURING REMOTE SESSION	17/498192	—	10/11/2021	—	Unpublished	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0335

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
MULTI-DEVICE WORKSPACE NOTIFICATIONS	17/498039	20220029948	10/11/2021	---	Pending	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR DETECTING MALICIOUS ATTEMPTS TO DISCOVER VULNERABILITIES IN A WEB APPLICATION	17/497294	—	10/8/2021	—	Unpublished	CITRIX SYSTEMS, INC.
IDENTIFYING USERS BASED ON TYPING BEHAVIOUR	17/495868	—	10/7/2021	—	Unpublished	CITRIX SYSTEMS, INC.
EXTENDING MANAGEMENT CONTROL TO IoT DEVICES	17/495054	20220030033	10/6/2021	---	Pending	CITRIX SYSTEMS, INC.
AUTHENTICATION USING DEVICE AND USER IDENTITY	17/495030	20220200999	10/6/2021	—	Pending	CITRIX SYSTEMS, INC.
BIDIRECTIONAL COMMUNICATION CLUSTERS	17/493410	20220030055	10/4/2021	---	Pending	CITRIX SYSTEMS, INC.
IMAGE ACQUISITION DEVICE VIRTUALIZATION FOR REMOTE COMPUTING	17/492297	20220021752	10/1/2021	---	Pending	CITRIX SYSTEMS, INC.
UNIFIED DISPLAY FOR VIRTUAL RESOURCES	17/492240	20220083180	10/1/2021	---	Pending	CITRIX SYSTEMS, INC.
SCREEN CAPTURE PROTECTION USING TIME DECOMPOSITION	17/491573	—	10/1/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO PROACTIVELY ALERT ADMINS OF	17/490796	—	9/30/2021	—	Unpublished	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
UPCOMING OR POSSIBLE NETWORK OUTAGES IN A SPECIFIC LOCATION						
OPTIMIZING SELECTION OF GATEWAYS BASED ON LOCATION AND USER EXPERIENCE RELATED METRICS	17/490397	—	9/30/2021	—	Unpublished	CITRIX SYSTEMS, INC.
TRACKING TAINTED CONNECTION AGENTS	17/490380	20220021532	9/30/2021	---	Pending	CITRIX SYSTEMS, INC.
SELECTION OF GATEWAYS FOR RECONNECTION UPON DETECTION OF REACHABILITY ISSUES WITH BACKEND RESOURCES	17/488663	—	9/29/2021	—	Unpublished	CITRIX SYSTEMS, INC.
AUTOMATED GENERATION OF OBJECTS FOR KUBERNETES SERVICES	17/487524	—	9/28/2021	—	Unpublished	CITRIX SYSTEMS, INC.
MASKED WATERMARKS AND RELATED SYSTEMS AND TECHNIQUES	17/484195	20220012311	9/24/2021	---	Pending	CITRIX SYSTEMS, INC.
SELF-FEDERATION IN AUTHENTICATION SYSTEMS	17/485695	20220014517	9/27/2021	---	Pending	CITRIX SYSTEMS, INC.
MECHANISMS FOR SECURE USER INPUT	17/486146	—	9/27/2021	—	Unpublished	CITRIX SYSTEMS, INC.
TRUST MONITORING FOR INPUT TO MESSAGING GROUP	17/482936	—	9/23/2021	—	Unpublished	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0337

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DIRECT LINKING WITHIN APPLICATIONS	17/482899	20220035499	9/23/2021	---	Pending	CITRIX SYSTEMS, INC.
SECURE AUTHENTICATION OF A DEVICE THROUGH ATTESTATION BY ANOTHER DEVICE	17/482053	20220014515	9/22/2021	---	Pending	CITRIX SYSTEMS, INC.
THIN PROVISIONING VIRTUAL DESKTOP INFRASTRUCTURE VIRTUAL MACHINES IN CLOUD ENVIRONMENTS WITHOUT THIN CLONE SUPPORT	17/481878	20220075640	9/22/2021	---	Pending	CITRIX SYSTEMS, INC.
HIGH SECURITY ONE-TIME ENCRYPTION	17/481809	—	9/22/2021	—	Unpublished	CITRIX SYSTEMS, INC.
CITRIX IME SOLUTIONS FOR CWA HTML5	17/481746	—	9/22/2021	—	Unpublished	CITRIX SYSTEMS, INC.
ENHANCED CLIENT-SIDE IME ON SECURE BROWSER	17/481736	—	9/22/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO FILTER OUT NOISY APPLICATION SIGNATURES TO IMPROVE PRECISION OF FIRST PACKET APPLICATION CLASSIFICATION	17/479923	20220006730	9/20/2021	---	Pending	CITRIX SYSTEMS, INC.
SECURE MESSAGE PASSING USING SEMI-TRUSTED INTERMEDIARIES	17/479291	20220006795	9/20/2021	---	Pending	CITRIX SYSTEMS, INC.
USING PRESSURE SENSOR DATA IN A REMOTE ACCESS ENVIRONMENT	17/474169	20210505839	9/14/2021		Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0338

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR DYNAMIC ROUTING ON A SHARED IP ADDRESS	17/473184	20210409319	9/13/2021	---	Pending	CITRIX SYSTEMS, INC.
PROVISIONING VIRTUAL MACHINES WITH A SINGLE IDENTITY AND CACHE VIRTUAL DISK	17/470631	20210406186	9/9/2021	---	Pending	CITRIX SYSTEMS, INC.
IMPROVING USER RESPONSIVENESS TO EVENTS INDICATED BY NOTIFICATIONS	17/468018	—	9/7/2021	—	Unpublished	CITRIX SYSTEMS, INC.
DYNAMIC CONFIGURATION IN CLOUD COMPUTING ENVIRONMENTS	17/468204	20210409270	9/7/2021	---	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SAAS APPLICATION PRESENTATION MODE ON MULTIPLE DISPLAYS	17/466793	20210397397	9/3/2021	---	Pending	CITRIX SYSTEMS, INC.
INCREASING CAPACITY IN A TOPIC-SUBSCRIPTION MESSAGING SYSTEM	17/465275	20210400002	9/2/2021	---	Pending	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR DATA LINKAGE AND ENTITY RESOLUTION OF CONTINUOUS AND UN-SYNCHRONIZED DATA STREAMS	17/463989	—	9/1/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SHARING VIRTUAL ENVIRONMENT DATA	17/462163	—	8/31/2021	—	Unpublished	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0339

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
AUTO TERMINATION OF APPLICATIONS BASED ON APPLICATION AND USER ACTIVITY	17/460565	20220027219	8/30/2021	---	Pending	CITRIX SYSTEMS, INC.
ELIMINATING CLOUD AGENT IN CUSTOMER ENVIRONMENT FOR CLOUD GATEWAY SERVICE USING MULTI-USE TOKEN	17/457992	—	12/7/2021	—	Unpublished	CITRIX SYSTEMS, INC.
EMAIL PHISHING PREVENTION THROUGH CONTEXTUAL UNFAMILIAR SITE INTERCEPTION	17/457530	—	12/3/2021	—	Unpublished	CITRIX SYSTEMS, INC.
COMPUTING SYSTEM PROVIDING CLOUD-BASED USER PROFILE MANAGEMENT FOR VIRTUAL SESSIONS AND RELATED METHODS	17/457474	20220094749	12/3/2021	---	Pending	CITRIX SYSTEMS, INC.
INTELLIGENT INVITATION SYSTEM	17/457072	—	12/1/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS PROVIDING CONNECTION LEASE ANTI-THEFT FEATURES FOR VIRTUAL COMPUTING SESSIONS	17/456961	20220086012	11/30/2021	---	Pending	CITRIX SYSTEMS, INC.
SECURE AUTHORIZATION	17/456213	—	11/23/2021	—	Unpublished	CITRIX SYSTEMS, INC.
VIRTUAL COMPUTING SYSTEM PROVIDING LOCAL SCREEN SHARING FROM HOSTED COLLABORATION APPLICATIONS AND RELATED METHODS	17/454491	20220086202	11/11/2021	---	Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0340

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
AN AUTO-DOCKING METHOD FOR BETTER COLLABORATION ACROSS MULTIPLE WINDOWS	17/454102	—	11/9/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR EXTRACTION OF USER INTENT FROM SPEECH OR TEXT	17/452638	20220051662	10/28/2021	---	Pending	CITRIX SYSTEMS, INC.
COMPUTING SYSTEM WITH DUAL VDA REGISTRATION AND RELATED METHODS	17/452623	20220050706	10/28/2021	---	Pending	CITRIX SYSTEMS, INC.
TASK ASSIGNMENT ARTIFICIAL INTELLIGENCE	17/452461	—	10/27/2021	—	Unpublished	CITRIX SYSTEMS, INC.
COORDINATED MICROSERVICES WORKER THROUGHPUT CONTROL	17/451713	—	10/21/2021	—	Unpublished	CITRIX SYSTEMS, INC.
DYNAMICALLY COORDINATED SERVICE MAINTENANCE OPERATIONS AND ADAPTIVE SERVICE POLLING FOR MICROSERVICES	17/451712	—	10/21/2021	—	Unpublished	CITRIX SYSTEMS, INC.
COORDINATED MICROSERVICES	17/451709	—	10/21/2021	—	Unpublished	CITRIX SYSTEMS, INC.
PLATFORM FOR RECOMMENDING MEETING PARTICULARS IN AN ONLINE MEETING TOOL	17/451503	—	10/20/2021	—	Unpublished	CITRIX SYSTEMS, INC.
COMPUTER SYSTEM PROVIDING CONTEXT-BASED SOFTWARE AS A SERVICE (SAAS) APPLICATION	17/451359	20220038543	10/19/2021	---	Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0341

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SESSION SWITCHING AND RELATED METHODS						
VIRTUALIZATION ENVIRONMENT PROVIDING USER-BASED SEARCH INDEX ROAMING AND RELATED METHODS	17/448911	2022012292	9/27/2021	---	Pending	CITRIX SYSTEMS, INC.
CONTEXTUAL SCROLLING	17/449034	—	9/27/2021	—	Unpublished	CITRIX SYSTEMS, INC.
CROSS DEVICE SINGLE SIGN-ON	17/448558	20220006803	9/23/2021	---	Pending	CITRIX SYSTEMS, INC.
CONNECTION LEASING WITH MULTI-FACTOR AUTHENTICATION IN OFFLINE AND CLOUD OUTAGE CONDITIONS	17/448536	—	9/23/2021	—	Unpublished	CITRIX SYSTEMS, INC.
COMPUTING DEVICE AND ASSOCIATED METHODS PROVIDING BROWSER LAUNCHING OF VIRTUAL SESSIONS IN AN APPLICATION	17/448531	—20220261260	9/23/2021	—	Pending	CITRIX SYSTEMS, INC.
ENTERPRISED-ORIENTED CONTACT RECOMMENDATIONS	17/448383	—	9/22/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR REMOTE COMPUTING SESSION DISPLAY BASED UPON USER INPUT EVENT PRIORITIZATION	17/448432	20220006749	9/22/2021	---	Pending	CITRIX SYSTEMS, INC.
COMPUTER SYSTEM PROVIDING MIRRORED SAAS APPLICATION SESSIONS AND RELATED METHODS	17/448369	20220006710	9/22/2021	---	Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0342

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
COMPUTING DEVICE AND RELATED METHODS PROVIDING VIRTUAL SESSION ACCESS USING GROUP CONNECTION LEASES AND USER INTERFACE (UI) CACHES	17/448219	20220174117	9/21/2022	---	Pending	CITRIX SYSTEMS, INC.
MULTI-HOP CONNECTION LEASING	17/448218	—	9/21/2021	—	Unpublished	CITRIX SYSTEMS, INC.
HOST TO CLIENT DRAG AND DROP OPERATIONS	17/448084	11449213	9/20/2021	9/20/2022	Granted	CITRIX SYSTEMS, INC.
CANCELLABLE WEB-BASED AUTHENTICATION UI WITH BROWSER EXTENSION AS A WATCHDOG	17/447838	—	9/16/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SMART CARD AND ASSOCIATED METHODS FOR INITIATING VIRTUAL SESSIONS AT KIOSK DEVICE	17/447713	20220173890	9/15/2021	---	Pending	CITRIX SYSTEMS, INC.
SYSTEM AND METHODS FOR PROVISIONING DIFFERENT VERSIONS OF A VIRTUAL APPLICATION	17/446840	20210397472	9/3/2021	---	Pending	CITRIX SYSTEMS, INC.
FRAMEWORK FOR UI AUTOMATION BASED ON GRAPH RECOGNITION TECHNOLOGY AND RELATED METHODS	17/445512	20220027259	8/20/2021	---	Pending	CITRIX SYSTEMS, INC.
COMPUTER SYSTEM AND METHODS PROVIDING VIRTUAL COMPUTING SESSION CONNECTIONS AND RE-DIRECTS BASED UPON ORDERED	17/445409	20210385280	8/19/2021	---	Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0343

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
LIST OF VIRTUAL DELIVERY AGENTS						
CLOUD SERVICE FOR VALIDATING CERTIFICATES	17/443201	—	7/22/2021	—	Unpublished	CITRIX SYSTEMS, INC.
HISTORY PREVIEW AND SHORTCUT TO RESTORE WORK SCENE FOR APPS HOSTED IN THE CITRIX WORKSPACE	17/443028	—	7/20/2021	—	Unpublished	CITRIX SYSTEMS, INC.
APPLICATION PUBLISHING IN A VIRTUAL ENVIRONMENT	17/413351	20220043662	6/11/2021	---	Pending	CITRIX SYSTEMS, INC.
IDENTITY MANAGEMENT CONNECTING PRINCIPAL IDENTITIES TO ALIAS IDENTITIES HAVING AUTHORIZATION SCOPES	17/410013	20210385222	8/24/2021	---	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING USER GUIDANCE VIA A WORKSPACE SCORE	17/408200	—	8/20/2021	—	Unpublished	CITRIX SYSTEMS, INC.
CONSISTENT DISTRIBUTION USING JUMP TABLE ASSISTED HYBRID HASH	17/407861	—	8/20/2021	—	Unpublished	CITRIX SYSTEMS, INC.
FILE CONTAINERIZATION AND MANAGEMENT	17/406394	20210385267	8/19/2021	---	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR APPLICATION HEALTH BASED NETWORK TRAFFIC ROUTING IN A	17/405655	—	8/18/2021	—	Unpublished	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0344

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
GEOGRAPHICALLY DISTRIBUTED CLOUD SERVICE						
SYSTEMS AND METHODS FOR END USER CONNECTION LOAD BALANCING	17/404093	—	8/17/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR RESPONSIBLE INTERMEDIATION OF PRIVACY POLICIES	17/403558	20210377315	8/16/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PRESENTING ADDITIONAL CONTENT FOR A NETWORK APPLICATION ACCESSED VIA AN EMBEDDED BROWSER OF A CLIENT APPLICATION	17/403552	20210374197	8/16/2021	—	Pending	CITRIX SYSTEMS, INC.
CROSS PROTOCOL ASSOCIATION FOR INTERNET ADDRESSES FOR METADATA ASSOCIATION SYSTEMS AND METHODS	17/403356	20210377211	8/16/2021	—	Pending	CITRIX SYSTEMS, INC.
PROVIDING RELEVANT INFORMATION DURING ONLINE MEETINGS	17/402971	—	8/16/2021	—	Unpublished	CITRIX SYSTEMS, INC.
TRANSPARENT TCP CONNECTION TUNNELING WITH IP PACKET FILTERING	17/402125	—	8/13/2021	—	Unpublished	CITRIX SYSTEMS, INC.
UPLOADING AND REMOTELY PRESENTING FILES DURING VIRTUAL CONFERENCES.	17/401768	—	8/13/2021	—	Unpublished	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0345

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEM AND METHOD TO OPTIMIZE WORKFLOW	17/400661	20210377177	8/12/2021	—	Pending	CITRIX SYSTEMS, INC.
DETECTION OF SIGNALS IN A VIRTUAL MEETING	17/398626	—	8/10/2021	—	Unpublished	CITRIX SYSTEMS, INC.
PRIME RE-SHUFFLED ASSISTED CARP	17/398162	—	8/10/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR AUTONOMOUS PROGRAM DETECTION	17/398094	—	8/10/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR INTEGRATING HTML BASED APPLICATION WITH EMBEDDED BROWSER	17/397419	20210365572	8/9/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO RETAIN EXISTING CONNECTIONS SO THAT THERE IS NO CONNECTION LOSS WHEN NODES ARE ADDED TO A CLUSTER FOR CAPACITY OR WHEN A NODE IS TAKEN OUT FROM THE CLUSTER FOR MAINTENANCE	17/394719	20210368009	8/5/2021	—	Pending	CITRIX SYSTEMS, INC.
VIRTUAL FILE ORGANIZER	17/394557	20210365418	8/5/2021	—	Pending	CITRIX SYSTEMS, INC.
AUTOMATIC REPAIR OF WEB CONFERENCE SESSION RECORDING	17/393042	—	8/3/2021	—	Unpublished	CITRIX SYSTEMS, INC.
CROSS-DOMAIN BROKERING PROTOCOL CLOUD PROXY	17/392410	11388261	8/3/2021	7/12/2022	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0346

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DETECTING PROCESSES CAUSING DEGRADATION OF MACHINE PERFORMANCE USING HEURISTICS	17/391391	—	8/2/2021	—	Unpublished	CITRIX SYSTEMS, INC.
INTELLIGENT SCHEDULING ASSISTANT	17/387484	—	7/28/2021	—	Unpublished	CITRIX SYSTEMS, INC.
KEYWORD-BASED PRESENTATION OF NOTIFICATIONS	17/386777	—	7/28/2021	—	Unpublished	CITRIX SYSTEMS, INC.
PARALLEL PROCESSING IN CLOUD	17/386753	—	7/28/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR AUTOMATIC DETECTION OF THIRD PARTY PROXY NETWORK TRAFFIC	17/385124	—	7/26/2021	—	Unpublished	CITRIX SYSTEMS, INC.
DYNAMIC VIRTUAL MEETING, ONLINE WEBINAR AND DISTANCE-BASED EDUCATION SYSTEMS AND METHODS	17/384049	—	7/23/2021	—	Unpublished	CITRIX SYSTEMS, INC.
VIRTUAL MEETING CONTROL	17/381331	—	7/21/2021	—	Unpublished	CITRIX SYSTEMS, INC.
INTENTION BASED SEARCH TECHNIQUES	17/380795	—	7/20/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SEMI-AUTOMATED FIELD PLACEMENT FOR ELECTRONIC FORMS	17/380434	—	7/20/2021	—	Pending	CITRIX SYSTEMS, INC.
CLUSTER-AWARE MULTIPATH TRANSMISSION CONTROL	17/380326	—	7/20/2021	—	Unpublished	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
PROTOCOL (MPTCP) SESSION LOAD BALANCING						
ACCESSING INTERNAL NETWORK RESOURCES USING APPLICATION CUSTOM TAB	17/379771	—	7/19/2021	—	Unpublished	CITRIX SYSTEMS, INC.
REMAPPING OF UNIFORM RESOURCE LOCATORS FOR ACCESSING NETWORK APPLICATIONS	17/376512	—	7/15/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO IMPLEMENT MICROAPPS IN DIGITAL WORKSPACES	17/375410	—	7/14/2021	—	Unpublished	CITRIX SYSTEMS, INC.
APPLICATION VIRTUALIZATION SYSTEM	17/375160	—	7/14/2021	—	Unpublished	CITRIX SYSTEMS, INC.
PRIVACY CONTROLS FOR WEB CONFERENCE SESSION	17/374683	—	7/13/2021	—	Unpublished	CITRIX SYSTEMS, INC.
APPLICATION PROGRAMMING INTERFACE (API) AUTHORIZATION	17/374206	—	7/13/2021	—	Unpublished	CITRIX SYSTEMS, INC.
REMOTE ACCESS FOR RESOURCE LINKS SHARED DURING WEB CONFERENCE SESSION	17/373694	—	7/12/2021	—	Unpublished	CITRIX SYSTEMS, INC.
RECONSTRUCTING EXECUTION CALL FLOWS TO DETECT ANOMALIES	17/373107	—	7/12/2021	—	Unpublished	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEM EVENT ANALYSIS AND DATA MANAGEMENT	17/372703	—	7/12/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ROUTING REMOTE APPLICATION DATA	17/372061	—	7/9/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO OPERATE DEVICES WITH DOMAIN NAME SYSTEM (DNS) CACHES	17/370478	20210336921	7/8/2021	—	Pending	CITRIX SYSTEMS, INC.
ZERO FOOTPRINT VPN-LESS ACCESS TO INTERNAL APPLICATIONS USING PER-TENANT DOMAIN NAME SYSTEM AND KEYLESS SECURE SOCKETS LAYER TECHNIQUES	17/370225	—	7/8/2021	—	Unpublished	CITRIX SYSTEMS, INC.
INTELLIGENT STATUS AND ENGAGEMENT SYSTEM	17/369295	—	7/7/2021	—	Unpublished	CITRIX SYSTEMS, INC.
AUTOMATIC IMAGE CAPTURE	17/368429	20210337106	7/6/2021	—	Pending	CITRIX SYSTEMS, INC.
PRIORITY-BASED TRANSPORT CONNECTION CONTROL	17/368426	11418582	7/6/2021	8/16/2022	Granted	CITRIX SYSTEMS, INC.
USER EXPERIENCE ANALYSIS FOR MULTI-CHANNEL REMOTE DESKTOP ENVIRONMENTS	17/368109	—	7/6/2021	—	Unpublished	CITRIX SYSTEMS, INC.
BROWSER SERVER SESSION TRANSFER	17/366220	20210337034	7/2/2021	—	Pending	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR ENFORCING FORCEFUL BROWSING IN DISTRIBUTED SYSTEMS IN REAL TIME	17/365721	—	7/1/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHOD UPDATING ADC CONFIGURATION WITH INTENDED STATE USING DESIRED STATE API	17/365527	20210328862	7/1/2021	—	Pending	CITRIX SYSTEMS, INC.
METHOD TO SET UP AND TEAR DOWN CLOUD ENVIRONMENTS BASED ON A SCHEDULE OBTAINED FROM ONE OR MORE HOSTED CALENDARS	17/365162	20210326170	7/1/2021	—	Pending	CITRIX SYSTEMS, INC.
PREDICTION-BASED RESOURCE PROVISIONING IN A CLOUD ENVIRONMENT	17/365147	—	7/1/2021	—	Unpublished	CITRIX SYSTEMS, INC.
DISTRIBUTED ELECTRONIC SIGNATURE PROCESSING	17/363928	—	6/30/2021	—	Unpublished	CITRIX SYSTEMS, INC.
REDIRECTION OF ATTACHMENTS BASED ON RISK AND CONTEXT	17/363631	—	6/30/2021	—	Unpublished	CITRIX SYSTEMS, INC.
VIDEO CONTENT ADAPTATION	17/363351	—	6/30/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CONFIGURING APPLICATION SOFTWARE	17/363338	—	6/30/2021	—	Unpublished	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
USER-BASED ACCESS TO CONTENT OF FILES	17/361415	—	6/29/2021	—	Unpublished	CITRIX SYSTEMS, INC.
CONTEXT-BASED PRESENTATION OF AVAILABLE MICROAPP ACTIONS	17/359793	—	6/28/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SHORTCUT KEYS FOR VIRTUAL KEYBOARDS	17/359720	—	6/28/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR RECORDING METADATA ABOUT MICROSERVICES FOR REQUESTS TO THE MICROSERVICES	17/358887	11418613	6/25/2021	8/16/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DYNAMIC DETECTION OF VULNERABLE CREDENTIALS	17/358765	—	6/25/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO DETECT AND PREVENT BOTS FROM RANDOM ACCESS BY RANDOMIZED HTTP URLS IN REAL TIME IN DISTRIBUTED SYSTEMS	17/357623	—	6/24/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DYNAMICALLY ENFORCING DIGITAL RIGHTS MANAGEMENT VIA EMBEDDED BROWSER	17/357583	20210397680	6/24/2021	---	Pending	CITRIX SYSTEMS, INC.
PROVIDING ACCESS TO CONTENT WITHIN A COMPUTING ENVIRONMENT	17/355857	20210320925	6/23/2021	—	Pending	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SECURE INFORMATION STORAGE	17/355297	20210319120	6/23/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR AUTONOMOUS PROGRAM DETECTION	17/354983	—	6/22/2021	—	Unpublished	CITRIX SYSTEMS, INC.
ACCESSING RESOURCES IN A REMOTE ACCESS OR CLOUD-BASED NETWORK ENVIRONMENT	17/353152	20210314409	6/21/2021	—	Pending	CITRIX SYSTEMS, INC.
RESOURCE RECOMMENDATION SYSTEM	17/352421	—	6/21/2021	—	Unpublished	CITRIX SYSTEMS, INC.
METHOD FOR SECURING THE RENDEZVOUS CONNECTION IN A CLOUD SERVICE USING ROUTING TOKENS	17/351888	20210314160	6/18/2021	—	Pending	CITRIX SYSTEMS, INC.
SELECTING A VERSION OF AN APPLICATION	17/351715	20210334091	6/18/2021	—	Pending	CITRIX SYSTEMS, INC.
SPLIT KEYBOARD WITH DIFFERENT LANGUAGES AS INPUT	17/349990	—	6/17/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CONTINUOUS AUTHENTICATION	17/348688	20210385226	6/15/2021	—	Pending	CITRIX SYSTEMS, INC.
TRANSPARENT APPLICATION WINDOW	17/346955	—	6/14/2021	—	Unpublished	CITRIX SYSTEMS, INC.
ELECTRONIC RESOURCE ACCESS	17/346437	—	6/14/2021	—	Unpublished	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0352

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
CONTENT RESOLUTION ADJUSTMENT FOR PASSIVE DISPLAY DEVICES	17/346404	11373625	6/14/2021	6/28/2022	Granted	CITRIX SYSTEMS, INC.
INTERPRETATION RISK DETECTION	17/344467	—	6/10/2021	—	Unpublished	CITRIX SYSTEMS, INC.
TRANSFORMING VALIDATED USER INTERFACE LAYOUTS USING INTER-PLATFORM DESIGN MAPPING DATA	17/344160	20210303281	6/10/2021	—	Pending	CITRIX SYSTEMS, INC.
REPLAY A SERVICE GRAPH AT A POINT IN TIME TO TROUBLESHOOT	17/343445	20210295872	6/9/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PUSH NOTIFICATION SERVICE FOR SAAS APPLICATIONS	17/343438	11323528	6/9/2021	5/3/2022	Granted	CITRIX SYSTEMS, INC.
ENABLING MICROAPP ACCESS BASED ON DETERMINED APPLICATION STATES AND USER-INITIATED TRIGGERING EVENTS	17/343115	—	6/9/2021	—	Unpublished	CITRIX SYSTEMS, INC.
PREPARATION OF SIGNATURE FIELDS WITHIN ELECTRONIC DOCUMENTS	17/343110	—	6/9/2021	—	Unpublished	CITRIX SYSTEMS, INC.
DOCUMENT ROLE-BASED SIGNATURE FIELD PLACEMENT	17/343106	—	6/9/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEM AND METHODS FOR PROVIDING USER ANALYTICS AND PERFORMANCE FEEDBACK FOR WEB APPLICATIONS	17/342999	20210297505	6/9/2021	—	Pending	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
MAINTAINING A SESSION ACROSS MULTIPLE WEB APPLICATIONS	17/342716	20210297492	6/9/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEM AND METHODS FOR PREDICTING MICROAPP ADOPTION RATE IN DIGITAL WORKPLACES	17/340565	—	6/7/2021	—	Unpublished	CITRIX SYSTEMS, INC.
IMPROVEMENTS TO NODE SECURITY WITH INTERMEDIATE DEVICES	17/340494	—	6/7/2021	—	Unpublished	CITRIX SYSTEMS, INC.
PREVENTION OF PARTIAL CREDENTIAL INFO LEAK	17/340188	20220207121	6/7/2021	—	Pending	CITRIX SYSTEMS, INC.
INTERACTIVE DISPLAY DEVICES IN EXTENDED REALITY ENVIRONMENTS	17/340170	—	6/7/2021	—	Unpublished	CITRIX SYSTEMS, INC.
DISPLAY SCREEN CASTING TO TARGET DEVICE USING CASTING EXTENSION	17/339419	—	6/4/2021	—	Unpublished	CITRIX SYSTEMS, INC.
DISTANCE BASED SESSION ROAMING	17/337565	20210289361	6/3/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR FILTERING NOTIFICATIONS FOR END POINTS ASSOCIATED WITH A USER	17/336976	11411904	6/2/2021	8/9/2022	Granted	CITRIX SYSTEMS, INC.
IDENTITY LEAK PREVENTION	17/336751	2020070123	6/2/2021	---	Pending	CITRIX SYSTEMS, INC.
SMART SCREEN ROTATION BASED ON FACIAL ANALYSIS	17/335424	—	6/1/2021	—	Unpublished	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
COMPUTER SYSTEM PROVIDING SAAS APPLICATION SESSION STATE MIGRATION FEATURES AND RELATED METHODS	17/335356	20210289036	6/1/2021	—	Pending	CITRIX SYSTEMS, INC.
PROVISIONING DEVICES SECURELY USING ZERO TOUCH DEPLOYMENTS	17/331993	—	5/27/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING CLIENT REQUESTS TO ACCESS SERVICES PROVIDED BY A DATA CENTER	17/331889	20210289046	5/27/2021	—	Pending	CITRIX SYSTEMS, INC.
METHOD TO DETERMINE OPTIMAL NUMBER OF HTTP2.0 STREAMS AND CONNECTIONS FOR BETTER QOE	17/331105	20210281628	5/26/2021	—	Pending	CITRIX SYSTEMS, INC.
DATA TRANSFER ACROSS STORAGE TIERS	17/330774	—	5/26/2021	—	Unpublished	CITRIX SYSTEMS, INC.
RESOURCE AVAILABILITY SYSTEM	17/330773	—	5/26/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SECONDARY MULTIFACTOR AUTHENTICATION	17/329761	—	5/25/2021	—	Unpublished	CITRIX SYSTEMS, INC.
POLICY BASED AUTHENTICATION	17/329580	20220006631	5/25/2021	---	Pending	CITRIX SYSTEMS, INC.
DEVICE INDEPENDENT TEXT SUGGESTION SERVICE FOR AN APPLICATION HOSTING PLATFORM	17/327882	20210279416	5/24/2021	—	Pending	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
ENABLING FILE ATTACHMENTS IN CALENDAR EVENTS	17/324687	20210326513	5/19/2021	—	Pending	CITRIX SYSTEMS, INC.
SORTING OPTIMIZATION BASED ON USER'S TIME PREFERENCES AND HABITS	17/323678	—	5/18/2021	—	Unpublished	CITRIX SYSTEMS, INC.
INTELLIGENT AND DYNAMIC OVERLAY TUNNEL FORMATION VIA AUTOMATIC DISCOVERY OF CITRIVITY/SDWAN PEER IN THE DATAPATH IN A PURE PLUG AND PLAY ENVIRONMENT WITH ZERO NETWORKING CONFIGURATION	17/323569	20210281444	5/18/2021	—	Pending	CITRIX SYSTEMS, INC.
ACCESSING CONFLICTING FRAMEWORKS AND CLASSES	17/323559	20210271492	5/18/2021	—	Pending	CITRIX SYSTEMS, INC.
METHOD TO SAVE COMPUTATIONAL RESOURCES BY DETECTING ENCRYPTED PAYLOAD	17/322501	20210273927	5/17/2021	—	Pending	CITRIX SYSTEMS, INC.
CLASSIFICATION SCHEME FOR DETECTING ILLEGITIMATE ACCOUNT CREATION	17/321847	—	5/17/2021	—	Unpublished	CITRIX SYSTEMS, INC.
METHOD FOR SECONDARY AUTHENTICATION	17/320506	—	5/14/2021	—	Unpublished	CITRIX SYSTEMS, INC.
REMOTE COMPONENT LOADER	17/320492	20210271493	5/14/2021	—	Pending	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS OF ENABLING FAST USER ACCESS TO REMOTE DESKTOPS	17/319610	20210266314	5/13/2021	—	Pending	CITRIX SYSTEMS, INC.
CLIENT-SERVER SESSION BASED ANOMALOUS BEHAVIOR DETECTION	17/319326	—	5/13/2021	—	Unpublished	CITRIX SYSTEMS, INC.
DEVICE GESTURE RECOGNITION SYSTEM TO CONTROL PRIVACY MODE	17/318013	11409370	5/12/2021	8/9/2022	Granted	CITRIX SYSTEMS, INC.
DYNAMICALLY SELECTING FIREWALL SIGNATURES USING NETWORK TRAFFIC	17/317538	—	5/11/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR VIRTUAL SESSION CONNECTION USING COMPONENT-BASED CONNECTION LEASES	17/316821	20210266271	5/11/2021	—	Pending	CITRIX SYSTEMS, INC.
WEB CLIENT WITH RESPONSE LATENCY AWARENESS	17/316227	20220086215	5/10/2021	---	Pending	CITRIX SYSTEMS, INC.
VERTICAL AUTO-SCALING OF A NETWORKING STACK	17/315799	—	5/10/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR FULLY AUTONOMOUS USER BEHAVIOR BASED SECURITY TESTING	17/315644	—	5/10/2021	—	Unpublished	CITRIX SYSTEMS, INC.
AUTOMATED KEYBOARD MAPPING FOR VIRTUAL DESKTOPS	17/315642	20210263596	5/10/2021	—	Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0357

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
COMPRESSION TECHNIQUES FOR SHARED FILES	17/314841	—	5/7/2021	—	Unpublished	CITRIX SYSTEMS, INC.
HEURISTIC POLICY RECOMMENDATIONS IN A VIRTUAL ENVIRONMENT	17/314472	—	5/7/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SHARING OF DATA WITH APPLICATIONS	17/308620	11392552	5/5/2021	7/19/2022	Granted	CITRIX SYSTEMS, INC.
AUTOMATICALLY GENERATING FIREWALL CONFIGURATION PROFILES USING LEARNING MODE	17/307713	—	5/4/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEM AND APPARATUS FOR ENHANCED QOS, STEERING AND POLICY ENFORCEMENT FOR HTTPS TRAFFIC VIA INTELLIGENT INLINE PATH DISCOVERY OF TLS TERMINATING NODE	17/307634	20210281551	5/4/2021	—	Pending	CITRIX SYSTEMS, INC.
NETWORK ARCHITECTURE FOR VIRTUAL MOBILE PHONES	17/306578	—	5/3/2021	—	Unpublished	CITRIX SYSTEMS, INC.
CONTEXTUAL TAB AWARE APP PROTECTION	17/304660	—	6/24/2021	—	Unpublished	CITRIX SYSTEMS, INC.
UNIFIED INTELLIGENT EDITOR TO CONSOLIDATE ACTIONS IN A WORKSPACE	17/304563	20220137990	6/23/2021	—	Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0358

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
AN AUTO-FOLLOW AND BEST-FIT SCREEN SHARING METHOD FOR MOBILE DEVICE	17/304481	—	6/22/2021	—	Unpublished	CITRIX SYSTEMS, INC.
DETERMINATION OF HARDWARE RESOURCE UTILIZATION	17/246217	—	4/30/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SECURE IN-BAND SERVICE DETECTION	17/245857	20210329078	4/30/2021	—	Pending	CITRIX SYSTEMS, INC.
INTELLIGENT COLLECTION OF MEETING BACKGROUND INFORMATION	17/245546	—	4/30/2021	—	Unpublished	CITRIX SYSTEMS, INC.
FILE TRANSFER CONTROL SYSTEMS AND METHODS	17/245152	11290522	4/30/2021	3/29/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO IMPROVE HOSTED APPLICATION PERFORMANCE	17/243110	—	4/28/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR INTELLISENSE FOR SAAS APPLICATION	17/241560	20210247879	4/27/2021	—	Pending	CITRIX SYSTEMS, INC.
BLOCKING ROUTINE REDIRECTION	17/240418	20210319097	4/26/2021	—	Pending	CITRIX SYSTEMS, INC.
PASSING LOCAL CREDENTIALS TO A VIRTUAL BROWSER	17/239811	—	4/26/2021	—	Unpublished	CITRIX SYSTEMS, INC.
PROVIDING CONTENT WHILE LOADING	17/239748	—	4/26/2021	—	Unpublished	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0359

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
COMPUTING SYSTEM PROVIDING METADATA MODIFICATION POLICY ENFORCEMENT AND RELATED METHODS	17/238410	20210303730	4/23/2021	—	Pending	CITRIX SYSTEMS, INC.
APPLICATION PROGRAMMING INTERFACE (API) CALL SECURITY	17/238340	—	4/23/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SECURELY MANAGING BROWSER PLUGINS VIA EMBEDDED BROWSER	17/237320	20210243196	4/22/2021	—	Pending	CITRIX SYSTEMS, INC.
A MECHANISM TO CREATE A FOCUSED MODE OF WORKSPACE BASED ON CURRENT CONTEXT	17/237159	—	4/22/2021	—	Unpublished	CITRIX SYSTEMS, INC.
DETECTING ATTACKS USING HANDSHAKE REQUESTS SYSTEMS AND METHODS	17/236233	20210243227	4/21/2021	—	Pending	CITRIX SYSTEMS, INC.
RECIPIENT DETERMINATION BASED ON FILE CONTENT	17/236122	—	4/21/2021	—	Unpublished	CITRIX SYSTEMS, INC.
FORM TEMPLATE MATCHING TO POPULATE FORMS DISPLAYED BY CLIENT DEVICES	17/236075	20210240920	4/21/2021	—	Pending	CITRIX SYSTEMS, INC.
LOCATION/THINGS AWARE CLOUD SERVICES DELIVERY SOLUTION	17/234941	20210314773	4/20/2021	—	Pending	CITRIX SYSTEMS, INC.
SECURE OFFLINE STREAMING OF CONTENT	17/233814	20210240846	4/19/2021	—	Pending	CITRIX SYSTEMS, INC.

PATENT
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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
MIGRATION OF CLOUD-BASED SOFTWARE APPLICATION	17/233181	—	4/16/2021	—	Unpublished	CITRIX SYSTEMS, INC.
PASSWORDLESS LOGIN WITH QR CODE AND SMARTPHONE	17/232550	—	4/16/2021	—	Unpublished	CITRIX SYSTEMS, INC.
MANAGING PERFORMANCE OF ELEMENTS PROVIDING A SESSION VIA A MULTI-HOP NETWORK TOPOLOGY	17/232494	—	4/16/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR LIVE SAAS OBJECTS	17/231823	20210234903	4/15/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PHISHING ATTACK PROTECTION BASED ON IDENTITY PROVIDER VERIFICATION	17/231618	—	4/15/2021	—	Unpublished	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR SHARING USER CONFIGURATION DATA BETWEEN DIFFERENT COMPUTING SESSIONS	17/231599	20210234810	4/15/2021	—	Pending	CITRIX SYSTEMS, INC.
WORKFLOW NOTIFICATION SYSTEM	17/231331	—	4/15/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SERVER FOR DETECTING A PROXY DEVICE IN A COMMUNICATIONS PATH AND RELATED METHODS	17/230442	20210234838	4/14/2021	—	Pending	CITRIX SYSTEMS, INC.
SESSIONLESS VALIDATION OF CLIENT CONNECTIONS WHILE	17/230334	—	4/14/2021	—	Unpublished	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0361

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
MITIGATING COOKIE HIJACK ATTACKS						
EXECUTION OF A SINGLE GRAPHQL QUERY ON MULTIPLE DATABASES	17/230255	—	4/15/2021	—	Unpublished	CITRIX SYSTEMS, INC.
PRIVACY PROTECTION FOR PROXY AUTO-CONFIGURATION FILES	17/229843	20210234924	4/13/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING LOAD BALANCING AS A SERVICE	17/228997	20210234920	4/13/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DETECTING AND PREVENTING AUTOMATIC FORM SUBMISSIONS FROM BOTS IN DISTRIBUTED SYSTEMS IN REAL TIME	17/226337	—	4/9/2021	—	Unpublished	CITRIX SYSTEMS, INC.
CONNECTOR LEASING FOR LONG-RUNNING SOFTWARE OPERATIONS	17/224868	20210256600	4/7/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR USING A SCRIPTING LANGUAGE TO DYNAMICALLY STYLE A CASCADING STYLE SHEET	17/223569	20210224467	4/6/2021	—	Pending	CITRIX SYSTEMS, INC.
REFLECTION RENDERING IN COMPUTER GENERATED ENVIRONMENTS	17/222027	20210358203	4/5/2021	—	Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0362

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
PRELOADING OF APPLICATION ON A USER DEVICE BASED ON CONTENT RECEIVED BY THE USER DEVICE	17/221289	20210224085	4/2/2021	—	Pending	CITRIX SYSTEMS, INC.
OFFICE SAFETY CONTROL SYSTEM	17/220631	—	4/1/2021	—	Unpublished	CITRIX SYSTEMS, INC.
METHOD FOR ENCRYPTING DATA STREAMS WITH NEGOTIABLE AND ADAPTABLE ENCRYPTION LEVELS	17/220618	20210227268	4/1/2021	—	Pending	CITRIX SYSTEMS, INC.
DYNAMIC CRYPTO KEY MANAGEMENT FOR MOBILITY IN A CLOUD ENVIRONMENT	17/219972	20210218722	4/1/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR USING A CALL CHAIN TO IDENTIFY DEPENDENCIES AMONG A PLURALITY OF MICROSERVICES	17/217021	20210216291	3/30/2021	—	Pending	CITRIX SYSTEMS, INC.
DATA MANAGEMENT FOR AN APPLICATION WITH MULTIPLE OPERATION MODES	17/215892	20210218797	3/29/2021	—	Pending	CITRIX SYSTEMS, INC.
WEB ELEMENTS-BASED VIRTUAL ASSISTANT FOR DISTRIBUTED APPLICATIONS	17/215613	—	3/29/2021	—	Unpublished	CITRIX SYSTEMS, INC.
DEPLOYMENT ROUTING OF CLIENTS BY ANALYTICS	17/215426	20210216303	3/29/2021	—	Pending	CITRIX SYSTEMS, INC.
ACTIVITY-BASED RESOURCE ALLOCATION AMONG VIRTUAL-COMPUTING SESSIONS	17/215358	20210218632	3/29/2021	—	Pending	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
TRIGGERING EVENT NOTIFICATIONS BASED ON MESSAGES TO APPLICATION USERS	17/215113	11336606	3/29/2021	5/17/2022	Granted	CITRIX SYSTEMS, INC.
WEB UI AUTOMATION MAINTENANCE TOOL	17/215098	20210216302	3/29/2021	—	Pending	CITRIX SYSTEMS, INC.
TRANSFERRING DATA BETWEEN COMPUTING SYSTEMS	17/213578	—	3/26/2021	—	Unpublished	CITRIX SYSTEMS, INC.
INFERRING CONGESTION AND SIGNAL QUALITY	17/210065	20210306223	3/23/2021	—	Pending	CITRIX SYSTEMS, INC.
FILE REDUNDANCY DETECTION AND MITIGATION	17/209582	20210209064	3/23/2021	—	Pending	CITRIX SYSTEMS, INC.
VIRTUALIZING DEVICE MANAGEMENT SERVICES ON A MULTI-SESSION PLATFORM	17/209580	20210211505	3/23/2021	—	Pending	CITRIX SYSTEMS, INC.
SERVER DRIVEN FACETED SEARCH NAVIGATION	17/207940	—	3/22/2021	—	Unpublished	CITRIX SYSTEMS, INC.
ASSESSING RISK FROM USE OF VARIANTS OF CREDENTIALS	17/206396	—	3/19/2021	—	Unpublished	CITRIX SYSTEMS, INC.
SHORT MESSAGE SERVICE LINK FOR ACTIVITY FEED COMMUNICATIONS	17/206222	20210297821	3/19/2021	—	Pending	CITRIX SYSTEMS, INC.
RESOURCE ACCESS WITH USE OF BLOOM FILTERS	17/205241	—	3/18/2021	—	Unpublished	CITRIX SYSTEMS, INC.

PATENT
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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR RENDERING WEBLINKS INSIDE A REMOTE APPLICATION USING AN EMBEDDED BROWSER	17/204614	20210200831	3/17/2021	—	Pending	CITRIX SYSTEMS, INC.
VIRTUAL MACHINE MIGRATION USING MULTIPLE, SYNCHRONIZED STREAMS OF STATE DATA	17/204099	20210224100	3/17/2021	—	Pending	CITRIX SYSTEMS, INC.
SUBSCRIBER IDENTITY MANAGEMENT	17/203161	20210203652	3/16/2021	—	Pending	CITRIX SYSTEMS, INC.
COMPUTER SYSTEM PROVIDING VIRTUAL COMPUTING SESSION LICENSE DISTRIBUTION FEATURES AND RELATED METHODS	17/200006	20210200838	3/12/2021	—	Pending	CITRIX SYSTEMS, INC.
DEVICE AUGMENTATION OF REAL TIME COMMUNICATIONS	17/199639	11227025	3/12/2021	1/18/2022	Granted	CITRIX SYSTEMS, INC.
LOCAL MAPPED ACCOUNTS IN VIRTUAL DESKTOPS	17/199523	20210203654	3/12/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR IDENTIFYING A CONTEXT OF AN ENDPOINT ACCESSING A PLURALITY OF MICROSERVICES	17/199126	20210204091	3/11/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SCREENSHOT MEDIATION BASED ON POLICY	17/192572	20210192062	3/4/2021	—	Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0365

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
CONTENT CAPTURE DURING VIRTUAL MEETING DISCONNECT	17/190820	—	3/3/2021	—	Unpublished	CITRIX SYSTEMS, INC.
MANAGING VIRTUAL APPLICATION PERFORMANCE IN A VIRTUAL COMPUTING ENVIRONMENT	17/189675	—	3/2/2021	—	Unpublished	CITRIX SYSTEMS, INC.
MULTIMODAL MODELLING FOR SYSTEMS USING DISTANCE METRIC LEARNING	17/188601	20220201008	3/1/2021	—	Pending	CITRIX SYSTEMS, INC.
USER CONTROLLED CUSTOMIZATION OF ACTIVITY FEED PRESENTATION	17/188307	—	3/1/2021	—	Unpublished	CITRIX SYSTEMS, INC.
ACTIVE LEARNING VIA A SURROGATE MACHINE LEARNING MODEL USING KNOWLEDGE DISTILLATION	17/188167	20220230095	3/1/2021	—	Pending	CITRIX SYSTEMS, INC.
ENHANCE A MAIL APPLICATION TO FORMAT A LONG EMAIL CONVERSATION FOR EASY CONSUMPTION	17/184969	20210182322	2/25/2021	—	Pending	CITRIX SYSTEMS, INC.
VALIDATING SESSION TOKENS USING NETWORK PROPERTIES	17/183882	20220224684	2/24/2021	—	Pending	CITRIX SYSTEMS, INC.
TRACKING IMAGE SENDERS ON CLIENT DEVICES	17/182575	20210183000	2/23/2021	—	Pending	CITRIX SYSTEMS, INC.
PREDICTIVE MICROSERVICE SYSTEMS AND METHODS	17/182541	11281511	2/23/2021	3/22/2022	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
AUTOMATICALLY REPLICATE API CALLS TO SEPARATE DATA CENTERS	17/182501	20210182124	2/23/2021	—	Pending	CITRIX SYSTEMS, INC.
APPLICATION DISPLAY ON ENDPOINT DEVICE	17/181811	20220197669	2/22/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR UNLOCKING A MOBILE DEVICE	17/180108	20210203770	2/19/2021	—	Pending	CITRIX SYSTEMS, INC.
REMOTE DESKTOP MONITORING USING A WEBCAM	17/179558	20210176243	2/19/2021	—	Pending	CITRIX SYSTEMS, INC.
USING SERVICE GRAPHS TO COMPARE PERFORMANCE OF A PLURALITY OF VERSIONS OF A MICROSERVICE	17/176032	11310133	2/15/2021	4/19/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR APPLICATION SCRIPTS FOR CROSS-DOMAIN APPLICATIONS	17/176031	20210168060	2/15/2021	—	Pending	CITRIX SYSTEMS, INC.
FAST SMART CARD LOGIN	17/176011	20210168136	2/15/2021	—	Pending	CITRIX SYSTEMS, INC.
RENDERING CONTENT OF SERVICE PROVIDERS VIA WEB PAGE HAVING DYNAMICALLY-LOADED PLUGINS	17/173492	20210165667	2/11/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD TO CORRELATE END USER EXPERIENCE WITH LOCATION.	17/172454	11411839	2/10/2021	8/9/2022	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
MANAGEMENT OF REMOTE ACCESS USER APPLICATION LAYOUTS	17/171605	20210165948	2/9/2021	—	Pending	CITRIX SYSTEMS, INC.
LOCAL MODEL PROCESSING AND REMOTE VERIFICATION	17/171243	20220222326	2/9/2021	—	Pending	CITRIX SYSTEMS, INC.
INTELLIGENT PATH SELECTION SYSTEMS AND METHODS TO REDUCE LATENCY	17/170271	20220255839	2/8/2021	—	Pending	CITRIX SYSTEMS, INC.
CONFIGURATION OF HEADLESS NETWORK APPLIANCES	17/170175	20220239473	2/8/2021	—	Pending	CITRIX SYSTEMS, INC.
SECURE COLLABORATION MESSAGING	17/170146	20220197979	2/8/2021	—	Pending	CITRIX SYSTEMS, INC.
SECURE SESSION RESUME	17/170136	20220210230	2/8/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO DETERMINE ROOT CAUSE OF CONNECTION FAILURES	17/164146	20220182278	2/1/2021	---	Pending	CITRIX SYSTEMS, INC.
MULTI-TENANT MODEL EVALUATION	17/163991	20220230094	2/1/2021	—	Pending	CITRIX SYSTEMS, INC.
TRUSTED FILE INDIRECTION	17/161936	20210182239	1/29/2021	—	Pending	CITRIX SYSTEMS, INC.
APPLICATION WRAPPING FOR APPLICATION MANAGEMENT FRAMEWORK	17/161292	20210271472	1/28/2021	—	Pending	CITRIX SYSTEMS, INC.
CROSS-LANGUAGE SEARCH	17/160580	20220197905	1/28/2021	—	Pending	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
POLICY BASED PERSISTENCE	17/160567	20210150075	1/28/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PERFORMING RESPONSE BASED CACHE REDIRECTION	17/159789	20210152654	1/27/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEM AND METHODS TO FILTER OUT NOISY APPLICATION SIGNATURES TO IMPROVE PRECISION OF FIRST PACKET CLASSIFICATION	17/157640	20210152481	1/25/2021	—	Pending	CITRIX SYSTEMS, INC.
WEBRTC API REDIRECTION WITH SCREEN SHARING	17/156783	20210152630	1/25/2021	—	Pending	CITRIX SYSTEMS, INC.
DATA OBJECT DELIVERY FOR DISTRIBUTED CLUSTER COMPUTING	17/155694	20220191277	1/22/2021	---	Allowed	CITRIX SYSTEMS, INC.
APPLICATION CUSTOMIZATION	17/155678	20210144213	1/22/2021	—	Pending	CITRIX SYSTEMS, INC.
CONTEXTUAL NOTES FOR ONLINE MEETINGS	17/155404	20220206673	1/22/2021	—	Pending	CITRIX SYSTEMS, INC.
SMART DIRECTORY SEARCH	17/155302	20220237250	1/22/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR DISPLAYING CUSTOMIZED USER GUIDES IN A VIRTUAL CLIENT APPLICATION	17/150158	20210132965	1/15/2021	—	Pending	CITRIX SYSTEMS, INC.
VIRTUAL WORKSPACE EXPERIENCE VISUALIZATION AND OPTIMIZATION	17/149047	11303729	1/14/2021	4/12/2022	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0369

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
PROVIDING FILES OF VARIABLE SIZES BASED ON DEVICE AND NETWORK CONDITIONS	17/148105	20210136428	1/13/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR HANDLING OF NOTIFICATIONS AND GENERATING FEEDBACK	17/147791	20220182454	1/13/2021	---	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO IMPROVE APPLICATION PERFORMANCE	17/147140	20220222097	1/12/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SAAS OVERLAYS USING EMBEDDED BROWSER	17/145622	20210208751	1/11/2021	—	Pending	CITRIX SYSTEMS, INC.
SECURELY SHARING FILES WITH USER DEVICES BASED ON LOCATION	17/144862	20210133342	1/8/2021	—	Pending	CITRIX SYSTEMS, INC.
APPLICATION SECURITY THREAT AWARENESS	17/142743	20220217174	1/6/2021	—	Pending	CITRIX SYSTEMS, INC.
DYNAMIC SCHEDULING OF WEB API CALLS	17/141633	20220217153	1/5/2021	—	Pending	CITRIX SYSTEMS, INC.
VALIDATING SHARED FILES	17/141602	20220217001	1/5/2021	—	Pending	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR CONTROLLING INTERNET OF THINGS DEVICES USING NAMESPACES	17/141299	20210152641	1/5/2021	—	Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0370

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
INTELLIGENT SHORT TEXT INFORMATION RETRIEVE BASED ON DEEP LEARNING	17/138232	20210118431	12/30/2020	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DETECTION OF DEGRADATION OF A VIRTUAL DESKTOP ENVIRONMENT	17/138162	20220156154	12/30/2022	---	Allowed	CITRIX SYSTEMS, INC.
UNIFORM RESOURCE LOCATOR VALIDATION	17/138030	20220210146	12/30/2020	—	Pending	CITRIX SYSTEMS, INC.
DYNAMICALLY PROVISIONING VIRTUAL MACHINES FROM REMOTE, MULTI-TIER POOL	17/137845	20210117245	12/30/2020	—	Pending	CITRIX SYSTEMS, INC.
CLOUD RESOURCE TAGGING AND INVENTORY	17/137315	—	12/29/2020	—	Unpublished	CITRIX SYSTEMS, INC.
GENERATION OF CLOUD SERVICE INVENTORY	17/137292	—	12/29/2020	—	Unpublished	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SECURING USER DEVICES	17/136705	20220207162	12/29/2020	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROTECTION AGAINST THEFT OF USER CREDENTIALS	17/136518	20220210187	12/29/2020	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROTECTION AGAINST THEFT OF USER CREDENTIALS BY EMAIL PHISHING ATTACKS	17/135456	20220210186	12/28/2020	—	Pending	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR CONFIGURING A DEVICE VIA A SOFTWARE-DEFINED NETWORKING CONTROLLER	17/135391	20210119864	12/28/2020	—	Pending	CITRIX SYSTEMS, INC.
GENERATION OF AN ELECTRONIC DOCUMENT CAPABLE OF RECEIVING USER INPUT	17/134841	20220210280	12/28/2020	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR APPLICATION ACCESS	17/132741	20220083517	12/23/2020	---	Pending	CITRIX SYSTEMS, INC.
MULTI-CLOUD DEPLOYMENT AND VALIDATION	17/127975	20220200929	12/18/2020	—	Pending	CITRIX SYSTEMS, INC.
REMOTE DESKTOP PROTOCOL PROXY WITH SINGLE SIGN-ON AND ENFORCEMENT SUPPORT	17/127393	20210136055	12/18/2020	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PERFORMING URL CLOSURE CHECK IN DISTRIBUTED SYSTEMS	17/126867	20220198007	12/18/2020	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO PREVENT PRIVATE DATA MISUSE BY INSIDER	17/125266	20220200977	12/17/2020	—	Pending	CITRIX SYSTEMS, INC.
HIGH-AVAILABILITY FOR POWER-MANAGED VIRTUAL DESKTOP ACCESS	17/125251	11385973	12/17/2020	6/23/2022	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEM AND METHOD FOR PREVENTION OF TRANSFER OF SENSITIVE INFORMATION	17/123262	20220188413	12/16/2020	---	Pending	CITRIX SYSTEMS, INC.
MESSAGE-BASED PRESENTATION OF MICROAPP USER INTERFACE CONTROLS	17/122164	20220191160	12/15/2020	---	Pending	CITRIX SYSTEMS, INC.
MITIGATING INSECURE DIGITAL STORAGE OF SENSITIVE INFORMATION	17/121847	20220188450	12/15/2020	---	Pending	CITRIX SYSTEMS, INC.
NATIVE APPLICATION INTEGRATION FOR ENHANCED REMOTE DESKTOP EXPERIENCES	17/120543	20220191288	12/14/2020	---	Pending	CITRIX SYSTEMS, INC.
DOCUMENT GENERATION FROM APPLICATIONS	17/120412	20220188504	12/14/2020	---	Pending	CITRIX SYSTEMS, INC.
IN-BAND VOICE-ASSISTANT/CONCIERGE FOR CONTROLLING ONLINE MEETINGS	17/117290	20210090568	12/10/2020	—	Pending	CITRIX SYSTEMS, INC.
CROSS-ENDPOINT ENTERPRISE APPLICATION AUTHORIZATION AND MANAGEMENT	17/116804	20220182385	12/9/2020	—	Pending	CITRIX SYSTEMS, INC.
DEVICE IDENTIFIER TRANSLATION SYSTEMS AND METHODS	17/115176	20220179662	12/8/2020	---	Allowed	CITRIX SYSTEMS, INC.
APPLICATION INTEGRATION USING MULTIPLE USER IDENTITIES	17/113874	20210377252	12/7/2020	—	Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0373

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR MANAGING DOWNLOADS FROM AN EMBEDDED BROWSER	17/113720	11388258	12/7/2020	7/12/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MAINTAINING AND TRANSFERRING SAAS SESSION STATE	17/110932	20210092192	12/3/2020	—	Pending	CITRIX SYSTEMS, INC.
COMPUTER SYSTEM PROVIDING VIRTUAL COMPUTING SESSIONS THROUGH VIRTUAL DELIVERY AGENT LEASING WITH ENHANCED POWER SAVINGS AND CONNECTIVITY AND RELATED METHODS	17/110503	20210117222	12/3/2020	—	Pending	CITRIX SYSTEMS, INC.
SYSTEM FOR EARLY SYSTEM RESOURCE CONSTRAINT DETECTION AND RECOVERY	17/109904	20210092070	12/2/2020	—	Pending	CITRIX SYSTEMS, INC.
BANDWIDTH EFFICIENT STREAMING AND SYCHING MULTIMEDIA CONTENT AT A DESIRED QUALITY OF EXPERIENCE	17/102565	11323499	11/24/2020	5/3/2022	Granted	CITRIX SYSTEMS, INC.
JAVA NATIVE INTERFACE AND WINDOWS UNIVERSAL APP HOOKING	17/101637	11354144	11/23/2020	6/7/2022	Granted	CITRIX SYSTEMS, INC.
REVERSE SEAMLESS INTEGRATION BETWEEN LOCAL AND REMOTE COMPUTING ENVIRONMENTS	17/101223	20210152626	11/23/2020	—	Pending	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
CLOUD SERVICE AUTOMATION OF COMMON IMAGE MANAGEMENT	17/099992	20210072974	11/17/2020	—	Pending	CITRIX SYSTEMS, INC.
WEBRTC API REDIRECTION WITH FALLBACKS	17/099924	20210075852	11/17/2020	—	Pending	CITRIX SYSTEMS, INC.
CONTENT REDIRECTION VIA REMOTE SESSION	17/099204	20210072868	11/16/2020	—	Pending	CITRIX SYSTEMS, INC.
GEO-BASED CONNECTIVITY AWARENESS FOR BETTER PRODUCTIVITY	17/098566	20210067909	11/16/2020	—	Pending	CITRIX SYSTEMS, INC.
PREVENTING HTTP COOKIE STEALING USING COOKIE MORPHING	17/097255	20220158831	11/13/2020	---	Pending	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR AN INTELLIGENT WORKSPACE MANAGEMENT	17/092488	20210056507	11/9/2020	—	Pending	CITRIX SYSTEMS, INC.
STATE-SHARING PLUG-IN CITRIX WORKSPACE ENVIRONMENT	17/091678	11451500	11/6/2020	9/20/2022	Granted	CITRIX SYSTEMS, INC.
USER EXPERIENCE ORIENTED PATH SELECTION	17/091311	20210058319	11/6/2020	—	Pending	CITRIX SYSTEMS, INC.
PLATFORM UPDATE USING SELF-INSTALLING CONTAINERIZED MICROSERVICE	17/088708	20220137997	11/4/2020	---	Pending	CITRIX SYSTEMS, INC.
RESOURCE LINK ENGINE	17/087304	20220121722	11/2/2020	---	Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0375

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
CLOUD TO ON-PREMISES WINDOWS REGISTRY SETTINGS	17/085743	11403116	10/30/2020	8/2/2022	Granted	CITRIX SYSTEMS, INC.
CONTEXTUAL TURNING OF DIALOG FROM ANY APP INTO ACTIONABLE WORKSPACE NOTIFICATION	17/084996	20220141169	10/30/2020	---	Pending	CITRIX SYSTEMS, INC.
QUALITY OF EXPERIENCE BASED NETWORK ANALYSIS	17/083509	11296991	10/29/2020	4/5/2022	Granted	CITRIX SYSTEMS, INC.
FILE TRANSFER SYSTEMS AND METHODS	17/083416	20220083509	10/29/2020	---	Pending	CITRIX SYSTEMS, INC.
CONNECTING CLIENT DEVICES TO ANONYMOUS SESSIONS VIA HELPERS	17/081406	20210092101	10/27/2020	—	Pending	CITRIX SYSTEMS, INC.
DATA MIGRATION FOR A SHARED DATABASE	17/079717	20210042196	10/26/2020	—	Pending	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR UPDATING A DATABASE BASED ON OBJECT RECOGNITION	17/076977	20210056299	10/22/2020	—	Pending	CITRIX SYSTEMS, INC.
COMPUTING SYSTEM PROVIDING DIRECT ROUTING FOR DESKTOP AS A SERVICE (DAAS) SESSIONS TO A PRIVATE NETWORK AND RELATED METHODS	17/076321	20210058470	10/21/2020	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CONSISTENT ENFORCEMENT POLICY ACROSS DIFFERENT SAAS	17/076254	20210037101	10/21/2020	—	Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0376

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
APPLICATIONS VIA EMBEDDED BROWSER						
COMPUTING SYSTEM WITH AN EMAIL PRIVACY FILTER AND RELATED METHODS	17/075837	11277366	10/21/2020	3/15/2022	Granted	CITRIX SYSTEMS, INC.
CONTINUOUS UPTIME OF GUEST VIRTUAL MACHINES DURING UPGRADE OF A VIRTUALIZATION HOST DEVICE	17/075249	20210117221	10/20/2020	—	Pending	CITRIX SYSTEMS, INC.
CONTENT CACHING	17/075228	11449420	10/20/2020	9/20/2022	Granted	CITRIX SYSTEMS, INC.
UBIQUITOUS COLLABORATION IN MANAGED APPLICATIONS	17/073868	20210092012	10/19/2020	—	Pending	CITRIX SYSTEMS, INC.
USE OF IDENTITY DATA ASSOCIATED WITH A DEVICE FOR DIRECTING COMMUNICATIONS TO ANOTHER DEVICE	17/071075	11381945	10/15/2020	7/5/2022	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR CONTEXTUAL ACCESS CONTROL	17/070602	20220116392	10/14/2020	---	Pending	CITRIX SYSTEMS, INC.
EVENT ROOT CAUSE IDENTIFICATION FOR COMPUTING ENVIRONMENTS	17/069215	20220114040	10/13/2020	---	Allowed	CITRIX SYSTEMS, INC.
SESSION BASED ELASTIC LAYERING	17/066757	20210026937	10/9/2020	—	Pending	CITRIX SYSTEMS, INC.
REAL-TIME FILE SYSTEM EVENT MAPPING TO CLOUD EVENTS	17/064712	11385946	10/7/2020	7/12/2022	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0377

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SECURELY ENTERING CREDENTIALS VIA HEAD-MOUNTED DISPLAY DEVICE	17/063387	20210133305	10/5/2020	—	Pending	CITRIX SYSTEMS, INC.
CONSTRAINING RESOURCE ALLOCATION RATE FOR STATEFUL MULTI-TENANT HTTP PROXIES AND DENIAL-OF-SERVICE ATTACK PREVENTION	17/063230	20210377294	10/5/2020	—	Pending	CITRIX SYSTEMS, INC.
DYNAMIC ACCESS CONTROL TO NETWORK RESOURCES USING FEDERATED FULL DOMAIN LOGON	17/063198	20210021605	10/5/2020	—	Pending	CITRIX SYSTEMS, INC.
CLOUD AUTHENTICATED OFFLINE FILE SHARING	17/061901	20210037083	10/2/2020	—	Pending	CITRIX SYSTEMS, INC.
MASK INCLUDING A MOVEABLE WINDOW FOR VIEWING CONTENT	17/060407	20220067220	10/1/20202	---	Pending	CITRIX SYSTEMS, INC.
COMBINED AUTHENTICATION AND CONNECTION ESTABLISHMENT FOR A COMMUNICATION CHANNEL	17062130	20220109663	10/2/2020	---	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SECURE PEER-TO-PEER CACHING	17/039258	20210092200	9/30/2020	—	Pending	CITRIX SYSTEMS, INC.
ADAPTIVE DATA LOSS PREVENTION	17/036338	20220100885	9/30/2020	---	Pending	CITRIX SYSTEMS, INC.
DESKTOP AS A SERVICE SYSTEM	17/032001	20220035642	9/25/2020	---	Pending	CITRIX SYSTEMS, INC.

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REEL: 062079 FRAME: 0378

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DATA LOSS PROTECTION ON SECONDARY DISPLAYS	17/031986	20220100874	9/25/2020	---	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR REMOTE COMPUTING SESSIONS WITH VARIABLE FORWARD ERROR CORRECTION (FEC)	17/030633	11294697	9/24/2020	4/5/2022	Granted	CITRIX SYSTEMS, INC.
AUTOMATIC GRAPH DATABASE QUERY CONSTRUCTION AND EXECUTION	17/029400	20220092116	9/23/2020	---	Pending	CITRIX SYSTEMS, INC.
SPLIT-TUNNELING FOR CLIENTLESS SSL-VPN SESSIONS WITH ZERO-CONFIGURATION	17/029366	20210006537	9/23/2020	—	Pending	CITRIX SYSTEMS, INC.
CONTACTLESS WORKPLACE ACCESS	17/029240	20220092550	9/23/2020	---	Pending	CITRIX SYSTEMS, INC.
ENHANCED TOKEN TRANSFER	17/025199	11431502	9/18/2020	8/10/2022	Granted	CITRIX SYSTEMS, INC.
INTELLIGENT REDIRECTOR BASED ON RESOLVER TRANSPARENCY	17/024921	11349803	9/18/2020	5/31/2022	Granted	CITRIX SYSTEMS, INC.
TOUCH SUPPORT FOR REMOTED APPLICATIONS	17/023772	20210004096	9/17/2020	—	Pending	CITRIX SYSTEMS, INC.
NEXT ACTION RECOMMENDATION SYSTEM	17/023582	20220067551	9/17/2020	---	Pending	CITRIX SYSTEMS, INC.
INTERMEDIATED RETRIEVAL OF NETWORKED CONTENT	17/021266	11223698	9/15/2020	1/11/2022	Granted	CITRIX SYSTEMS, INC.

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PEER REVIEWED ACCESS TO COMPUTING SYSTEM	17/020673	20220086151	9/14/2020	---	Pending	CITRIX SYSTEMS, INC.
DATA CACHING FOR CLOUD SERVICES	17/020265	11354531	9/14/2020	6/7/2022	Granted	CITRIX SYSTEMS, INC.
DETERMINING RISK METRICS FOR ACCESS REQUESTS IN NETWORK ENVIRONMENTS USING MULTIVARIATE MODELING	17/016985	20210400075	9/10/2020	---	Allowed	CITRIX SYSTEMS, INC.
SINGLE SIGN-ON FROM DESKTOP TO NETWORK	17/015567	11457007	9/9/2020	9/27/2022	Granted	CITRIX SYSTEMS, INC.
SECURE INFORMATION EXCHANGE IN FEDERATED AUTHENTICATION	17/012207	20220078007	9/4/2020	---	Pending	CITRIX SYSTEMS, INC.
DATA SHARING EVENTS	17/008739	11271866	9/1/2020	3/8/2022	Granted	CITRIX SYSTEMS, INC.
EVALUATION OF SECURITY POLICIES IN REAL-TIME FOR ENTITIES USING GRAPH AS DATASTORE	17/007199	20220067097	8/31/2020	---	Pending	CITRIX SYSTEMS, INC.
COMPUTING SYSTEM PROVIDING SUGGESTED ACTIONS WITHIN A SHARED APPLICATION PLATFORM AND RELATED METHODS	17/005405	11288083	8/28/2020	3/29/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR RENDERING A SECURE DOCUMENT WITH A TEXT SELECTION CAPABILITY	17/003704	20200396355	8/26/2020	—	Pending	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DYNAMIC RECOMMENDATION ENGINE	17/003427	20210374684	8/26/2020	—	Pending	CITRIX SYSTEMS, INC.
SYSTEM FOR BANDWIDTH OPTIMIZATION WITH TRAFFIC PRIORITY DETERMINATION	16/999554	20200389406	8/21/2020	—	Allowed	CITRIX SYSTEMS, INC.
ACTIVITY DETECTION IN WEB APPLICATIONS	16/999349	20200382614	8/21/2020	—	Pending	CITRIX SYSTEMS, INC.
METHOD FOR RESUMPTION OF AN APPLICATION SESSION WITH A VERY DYNAMIC AND VERY LARGE STATE IN A STANDBY INTERMEDIARY DEVICE WHEN THE PRIMARY DEVICE FAILS	16/998467	11388243	8/20/2020	7/12/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PERFORMING SERVICE TAG SWITCHING IN AN APPLICATION DELIVERY CONTROLLER	16/996551	20200382344	8/18/2020	—	Pending	CITRIX SYSTEMS, INC.
PREVENTION OF MALICIOUS USE OF ENDPOINT DEVICES	16/995929	20220060446	8/18/2020	---	Pending	CITRIX SYSTEMS, INC.
CONTENT REFERENCE MANAGEMENT SYSTEM	16/994979	20220043698	8/17/2020	---	Pending	CITRIX SYSTEMS, INC.
LEARNING TECHNIQUE FOR QOS BASED CLASSIFICATION AND PRIORITIZATION OF SAAS APPLICATIONS	16/992948	20200374336	8/13/2020	—	Pending	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
ROBUST SUSPENSION AND RESUMPTION OF DESKTOP VIRTUALIZATION	16/992660	11316766	8/13/2020	4/26/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF SHARING A DATABASE ACROSS MULTIPLE DEPLOYMENTS AND SERVICES	16/992584	11403306	8/13/2020	8/2/2022	Granted	CITRIX SYSTEMS, INC.
WORKSPACE RESILIENCY WITH MULTI-FEED STATUS RESOURCE CACHING	16/992393	20220050699	8/13/2020	---	Pending	CITRIX SYSTEMS, INC.
METHOD FOR OPTIMAL PATH SELECTION FOR DATA TRAFFIC UNDERGOING HIGH PROCESSING OR QUEUING DELAY	16/990508	11388085	8/11/2020	7/12/2022	Granted	CITRIX SYSTEMS, INC.
FILE SOURCE TRACKING	16/987696	20210406225	8/7/2020	---	Pending	CITRIX SYSTEMS, INC.
WEBRTC API REDIRECTION WITH ALTERNATIVE NETWORK CONNECTIVITY STEERING	16/987672	11245755	8/7/2020	2/8/2022	Granted	CITRIX SYSTEMS, INC.
DETECTION AND REPAINTING OF SEMI-TRANSPARENT OVERLAYS	16/985505	11245754	8/5/2020	2/8/2022	Granted	CITRIX SYSTEMS, INC.
UPGRADING USER SPACE NETWORKING STACKS WITHOUT DISRUPTIONS TO NETWORK TRAFFIC	16/984575	20210399955	8/4/2020	---	Allowed	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR COMPUTING A SUCCESS PROBABILITY OF A SESSION LAUNCH USING STOCHASTIC AUTOMATA	16/984422	20210397469	8/4/2020	---	Pending	CITRIX SYSTEMS, INC.
USER PERSISTENCE DATA MOVED BETWEEN INDIVIDUAL COMPUTE ENVIRONMENTS AND SESSION HOST ENVIRONMENTS	16/953553	20210089342	11/20/2020	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR UNICODE HOMOGRAPH ANTI-SPOOFING USING OPTICAL CHARACTER RECOGNITION	16/952686	20210073568	11/19/2020	—	Pending	CITRIX SYSTEMS, INC.
SNAP-IN SECRET SERVER SUPPORT	16/951086	20220156387	11/18/2020	---	Pending	CITRIX SYSTEMS, INC.
FILE CONTAINERIZATION AND MANAGEMENT	16/950247	20210075849	11/17/2020	—	Pending	CITRIX SYSTEMS, INC.
NORMALIZING USER IDENTIFICATION ACROSS DISPARATE SYSTEMS	16/950027	20210073210	11/17/2020	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR AUTONOMOUS PROGRAM DETECTION AND MANAGEMENT	16/944767	20220038447	7/31/2020	---	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SELECTING COMMUNICATION PATHS FOR APPLICATIONS	16/943745	11405309	7/30/2020	8/2/2022	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SENSITIVE TO BURSTY PACKET DROPS						
SECURE FILE MODIFICATION WITH SUPERVISION	16/943188	20210399886	7/30/2020	---	Pending	CITRIX SYSTEMS, INC.
ENHANCED SECURITY MECHANISM FOR FILE ACCESS	16/942142	20220035933	7/29/2020	---	Pending	CITRIX SYSTEMS, INC.
SCALABLE MESSAGE PASSING ARCHITECTURE IN A CLOUD ENVIRONMENT	16/942098	11201930	7/29/2020	12/14/2021	Granted	CITRIX SYSTEMS, INC.
REMOTING OR LOCALIZING TOUCH GESTURES AT A VIRTUALIZATION CLIENT AGENT	16/941664	11209910	7/29/2020	12/28/2021	Granted	CITRIX SYSTEMS, INC.
WORKFLOW MANAGEMENT SYSTEM	16/941226	20220036271	7/28/2021	---	Pending	CITRIX SYSTEMS, INC.
SECURE TOKEN TRANSFER BETWEEN UNTRUSTED ENTITIES	16/941001	20220038282	7/28/2021	---	Pending	CITRIX SYSTEMS, INC.
SINGLE SIGN-ON USING A MOBILE DEVICE MANAGEMENT ENROLLED DEVICE	16/940487	20220038448	7/28/2020	---	Pending	CITRIX SYSTEMS, INC.
METHOD FOR DNS RESPONSE REORDERING BASED ON PATH QUALITY AND CONNECTION PRIORITY FOR BETTER QOS	16/939951	11394682	7/27/2020	7/19/2022	Granted	CITRIX SYSTEMS, INC.
RENDERING BASED ON A DOCUMENT OBJECT MODEL	16/938229	20200356721	7/24/2020	—	Pending	CITRIX SYSTEMS, INC.

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RENDERING BASED ON A DOCUMENT OBJECT MODEL	16/938162	20200356720	7/24/2020	—	Pending	CITRIX SYSTEMS, INC.
WEB ADAPTATION AND HOOKING FOR VIRTUAL PRIVATE INTEGRATION SYSTEMS AND METHODS	16/937913	20200358841	7/24/2020	—	Pending	CITRIX SYSTEMS, INC.
APPLICATION AND NETWORK AWARE ADAPTIVE COMPRESSION FOR BETTER QOE OF LATENCY SENSITIVE APPLICATIONS	16/937185	11405326	7/23/2020	8/2/2022	Granted	CITRIX SYSTEMS, INC.
IDENTIFICATION OF LOG EVENTS FOR COMPUTING SYSTEMS	16/934418	11366734	7/21/2020	6/21/2022	Granted	CITRIX SYSTEMS, INC.
PROVIDING MOBILE DEVICE MANAGEMENT FUNCTIONALITIES	16/934058	11290346	7/21/2020	3/29/2022	Granted	CITRIX SYSTEMS, INC.
METHOD TO TRACK SSL SESSION STATES FOR SSL OPTIMIZATION OF SAAS BASED APPLICATIONS	16/933805	20200351251	7/20/2020	—	Pending	CITRIX SYSTEMS, INC.
DEVICE MANAGEMENT ENFORCEM8ENT IN SECURE INSTALLATIONS	16/933501	20220022035	7/20/2020	---	Pending	CITRIX SYSTEMS, INC.
SECURE TRANSLATION OF SENSITIVE CONTENT	16/930955	20210326537	7/16/2020	—	Pending	CITRIX SYSTEMS, INC.
AUTONOMOUS LEARNING OF ENTITY VALUES IN ARTIFICIAL	16/930741	10852439	7/16/2020	11/11/2020	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
INTELLIGENCE CONVERSATIONAL SYSTEMS						
SYSTEMS AND METHODS OF ENHANCING MENTAL HEALTH AND PERFORMANCE	16/929910	20220019593	7/15/2020	---	Pending	CITRIX SYSTEMS, INC.
DETECTING AND REPORTING CHANGES IN DATA VALUES	16/929846	11360962	7/15/2020	6/14/2022	Granted	CITRIX SYSTEMS, INC.
DISPLAY MANAGEMENT FOR NATIVE USER EXPERIENCES	16/929339	11281360	7/15/2020	3/22/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CONNECTING TO PEOPLE WITH REQUESTED SKILLSETS	16/929285	20210382954	7/15/2020	—	Pending	CITRIX SYSTEMS, INC.
DETECTING FAULTY RESOURCES OF A RESOURCE DELIVERY SYSTEM	16/927075	20210367901	7/13/2020	—	Pending	CITRIX SYSTEMS, INC.
MULTIPLE GEOGRAPHY SERVICE ROUTING	16/923632	11310340	7/8/2020	4/19/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SUPPORTING UNAUTHENTICATED POST REQUESTS THROUGH A REVERSE PROXY ENABLED FOR AUTHENTICATION	16/922483	20220014521	7/7/2020	---	Allowed	CITRIX SYSTEMS, INC.
DETECTING OUTLIERS IN SERVER TRANSACTION TIME AS A FORM OF TIME SERIES DATA	16/920977	11379443	7/6/2020	7/5/2022	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
INPUT METHOD LANGUAGE DETERMINATION	16/919572	20210357598	7/2/2020	—	Pending	CITRIX SYSTEMS, INC.
VIRTUAL PRIVATE NETWORKING BASED ON PEER-TO-PEER COMMUNICATION	16/918758	—	7/1/2020	—	Unpublished	CITRIX SYSTEMS, INC.
COMPUTER SYSTEM PROVIDING USER SPECIFIC SESSION PRELAUNCH FEATURES AND RELATED METHODS	16/918679	11201927	7/1/2020	12/14/2021	Granted	CITRIX SYSTEMS, INC.
COMPUTING SYSTEM PROVIDING CLOUD-BASED USER PROFILE MANAGEMENT FOR VIRTUAL SESSIONS AND RELATED METHODS	16/918045	11201926	7/1/2020	12/14/2021	Granted	CITRIX SYSTEMS, INC.
INJECTION OF TOKENS OR CLIENT CERTIFICATES FOR MANAGED APPLICATION COMMUNICATION	16/918022	20220006800	7/1/2020	---	Allowed	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR LATENCY MASKING VIA PREFIX CACHING	16/916795	11212361	6/30/2020	12/28/2021	Granted	CITRIX SYSTEMS, INC.
DYNAMIC PRODUCT RESOURCE MAPPING OF CLOUD RESOURCES	16/915184	20210406074	6/29/2020	—	Pending	CITRIX SYSTEMS, INC.
DETERMINATION OF CLOUD RESOURCE UTILIZATION	16/915178	20210406089	6/29/2020	—	Pending	CITRIX SYSTEMS, INC.
DISCOVERY AND ADJUSTMENT OF PATH MAXIMUM TRANSMISSION UNIT	16/913356	20210168090	6/26/2020	—	Pending Issuance	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DISCOVERY AND ADJUSTMENT OF PATH MAXIMUM TRANSMISSION UNIT	16/913281	11425052	6/26/2020	8/3/2022	Granted	CITRIX SYSTEMS, INC.
PRIORITIZING SEQUENTIAL APPLICATION TASKS	16/911765	11341443	6/25/2020	5/24/2022	Granted	CITRIX SYSTEMS, INC.
COMPUTER RESOURCE ALLOCATION BASED ON CATEGORIZING COMPUTING PROCESSES	16/911519	20210342194	6/25/2020	—	Pending	CITRIX SYSTEMS, INC.
AUTO-SCALING FOR ALLOCATION OF CLOUD SERVICE RESOURCES IN APPLICATION DEPLOYMENTS	16/911103	11307901	6/24/2020	4/19/2022	Granted	CITRIX SYSTEMS, INC.
SENSITIVE INFORMATION OBFUSCATION DURING SCREEN SHARE	16/910615	20210365589	6/24/2020	—	Pending	CITRIX SYSTEMS, INC.
CROSS ENVIRONMENT UPDATE OF CLOUD RESOURCE TAGS	16/909401	20210397588	6/23/2020	—	Allowed	CITRIX SYSTEMS, INC.
RDP PROXY SUPPORT IN PRESENCE OF RDP SERVER FARM WITH SESSION DIRECTORY OR BROKER	16/906783	20200322327	6/19/2020	—	Pending	CITRIX SYSTEMS, INC.
ADAPTIVE ANOMALY DETECTOR	16/906119	20210350277	6/19/2020	—	Pending	CITRIX SYSTEMS, INC.
INVOKING MICROAPP ACTIONS FROM USER APPLICATIONS	16/902867	11368373	6/16/2020	6/21/2022	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
EXTENDING SINGLE-SIGN-ON TO RELYING PARTIES OF FEDERATED LOGON PROVIDERS	16/900229	20200314088	6/12/2020	—	Pending	CITRIX SYSTEMS, INC.
LOAD BALANCING OF COMPUTING SESSIONS WITH LOAD PATTERNS	16/899098	20210373967	6/11/2020	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR USING UNENCRYPTED COMMUNICATION TUNNELS	16/898822	11356418	6/11/2020	6/7/2022	Granted	CITRIX SYSTEMS, INC.
SELECTING APPLICATIONS BASED ON FEATURES OF A FILE	16/897599	20210326143	6/10/2020	—	Pending	CITRIX SYSTEMS, INC.
DOMAIN NAME SERVICE CACHING IN DISTRIBUTED SYSTEMS	16/896400	11272000	6/9/2020	3/8/2022	Granted	CITRIX SYSTEMS, INC.
AUTHENTICATION OF A CLIENT DEVICE BASED ON ENTROPY FROM A SERVER OR OTHER DEVICE	16/895467	20200304492	6/8/2020	—	Pending	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR AUTHENTICATION DATA PASSING	16/895396	20210385224	6/8/2020	—	Pending	CITRIX SYSTEMS, INC.
METHOD AND SYSTEM FOR CONTEXT AWARE FRICTIONLESS AUTHENTICATION BASED ON AUTHENTICATION SCORES	16/895321	20210385215	6/8/2020	—	Allowed	CITRIX SYSTEMS, INC.
SECURE DEVICE NOTIFICATIONS FROM REMOTE APPLICATIONS	16/894012	11343235	6/5/2020	5/24/2022	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR WEB COLLABORATION	16/892565	11314820	6/4/2020	4/26/2022	Granted	CITRIX SYSTEMS, INC.
UNIFIED FILE STORAGE SYSTEM	16/892539	11460943	6/4/2020	6/14/2022	Granted	CITRIX SYSTEMS, INC.
DISCOVERY AND ADJUSTMENT OF PATH MAXIMUM TRANSMISSION UNIT	16/890661	20210168088	6/2/2020	—	Pending Issuance	CITRIX SYSTEMS, INC.
TASK SHIFTING BETWEEN COMPUTING DEVICES	16/889116	20210349753	6/1/2020	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING A VISIBLE WATERMARK IN A REMOTE SESSION	16/887884	11301950	5/29/2020	4/12/2022	Granted	CITRIX SYSTEMS, INC.
EXTENDED REALITY AUTHENTICATION	16/887853	11362825	5/29/2020	6/14/2022	Granted	CITRIX SYSTEMS, INC.
MACHINE TRANSLATION OF DIGITAL CONTENT	16/887492	20210294988	5/29/2020	—	Pending	CITRIX SYSTEMS, INC.
PAGE PERSONALIZATION	16/887158	20210349961	5/29/2020	—	Pending Issuance	CITRIX SYSTEMS, INC.
DYNAMIC REGION BASED APPLICATION OPERATIONS	16/887152	11216715	5/29/2020	1/4/2022	Granted	CITRIX SYSTEMS, INC.
MANAGEMENT OF UNMANAGED USER ACCOUNTS AND TASKS IN A MULTI-ACCOUNT MOBILE APPLICATION	16/887054	20200293364	5/29/2020	—	Pending	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEM AND RELATED METHODS PROVIDING CHANNEL SWITCHING BETWEEN APPLIANCES	16/885430	11349936	5/28/2020	5/31/2022	Granted	CITRIX SYSTEMS, INC.
NORMALIZING API CALLS FOR A SUITE OF MULTI-TENANT PRODUCTS ACROSS DISPARATE MULTI-TENANT AND SINGLE-TENANT IDENTITY DIRECTORIES	16/884761	20200285730	5/27/2020	—	Granted	CITRIX SYSTEMS, INC.
SHARED SECRET VAULT FOR APPLICATIONS WITH SINGLE SIGN ON	16/884667	11288384	5/27/2020	3/29/2022	Granted	CITRIX SYSTEMS, INC.
INTELLIGENT FEATURE DELIVERY IN A COMPUTING ENVIRONMENT	16/884355	20210312300	5/27/2020	—	Pending	CITRIX SYSTEMS, INC.
COMPUTING SYSTEM AND RELATED METHODS PROVIDING CONNECTION LEASE INFRASTRUCTURE WITH GATEWAY APPLIANCE FAILOVER	16/882856	11394535	5/26/2020	7/19/2022	Granted	CITRIX SYSTEMS, INC.
INDICATING RELATIVE URGENCY OF ACTIVITY FEED NOTIFICATIONS	16/882851	11461422	5/26/2020	10/4/2022	Granted	CITRIX SYSTEMS, INC.
WRAPPING CONTINUATION TOKENS TO SUPPORT PAGING FOR MULTIPLE SERVERS ACROSS DIFFERENT GEOLOCATIONS	16/881703	20200287979	5/22/2020	—	Issuance	CITRIX SYSTEMS, INC.
GRAPHICAL RENDERING USING MULTIPLE GRAPHICS PROCESSORS	16/880006	11263719	5/21/2020	3/1/2022	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
IDENTIFYING AN APPLICATION FOR COMMUNICATING WITH ONE OR MORE INDIVIDUALS	16/879246	11334825	5/20/2020	5/17/2022	Granted	CITRIX SYSTEMS, INC.
COMPUTING SYSTEM AND RELATED METHODS PROVIDING CONNECTION LEASE EXCHANGE WITH SECURE CONNECTION LEASE COMMUNICATIONS	16/878840	11456861	5/20/2020	9/27/2022	Granted	CITRIX SYSTEMS, INC.
COMPUTING SYSTEM AND RELATED METHODS PROVIDING CONNECTION LEASE EXCHANGE AND MUTUAL TRUST PROTOCOL	16/878172	11456860	5/19/2020	9/27/2022	Granted	CITRIX SYSTEMS, INC.
NETWORK TRAFFIC STEERING WITH PROGRAMMATICALLY GENERATED PROXY AUTO-CONFIGURATION FILES	16/877971	11343185	5/19/2020	5/24/2022	Granted	CITRIX SYSTEMS, INC.
DYNAMIC RESOURCE ALLOCATION	16/876998	20210357834	5/18/2020	—	Allowed	CITRIX SYSTEMS, INC.
CONNECTION LEASING SYSTEM AND RELATED METHODS FOR USE WITH LEGACY VIRTUAL DELIVERY APPLIANCES	16/876632	20200371829	5/18/2020	—	Pending	CITRIX SYSTEMS, INC.
VIRTUAL DELIVERY APPLIANCE AND SYSTEM WITH REMOTE AUTHENTICATION AND RELATED METHODS	16/876289	20200374284	5/18/2020	—	Pending	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR PRODUCTION LOAD SIMULATION	16/875117	20210319151	5/15/2020	—	Pending	CITRIX SYSTEMS, INC.
MODIFICATION OF APPLICATION-PROVIDED TURN SERVERS	16/872797	11277379	5/12/2020	3/15/2022	Granted	CITRIX SYSTEMS, INC.
LOCAL AUTHENTICATION VIRTUAL AUTHORIZATION	16/871728	20210352069	5/11/2020	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR POLICY DRIVEN FINE GRAIN VALIDATION OF SERVERS SSL CERTIFICATE FOR CLIENTLESS SSLVPN ACCESS	16/871192	20200274867	5/11/2020	—	Issuance	CITRIX SYSTEMS, INC.
SYSTEM FOR PREVENTION OF IMAGE CAPTURE OF SENSITIVE INFORMATION AND RELATED TECHNIQUES	16/870056	11361113	5/8/2020	6/14/2022	Granted	CITRIX SYSTEMS, INC.
INTELLIGENT MONITOR AND LAYOUT MANAGEMENT	16/862719	11385775	4/30/2020	7/12/2022	Granted	CITRIX SYSTEMS, INC.
DRAG AND DROP FUNCTIONALITY IN MULTI-MONITOR AND LARGE MONITOR ENVIRONMENTS	16/862686	20210342049	4/30/2020	—	Pending	CITRIX SYSTEMS, INC.
MICRO-APPLICATION CREATION AND EXECUTION	16/861447	11354122	4/29/2020	6/7/2022	Granted	CITRIX SYSTEMS, INC.
MULTIFACTOR AUTHENTICATION SERVICE	16/861445	20210334352	4/29/2020	—	Pending	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
COMPUTING SYSTEM AND METHODS PROVIDING SUPPORT SESSION ASSIGNMENT BETWEEN SUPPORT AGENT CLIENT DEVICES AND CUSTOMER CLIENT DEVICES	16/860420	11257022	4/28/2020	2/22/2022	Granted	CITRIX SYSTEMS, INC.
AUTHENTICATING ACCESS TO COMPUTING RESOURCES	16/857987	20210336966	4/24/2020	—	Pending	CITRIX SYSTEMS, INC.
DOMAIN PASS-THROUGH AUTHENTICATION IN A HYBRID CLOUD ENVIRONMENT	16/857390	11206253	4/24/2020	12/21/2021	Granted	CITRIX SYSTEMS, INC.
UNIFIED PEOPLE CONNECTOR	16/856430	20210334589	4/23/2020	—	Pending	CITRIX SYSTEMS, INC.
CONTEXTUAL APPLICATION SWITCH BASED ON USER BEHAVIORS	16/855100	20210311774	4/22/2020	—	Pending	CITRIX SYSTEMS, INC.
LOW LATENCY ACCESS TO APPLICATION RESOURCES ACROSS GEOGRAPHICAL LOCATIONS	16/854120	11201947	4/21/2020	12/14/2021	Granted	CITRIX SYSTEMS, INC.
LOCATION-BASED APPLICATION DISCOVERY	16/851373	11395101	4/17/2020	7/19/2022	Granted	CITRIX SYSTEMS, INC.
TRACKING APPLICATION USAGE FOR MICROAPP RECOMMENDATION	16/850697	20210329081	4/16/2020	—	Allowed	CITRIX SYSTEMS, INC.
SYSTEM AND METHODS FOR MULTI-LINKS SD-WAN USING CELLULAR DEVICE CONNECTIONS	16/850572	20210329542	4/16/2020	—	Pending	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
MEETING ROOM RESERVATION SYSTEM AND RELATED TECHNIQUES	16/850272	11251983	4/16/2020	2/15/2022	Granted	CITRIX SYSTEMS, INC.
FILE SHARING SERVICE CONTROLLER	16/848675	20210303520	4/14/2020	—	Pending	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR VALIDATING VIRTUAL SESSION REQUESTS	16/847780	11362943	4/14/2020	6/14/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR INTEGRATED SERVICE DISCOVERY FOR NETWORK APPLICATIONS	16/845669	20200244743	4/10/2020	—	Pending	CITRIX SYSTEMS, INC.
REMOTING USER CREDENTIAL INFORMATION TO A REMOTE BROWSER	16/845201	20210318894	4/10/2020	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR VERSIONING A CLOUD ENVIRONMENT FOR A DEVICE	16/842317	11360760	4/7/2020	6/14/2022	Granted	CITRIX SYSTEMS, INC.
INTER-APPLICATION RELEVANCE MANAGEMENT FOR APPLICATION VIRTUALIZATION PLATFORM	16/842042	11347528	4/7/2020	5/31/2022	Granted	CITRIX SYSTEMS, INC.
REAL TIME DIGITAL CONTENT CONCEALMENT	16/839231	11423121	4/3/2020	8/23/2022	Granted	CITRIX SYSTEMS, INC.
CONTEXT BASED DATA LEAK PREVENTION OF SENSITIVE INFORMATION	16/835928	20210303718	3/31/2020	—	Pending	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
CLOUD RESOURCE UTILIZATION MANAGEMENT	16/834763	11429454	3/30/2020	8/10/2022	Granted	CITRIX SYSTEMS, INC.
CLOUD RESOURCE ESTIMATION AND RECOMMENDATION	16/834757	11303540	3/30/2020	4/12/2022	Granted	CITRIX SYSTEMS, INC.
SECURE FAST REBOOT OF A VIRTUAL MACHINE	16/834674	20210303469	3/30/2020	—	Allowed	CITRIX SYSTEMS, INC.
MANAGING CONNECTIONS BETWEEN A USER DEVICE AND PERIPHERAL DEVICES	16/834124	11457483	3/30/2020	9/27/2022	Granted	CITRIX SYSTEMS, INC.
SORTING ACTIVITY FEED NOTIFICATIONS TO ENHANCE TEAM EFFICIENCY	16/832274	20210294647	3/27/2020	—	Allowed	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF JUST-IN-TIME PROACTIVE NOTIFICATION OF A PRODUCT RELEASE CONTAINING A SOFTWARE FIX	16/829565	20200225933	3/25/2020	—	Pending	CITRIX SYSTEMS, INC.
SYNC AS A SERVICE FOR CLOUD-BASED APPLICATIONS	16/829426	20200301887	3/25/2020	—	Pending	CITRIX SYSTEMS, INC.
DYNAMICALLY SWITCHING BETWEEN POINTER MODES	16/825037	20210105306	3/20/2020	—	Allowed	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR EXPEDITED ACCESS TO APPLICATIONS	16/822900	20210248053	3/18/2020	—	Pending Issuance	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR INTERCEPTING AND ENHANCING SAAS APPLICATION CALLS VIA EMBEDDED BROWSER	16/820027	20200218583	3/16/2020	—	Pending	CITRIX SYSTEMS, INC.
NOTIFICATION PRIORITIZATION BASED ON USER RESPONSES	16/818906	20210201175	3/13/2020	—	Pending	CITRIX SYSTEMS, INC.
POLICY BASED LOCATION PROTECTION SERVICE	16/816832	11284242	3/12/2020	3/22/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHODS FOR ENCRYPTION BASED ON ENVIRONMENTAL FACTORS	16/809857	11381395	3/5/2020	7/5/2022	Granted	CITRIX SYSTEMS, INC.
GENERATING URLS TO DETECT AUTONOMOUS PROGRAMS SYSTEMS AND METHODS	16/808731	20210281605	3/4/2020	—	Pending	CITRIX SYSTEMS, INC.
PROVISIONING SERVICES (PVS) CLOUD STREAMING WITH READ CACHE	16/808549	11243781	3/4/2020	2/8/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR GAMIFICATION OF SAAS APPLICATIONS	16/806092	20200204634	3/2/2020	—	Allowed	CITRIX SYSTEMS, INC.
VISUALIZATION OF RELATIONSHIP INFORMATION	16/799108	20210133241	2/24/2020	—	Pending	CITRIX SYSTEMS, INC.
BIOMETRIC IDENTIFICATION OF INFORMATION RECIPIENTS	16/798725	20210266738	2/24/2020	—	Pending	CITRIX SYSTEMS, INC.

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REEL: 062079 FRAME: 0397

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
MIGRATION OF A DESKTOP WORKLOAD	16/794372	20210255884	2/19/2020	—	Pending	CITRIX SYSTEMS, INC.
SEGREGATION OF PROTECTED RESOURCES FROM NETWORK FRONTEND	16/793433	20200186537	2/18/2020	8/10/2022	Granted	CITRIX SYSTEMS, INC.
INCREASING QOS THROUGHPUT AND EFFICIENCY THROUGH LAZY BYTE BATCHING	16/792527	20200204497	2/17/2020	—	Pending	CITRIX SYSTEMS, INC.
INSTANT VIRTUAL APPLICATION LAUNCH	16/790980	11210113	2/14/2020	12/28/2021	Granted	CITRIX SYSTEMS, INC.
OPTICALLY SCANNABLE REPRESENTATION OF A HARDWARD SECURED ARTIFACT	16/790125	20210258171	2/13/2020	—	Allowed	CITRIX SYSTEMS, INC.
AUTOMATICALLY EXECUTING GRAPHQL QUERIES ON DATABASES	16/786032	20210248143	2/10/2020	—	Pending	CITRIX SYSTEMS, INC.
VIRTUALIZED SPEECH IN A DISTRIBUTED NETWORK ENVIRONMENT	16/782470	11367445	2/5/2020	6/21/2022	Granted	CITRIX SYSTEMS, INC.
METHOD AND SYTEM FOR PROTECTING PRIVACY OF USERS IN SESSION RECORDINGS	16/780445	20210243233	2/3/2020	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR AUTOMATIC RECOVERY	16/778465	11301622	1/31/2020	4/12/2022	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
ADAPTIVE SESSION RELIABILITY OVER MULTIPLE TRANSPORTS	16/776022	11233882	1/29/2020	1/25/2022	Granted	CITRIX SYSTEMS, INC.
RECOMMENDING FILES FOR FILE SHARING SYSTEM	16/774448	11334529	1/28/2020	5/17/2022	Granted	CITRIX SYSTEMS, INC.
SECURING PHYSICAL ACCESS TO FILE CONTENTS	16/774262	20210232673	1/28/2020	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SERVICE RESOURCE ALLOCATION AND DEPLOYMENT	16/773019	11360825	1/27/2020	6/14/2022	Granted	CITRIX SYSTEMS, INC.
DYNAMIC IMAGE COMPRESSION BASED ON PERCEIVED VIEWING DISTANCE	16/752993	20210233279	1/27/2020	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR LIVE PERFORMANCE MAPPING OF COMPUTING ENVIRONMENTS	16/750727	20210234919	1/23/2020	—	Pending	CITRIX SYSTEMS, INC.
SYSTEM FOR BANDWIDTH OPTIMIZATION WITH TRAFFIC PRIORITY DETERMINATION	16/750613	20200162393	1/23/2020	—	Allowed	CITRIX SYSTEMS, INC.
COLOR SCHEME GENERATOR FOR WEB APPLICATIONS	16/749113	11216527	1/22/2020	1/4/2022	Granted	CITRIX SYSTEMS, INC.
REMOTE MANAGEMENT OF DISTRIBUTED DATACENTERS	16/748880	11210139	1/22/2020	12/28/2021	Granted	CITRIX SYSTEMS, INC.
CROSS-CLOUD CALL DETECTION	16/745218	20210224048	1/16/2020	—	Allowed	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
TIME COST ESTIMATION FOR ACTIVITY FEED NOTIFICATIONS	16/744465	20210182171	1/16/2020	—	Pending	CITRIX SYSTEMS, INC.
PROACTIVE DATABASE SCALING	16/744164	20210216512	1/15/2020	—	Pending	CITRIX SYSTEMS, INC.
GENERATING AND PRESENTING CONTEXTUAL USER INTERFACES ON DEVICES WITH FOLDABLE DISPLAYS	16/743060	11392395	1/15/2020	7/19/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEM FOR PROCESSING ENTERPRISE DATA TO IMPROVE TASK PLANNING	16/742537	20210216945	1/14/2020	—	Pending	CITRIX SYSTEMS, INC.
VIRTUAL MEETINGS IN AD-HOC NETWORKS	16/742250	20210218590	1/14/2020	—	Allowed	CITRIX SYSTEMS, INC.
COMPUTING SYSTEM AND METHODS PROVIDING SESSION ACCESS BASED UPON AUTHENTICATION TOKEN WITH DIFFERENT AUTHENTICATION CREDENTIALS	16/739342	20200374121	1/10/2020	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR AUTOMATED APPLICATION LAUNCHING	16/738321	20210165662	1/9/2020	—	Pending	CITRIX SYSTEMS, INC.
INTELLIGENT SESSION TIMEOUTS FOR VIRTUAL WORKSPACE	16/736204	20210208918	1/7/2020	—	Pending	CITRIX SYSTEMS, INC.
PROVIDING UNINTERRUPTED ACCESS TO RESOURCES VIA A MOBILE HOTSPOT CONNECTION	16/734783	20210211902	1/6/2020	—	Pending	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
COMPUTER PROCESSING SYSTEM WITH RESOURCE OPTIMIZATION AND ASSOCIATED METHODS	16/734667	20200142736	1/6/2020	—	Pending	CITRIX SYSTEMS, INC.
BOUND BASED CONTEXTUAL ZOOM	16/733962	20200142570	1/3/2020	—	Pending	CITRIX SYSTEMS, INC.
DYNAMIC TOGGLE OF FEATURES FOR ENTERPRISE RESOURCES	16/733654	20210208933	1/3/2020	—	Pending	CITRIX SYSTEMS, INC.
DOCUMENT STORAGE AND MANAGEMENT	16/733420	20210157830	1/3/2020	—	Pending	CITRIX SYSTEMS, INC.
ROOT CAUSE ANALYSIS IN MULTIVARIATE UNSUPERVISED ANOMALY DETECTION	16/733324	20210136098	1/3/2020	—	Pending	CITRIX SYSTEMS, INC.
TEXT CLASSIFICATION FOR INPUT METHOD EDITOR	16/731386	20210150289	12/31/2019	—	Pending	CITRIX SYSTEMS, INC.
LEVERAGING LOCATION INFORMATION OF A SECONDARY DEVICE	16/730352	20200213318	12/30/2019	—	Pending	CITRIX SYSTEMS, INC.
AUTHENTICATING TO SECURED RESOURCE VIA COUPLED DEVICES	16/730304	20200213317	12/30/2019	8/10/2022	Granted	CITRIX SYSTEMS, INC.
RESTRICTED ACCESS TO SENSITIVE CONTENT	16/725295	20210194888	12/23/2019	—	Pending	CITRIX SYSTEMS, INC.
ENHANCED OUT-OF-OFFICE SYSTEM AND METHODS FOR EMAIL CLIENTS	16/724566	20210192458	12/23/2019	—	Pending	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DYNAMICALLY GENERATING VISUALIZATIONS OF DATA BASED ON CORRELATION MEASURES AND SEARCH HISTORY	16/722575	20210194783	12/20/2019	—	Pending	CITRIX SYSTEMS, INC.
SERVICE GRAPHS FOR CANARY DEPLOYMENT SYSTEMS AND METHODS	16/719105	11281447	12/18/2019	3/22/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS TO RUN USER SPACE NETWORK STACK INSIDE DOCKER CONTAINER WHILE BYPASSING CONTAINER LINUX NETWORK STACK	16/717009	20200127971	12/17/2019	—	Pending	CITRIX SYSTEMS, INC.
SYSTEM FOR PREVENTING ACCESS TO SENSITIVE INFORMATION AND RELATED TECHNIQUES	16/716761	20210182440	12/17/2019	—	Pending	CITRIX SYSTEMS, INC.
CONTEXT-AWARE OBFUSCATION AND UNOBFUSCATION OF SENSITIVE CONTENT	16/716669	20210182439	12/17/2019	—	Pending	CITRIX SYSTEMS, INC.
CPU AND PRIORITY BASED EARLY DROP PACKET PROCESSING SYSTEMS AND METHODS	16/716040	20210184977	12/16/2019	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DETECTING SECURITY INCIDENTS	16/714240	20210152571	12/13/2019	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR REDUCING CONNECTION SETUP LATENCY	16/713702	11272014	12/13/2019	3/8/2022	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0402

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR MACHINE LEARNING BASED EQUIPMENT MAINTENANCE SCHEDULING	16/712531	11409512	12/12/2019	8/2/2022	Granted	CITRIX SYSTEMS, INC.
LOOPBACK MODE FOR BYPASSING A CAMERA OF AN APPARATUS	16/712437	11205060	12/12/2019	12/21/2021	Granted	CITRIX SYSTEMS, INC.
MULTI-TIER ANALYSIS OF A WORKSPACE PLATFORM FOR IDENTIFYING EXPERT RESOURCES	16/710742	20210182796	12/11/2019	—	Pending	CITRIX SYSTEMS, INC.
APPLICATION AND DEVICE RECOMMENDATION ENGINE	16/710728	20210103831	12/11/2019	—	Pending	CITRIX SYSTEMS, INC.
CONTENT PROTECTION IN ELECTRONIC MESSAGING SYSTEMS	16/708873	20210126907	12/10/2019	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PERSISTENCE ACROSS APPLICATIONS USING A CONTENT SWITCHING SERVER	16/705900	11394772	12/6/2019	7/19/2022	Granted	CITRIX SYSTEMS, INC.
NORMALIZING CLOUD RESOURCE INTERACTION FOR A SUITE OF MULTI-TENANT PRODUCTS ACROSS DISPARATE OBJECTS AND ACTIONS COMING FROM DIFFERENT CLOUD SERVICES	16/703382	11237886	12/4/2019	2/1/2022	Granted	CITRIX SYSTEMS, INC.
BEHAVIOR-BASED AUTHENTICATION	16/701721	11356455	12/3/2019	6/7/2022	Granted	CITRIX SYSTEMS, INC.

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REEL: 062079 FRAME: 0403

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SECURING A DATA CONNECTION FOR COMMUNICATING BETWEEN TWO END-POINTS	16/696758	11258780	11/26/2019	2/22/2022	Granted	CITRIX SYSTEMS, INC.
METHOD FOR PRIORITIZATION OF INTERNET TRAFFIC BY FINDING APPROPRIATE INTERNET EXIT POINTS	16/696014	11349751	11/26/2019	5/31/2022	Granted	CITRIX SYSTEMS, INC.
INTEGRATING WEB APPLICATIONS WITH LOCAL CLIENT APPLICATIONS IN MULTI-USER CLIENT ENVIRONMENT	16/694260	11363090	11/25/2019	6/14/2022	Granted	CITRIX SYSTEMS, INC.
HIGH-QUALITY ADAPTIVE BITRATE VIDEO THROUGH MULTIPLE LINKS	16/692330	20200092202	11/22/2019	—	Pending	CITRIX SYSTEMS, INC.
SECURE INTER-SERVICE COMMUNICATIONS IN A CLOUD COMPUTING SYSTEM	16/688459	11296892	11/19/2019	4/5/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SECURING USER DOMAIN CREDENTIALS FROM PHISHING ATTACKS	16/686888	20210092155	11/18/2019	—	Pending	CITRIX SYSTEMS, INC.
INTERCEPTED LOADING OF WEB APPLICATIONS	16/685302	20200089508	11/15/2019	—	Pending	CITRIX SYSTEMS, INC.
GENERATING AND MANAGING A COMPOSITE IDENTITY TOKEN FOR MULTI-SERVICE USE	16/684780	20200084036	11/15/2019	—	Allowed	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
REMOTE WEB BROWSING SERVICE	16/684723	20210133274	11/15/2019	—	Pending	CITRIX SYSTEMS, INC.
REAL-TIME SCALABLE VIRTUAL SESSION AND NETWORK ANALYTICS	16/684342	20200162356	11/14/2019	—	Pending	CITRIX SYSTEMS, INC.
REAL-TIME SCALABLE VIRTUAL SESSION AND NETWORK ANALYTICS	16/684298	11303543	11/14/2019	3/12/2022	Granted	CITRIX SYSTEMS, INC.
REAL-TIME SCALABLE VIRTUAL SESSION AND NETWORK ANALYTICS	16/684288	11258680	11/14/2019	2/22/2022	Granted	CITRIX SYSTEMS, INC.
REAL-TIME SCALABLE VIRTUAL SESSION AND NETWORK ANALYTICS	16/684244	11271828	11/14/2019	3/8/2022	Granted	CITRIX SYSTEMS, INC.
DISTRIBUTED FILE LOCKING FOR A NETWORK FILE SHARE	16/678463	20200356534	11/8/2019	—	Pending	CITRIX SYSTEMS, INC.
MULTIPLE IDENTITY PROVIDER AUTHENTICATION SYSTEM	16/669992	20210136058	10/31/2019	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR GENERATING DATA STRUCTURES FROM BROWSER DATA TO DETERMINE AND INITIATE ACTIONS BASED THEREON	16/669901	20210133257	10/31/2019	—	Pending	CITRIX SYSTEMS, INC.
WATERMARKS FOR TEXT CONTENT	16/669668	20210092255	10/31/2019	—	Pending Issuance	CITRIX SYSTEMS, INC.
AUTOMATING INTEGRATION TEST CASES BY RESOLVING TEST CASE DEPENDENCIES	16/668969	20210133089	10/30/2019	—	Allowed	CITRIX SYSTEMS, INC.

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REEL: 062079 FRAME: 0405

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
FEATURE ENGINEERING FOR WEB-BASED ANOMALY DETECTION	16/666092	20200067948	10/28/2019	—	Pending	CITRIX SYSTEMS, INC.
ADDING AND REMOVING VIRTUAL DISKS REMOTELY TO A STREAMING MACHINE	16/665264	11418566	10/28/2019	8/16/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR USING NAMESPACES TO ACCESS COMPUTING RESOURCES	16/663832	20210006596	10/25/2019	—	Allowed	CITRIX SYSTEMS, INC.
SECURITY RISK LOAD BALANCING SYSTEMS AND METHODS	16/660341	11429421	10/22/2019	8/10/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROBING VIRTUAL, WEB AND SAAS APPLICATIONS	16/660218	20210117306	10/22/2019	—	Pending	CITRIX SYSTEMS, INC.
MULTI-TENANT MULTI-SESSION CATALOGS WITH MACHINE-LEVEL ISOLATION	16/660103	11252228	10/22/2019	2/15/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PREVENTING INFORMATION DISSEMINATION FROM AN IMAGE OF A PUPIL	16/659728	11250258	10/22/2019	2/15/2022	Granted	CITRIX SYSTEMS, INC.
PROXY CONFIGURATION FOR MULTIPLE NETWORKS	16/659324	20210119871	10/21/2019	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PREVENTING REPLAY ATTACKS	16/654867	11336683	10/16/2019	5/17/2022	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SKILL-SET SCORE BASED INTELLIGENT CASE ASSIGNMENT SYSTEM	16/653384	20210110330	10/15/2019	—	Pending	CITRIX SYSTEMS, INC.
CONTROLLING A LOCAL APPLICATION RUNNING ON A USER DEVICE THAT DISPLAYS A TOUCHSCREEN IMAGE ON A TOUCHSCREEN VIA MOUSE INPUT FROM EXTERNAL ELECTRONIC EQUIPMENT	16/653211	20200042110	10/15/2019	—	Allowed	CITRIX SYSTEMS, INC.
DETERMINING USER INTERFACE CONTEXTS FOR REQUESTED RESOURCES	16/599859	20210109895	10/11/2019	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS OF GEOLOCATING AUGMENTED REALITY CONSOLES	16/599638	20210110646	10/11/2019	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR APPLICATION SPECIFIC LOAD BALANCING	16/592049	11343356	10/3/2019	5/24/2022	Granted	CITRIX SYSTEMS, INC.
EMAIL TRACKING	16/591505	20210105237	10/2/2019	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR INTELLIGENT APPLICATION INSTANTIATION	16/590752	20210103447	10/2/2019	—	Allowed	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING STREAMS OF PACKETS VIA INTERMEDIARY DEVICES	16/588638	20200374238	9/30/2019	—	Pending	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR MANAGING STREAMS OF PACKETS VIA INTERMEDIARY DEVICES	16/588616	20200374234	9/30/2019	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING STREAMS OF PACKETS VIA INTERMEDIARY DEVICES	16/588280	20200374233	9/30/2019	—	Allowed	CITRIX SYSTEMS, INC.
GENERATING CONFIGURATION TEMPLATES FOR APPLICATION DELIVERY CONTROL	16/587370	20200374194	9/30/2019	—	Pending	CITRIX SYSTEMS, INC.
GENERATION AND USE OF A DYNAMIC BLOOM FILTER	16/587352	20210097106	9/30/2019	—	Pending	CITRIX SYSTEMS, INC.
POLYTREE QUEUE FOR SYNCHRONIZING DATA WITH A SHARED RESOURCE	16/587125	11316951	9/30/2019	4/26/2022	Granted	CITRIX SYSTEMS, INC.
AUTO-SCALING A POOL OF VIRTUAL DELIVERY AGENTS	16/585498	20210096927	9/27/2019	—	Pending	CITRIX SYSTEMS, INC.
UPDATING THE RECIPIENTS OF A PREVIOUSLY DELIVERED ELECTRONIC MESSAGE	16/584359	20200021543	9/26/2019	—	Pending	CITRIX SYSTEMS, INC.
CONVERSATIONAL AI PLATFORM USING DECLARATIVE GRAPH MODEL	16/581929	11263404	9/25/2019	3/1/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CREDENTIAL CONTROL AMONG A PLURALITY OF CLIENT DEVICES	16/580250	11283785	9/24/2019	3/22/2022	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0408

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
OBJECT SEARCH WITH PAGINATION AND NON-DUPLICATES SUPPORT	16/573324	11210347	9/17/2019	12/28/2021	Granted	CITRIX SYSTEMS, INC.
MULTI-WEB APPLICATION COLLABORATION TECHNIQUES	16/569906	20210081362	9/13/2019	—	Pending	CITRIX SYSTEMS, INC.
WEBRTC API REDIRECTION WITH INTERCEPTION TECHNIQUES	16/561428	11240297	9/5/2019	2/1/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR PROVIDING IMPROVED OPTIMIZATION FOR SECURE SESSION CONNECTIONS	16/561404	11303614	9/5/2019	4/12/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR COMPUTATION OF USER EXPERIENCE SCORE FOR VIRTUAL APPS AND DESKTOP USERS	16/559236	11265389	9/3/2019	3/1/2022	Granted	CITRIX SYSTEMS, INC.
WORKFLOW SYSTEM AND RELATED TECHNIQUES	16/558825	20210065119	9/3/2019	—	Pending	CITRIX SYSTEMS, INC.
UNIFIED EVENT/TASK CREATION FROM AUTO GENERATED ENTERPRISE COMMUNICATION CHANNELS AND NOTIFICATIONS	16/558819	11386400	9/3/2019	7/12/2022	Granted	CITRIX SYSTEMS, INC.
METHOD TO PERSONALIZE WORKSPACE EXPERIENCE BASED ON THE USERS AVAILABLE TIME	16/547052	20200371823	8/21/2019	—	Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0409

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEM AND METHOD FOR CENSORING AGE-INAPPROPRIATE CONTENT IN REAL-TIME	16/546739	20200401710	8/21/2019	—	Pending	CITRIX SYSTEMS, INC.
DESKTOP VIRTUALIZATION WITH A DEDICATED CELLULAR NETWORK CONNECTION FOR CLIENT DEVICES	16/545135	20210058283	8/20/2019	—	Allowed	CITRIX SYSTEMS, INC.
SEARCHING SAAS VIRTUAL APPLICATIONS	16/532959	20210004425	8/6/2019	—	Pending	CITRIX SYSTEMS, INC.
AUTOMATIC RESTORE FOR A FAILED VIRTUAL COMPUTING SESSION	16/532733	11449393	8/6/2019	9/20/2022	Granted	CITRIX SYSTEMS, INC.
CLIENT DEVICE CONFIGURATION FOR REMOTE DIGITAL WORKSPACE ACCESS	16/524493	20210037015	7/29/2019	—	Pending	CITRIX SYSTEMS, INC.
DESKTOP VIRTUALIZATION WITH LINKED POWER MANAGEMENT TO CLIENT DEVICES	16/524365	20210034389	7/29/2019	—	Pending	CITRIX SYSTEMS, INC.
CONTROLLING ACCESS TO PROTECTED RESOURCE USING A HEAT MAP	16/524319	11272368	7/29/2019	3/8/2022	Granted	CITRIX SYSTEMS, INC.
QUERY GENERATION USING NATURAL LANGUAGE INPUT	16/520512	11347802	7/24/2019	5/31/2022	Granted	CITRIX SYSTEMS, INC.
PASSWORD ENCRYPTION FOR HYBRID CLOUD SERVICES	16/519243	20190349341	7/23/2019	—	Pending	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SELECTIVE ENCRYPTION OF TUNNELED ENCRYPTED TRAFFIC	16/517146	11349820	7/19/2019	5/31/2022	Granted	CITRIX SYSTEMS, INC.
INTELLIGENT FILE RECOMMENDATION ENGINE	16/515432	20200293491	7/18/2019	—	Allowed	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR PROCESSING NETWORK DATA	16/515344	11245600	7/18/2019	2/8/2022	Granted	CITRIX SYSTEMS, INC.
FILE DOWNLOAD USING DEDUPLICATION TECHNIQUES	16/512724	20210019285	7/16/2019	—	Pending	CITRIX SYSTEMS, INC.
TECHNIQUES INVOLVING A SECURITY HEAT MAP	16/481533	11381577	3/29/2019	7/5/2022	Granted	CITRIX SYSTEMS, INC.
METHOD OF DETECTING USER INTERFACE LAYOUT ISSUES FOR WEB APPLICATIONS	16/462724	20210103515	12/10/2018	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DEVELOPMENT OF WEB PRODUCTS	16/462272	11222091	12/27/2018	1/11/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEM WITH REAL-TIME DETECTION AND RESOLUTION OF CONFLICTS FOR SHARED RESOURCES	16/461171	20200394570	12/29/2018	—	Pending	CITRIX SYSTEMS, INC.
ADAPTIVE IDENTIFICATION SYSTEMS AND METHODS	16/456389	20200374119	6/28/2019	—	Pending	CITRIX SYSTEMS, INC.

PATENT
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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
UNIFIED ACCESSIBILITY SETTINGS FOR INTELLIGENT WORKSPACE PLATFORMS	16/455027	11332449	6/27/2019	5/3/2022	Granted	CITRIX SYSTEMS, INC.
UNIFIED APPLICATION NOTIFICATION FRAMEWORK	16/448569	11249785	6/21/2019	2/15/2022	Granted	CITRIX SYSTEMS, INC.
DYNAMIC CERTIFICATE PINNING SYSTEMS AND METHODS	16/446437	20200403811	6/19/2019	—	Allowed	CITRIX SYSTEMS, INC.
IDENTIFICATION AND RECOMMENDATION OF FILE CONTENT SEGMENTS	16/446112	11216415	6/19/2019	1/4/2022	Granted	CITRIX SYSTEMS, INC.
EYE AND HEAD TRACKING AUTHENTICATION	16/443999	20200401686	6/18/2019	—	Allowed	CITRIX SYSTEMS, INC.
ON-DEMAND APPLICATIONS	16/441417	11226837	6/14/2019	1/18/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CONTROLLING DELIVERY OF NOTIFICATIONS ON A PER USER BASIS	16/440523	20200394084	6/13/2019	—	Pending	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR CONNECTING DEVICES TO APPLICATIONS AND DESKTOPS THAT ARE RECEIVING MAINTENANCE	16/439403	11303704	6/12/2019	4/12/2022	Granted	CITRIX SYSTEMS, INC.
NOTIFICATION TAGGING FOR A WORKSPACE OR APPLICATION	16/436372	11307910	6/10/2019	4/19/2022	Granted	CITRIX SYSTEMS, INC.

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
WEB PAGE DUPLICATION	16/436090	20200311176	6/10/2019	—	Pending	CITRIX SYSTEMS, INC.
SECURE WEB APPLICATION DELIVERY PLATFORM	16/435005	11252148	6/7/2019	2/15/2022	Granted	CITRIX SYSTEMS, INC.
SECURE WEB APPLICATION DELIVERY PLATFORM	16/434989	11252147	6/7/2019	2/15/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ESTABLISHING A CHANNEL BETWEEN MULTIPLE DEVICES	16/417353	11381610	5/20/2019	7/5/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR AGGREGATING SKILLS PROVIDED BY A PLURALITY OF DIGITAL ASSISTANTS	16/416801	11290574	5/20/2019	3/29/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS PROVIDING CONNECTION LEASE ANTI-THEFT FEATURES FOR VIRTUAL COMPUTING SESSIONS	16/416452	11212113	5/20/2019	12/28/2021	Granted	CITRIX SYSTEMS, INC.
APPLYING POLICIES TO APIS FOR SERVICE GRAPH	16/415857	11411974	5/17/2019	8/9/2022	Granted	CITRIX SYSTEMS, INC.
DETECT AND ENFORCE API SLAS USING CLOUD ACCESS API BROKER	16/415850	20200366572	5/17/2019	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR VISUALIZING DEPENDENCY EXPERIMENTS	16/415798	20200366573	5/17/2019	—	Pending	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
DEPENDENCY API CONTROLLED EXPERIMENT DASHBOARD	16/415789	11416362	5/17/2019	8/16/2022	Granted	CITRIX SYSTEMS, INC.
API DEPENDENCY ERROR AND LATENCY INJECTION	16/415688	11323348	5/17/2019	5/3/2022	Granted	CITRIX SYSTEMS, INC.
DISPLAYING A SERVICE GRAPH OF MICROSERVICES BASED AT LEAST ON A NAMESPACE	16/415157	20200366571	5/17/2019	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR USING AN ERROR BUDGET FOR MONITORING PERFORMANCE OF A SERVICE LEVEL OF A SERVICE	16/415099	11374828	5/17/2019	6/28/2022	Granted	CITRIX SYSTEMS, INC.
DISPLAYING A SERVICE GRAPH OF MICROSERVICES BASED ON A RING OF CRITICALITY	16/415084	11310345	5/17/2019	4/19/2022	Granted	CITRIX SYSTEMS, INC.
DISPLAYING A SERVICE GRAPH IN ASSOCIATION WITH A TIME OF A DETECTED ANOMALY	16/414655	20200364128	5/16/2019	—	Pending Issuance	CITRIX SYSTEMS, INC.
RESOURCE APPROPRIATION IN A MULTI-TENANT ENVIRONMENT USING RISK AND VALUE MODELING SYSTEMS AND METHODS	16/410609	11297067	5/13/2019	4/5/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR VIRTUAL MEETINGS	16/408591	11271762	5/10/2019	3/8/2022	Granted	CITRIX SYSTEMS, INC.
STACK-BASED COMMUNICATIONS SYSTEMS AND METHODS	16/407571	11385910	5/9/2019	7/12/2022	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0414

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR SECURING OFFLINE DATA	16/406910	11310034	5/8/2019	4/19/2022	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR ACCESSING REMOTELY STORED FILES USING VIRTUAL APPLICATIONS	16/405280	20200356309	5/7/2019	—	Pending	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR ACCESSING REMOTELY STORED FILES USING VIRTUAL APPLICATIONS	16/405274	11303641	5/7/2019	4/12/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ADDING WATERMARKS USING AN EMBEDDED BROWSER	16/403007	11403373	5/3/2019	8/2/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR TRAFFIC INSPECTION VIA AN EMBEDDED BROWSER	16/402935	11265337	5/3/2019	3/1/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROVIDING DATA LOSS PREVENTION VIA AN EMBEDDED BROWSER	16/402899	11328077	5/3/2019	5/10/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PRESENTING WORKSPACE EXPERIENCE INDICATOR ON USER INTERFACE	16/400803	20200351183	5/1/2019	—	Granted	CITRIX SYSTEMS, INC.
SYSTEM AND METHOD FOR IMPROVED ACCESSING OF A SHARED OBJECT	16/399189	20200351277	4/30/2019	—	Pending	CITRIX SYSTEMS, INC.

PATENT
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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
ENHANCING EMPLOYEE ENGAGEMENT USING INTELLIGENT WORKSPACES	16/387055	11386441	4/17/2019	7/12/2022	Granted	CITRIX SYSTEMS, INC.
METHODS AND SYSTEMS FOR CACHING AND SEARCHING FOR SEARCH RESULTS	16/385465	20200334317	4/16/2019	—	Pending	CITRIX SYSTEMS, INC.
ERROR REMEDIATION SYSTEMS AND METHODS	16/381389	11249833	4/11/2019	2/15/2022	Granted	CITRIX SYSTEMS, INC.
SESSION TRIAGE AND REMEDIATION SYSTEMS AND METHODS	16/381387	11249832	4/11/2019	2/15/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR ACCESS TO MULTI-TENANT HETEROGENEOUS DATABASES	16/381362	11216482	4/11/2019	1/4/2022	Granted	CITRIX SYSTEMS, INC.
COMPUTER-IMPLEMENTED METHODS AND SYSTEMS FOR DETERMINING APPLICATION MATCHING STATUS	16/377632	20190235990	4/8/2019	8/24/2022	Granted	CITRIX SYSTEMS, INC.
ENHANCED FILE SHARING SYSTEMS AND METHODS	16/376026	11381657	4/5/2019	7/5/2022	Granted	CITRIX SYSTEMS, INC.
SELECTING A MODE OF DELIVERY TO PROVIDE ACCESS TO A FILE SYSTEMS AND METHODS	16/374303	11349904	4/3/2019	5/31/2022	Granted	CITRIX SYSTEMS, INC.
AUTHENTICATION FOR SECURE FILE SHARING	16/371406	20200314104	4/1/2019	—	Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0416

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SECURITY DEVICE SELECTION BASED ON SECURE CONTENT DETECTION	16/369648	11201889	3/29/2019	12/14/2021	Granted	CITRIX SYSTEMS, INC.
PROVIDING USER INTERFACE (UI) ELEMENTS HAVING AN ORDERED HIERARCHY OF GRAPHICAL CONTROL ELEMENTS IN VIRTUAL MACHINE SESSIONS AT REDUCED LATENCY AND RELATED METHODS	16/365773	11281478	3/27/2019	3/22/2022	Granted	CITRIX SYSTEMS, INC.
PROVIDING USER INTERFACE (UI) ELEMENTS HAVING SCROLLABLE CONTENT IN VIRTUAL MACHINE SESSIONS AT REDUCED LATENCY AND RELATED METHODS	16/365753	11263029	3/27/2019	3/1/2022	Granted	CITRIX SYSTEMS, INC.
PROVIDING USER INTERFACE (UI) ELEMENTS IN VIRTUAL MACHINE SESSIONS AT REDUCED LATENCY	16/365739	11263028	3/27/2019	3/1/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR PROTECTING A REMOTELY HOSTED APPLICATION FROM MALICIOUS ATTACKS	16/348583	11347842	4/3/2019	5/31/2022	Granted	CITRIX SYSTEMS, INC.
CONTROLLING FROM A MOBILE DEVICE A GRAPHICAL POINTER DISPLAYED AT A LOCAL COMPUTING DEVICE	16/340766	—	4/10/2019	—	Unpublished	CITRIX SYSTEMS, INC.
PROVIDING A VIRTUAL DESKTOP WITHIN A COMPUTING ENVIRONMENT	16/322304	11237854	10/22/2018	2/1/2022	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0417

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEM AND METHOD OF PRE-ESTABLISHING SSL SESSION CONNECTIONS FOR FASTER SSL CONNECTION ESTABLISHMENT	16/297873	20190207979	3/11/2019	—	Pending	CITRIX SYSTEMS, INC.
AUTOMATIC GENERATION OF RIDES FOR RIDESHARING FOR EMPLOYEES OF AN ORGANIZATION BASED ON THEIR HOME AND WORK ADDRESS, USER PREFERENCES	16/295899	20200286199	3/7/2019	—	Pending	CITRIX SYSTEMS, INC.
PRE-AUTHORIZATION FOR SERVICE-TO-SERVICE REQUESTS	16/292786	11336640	3/5/2019	5/17/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MONITORING SECURITY OF AN ORGANIZATION BASED ON A NORMALIZED RISK SCORE	16/283260	20200045064	2/22/2019	—	Pending Issuance	CITRIX SYSTEMS, INC.
PROACTIVE LINK LOAD BALANCING TO MAINTAIN QUALITY OF LINK	16/277288	11296949	2/15/2019	4/5/2022	Granted	CITRIX SYSTEMS, INC.
AUTOMATIC ONLINE MEETING ASSIGNMENT TRIGGERED BY USER LOCATION	16/273846	20200258051	2/12/2019	—	Pending	CITRIX SYSTEMS, INC.
ACCESSING ENCRYPTED USER DATA AT A MULTI-TENANT HOSTED CLOUD SERVICE	16/273484	11403412	2/12/2019	8/2/2022	Granted	CITRIX SYSTEMS, INC.
DATA MIGRATION ACROSS SAAS APPLICATIONS	16/266209	20200250262	2/4/2019	—	Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0418

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SECURE SIGN-ON USING PERSONAL AUTHENTICATION TAG	16/264198	11323431	1/31/2019	5/3/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CONFIGURING THE USER INTERFACE OF A MOBILE DEVICE	16/264056	11385784	1/31/2019	7/12/2022	Granted	CITRIX SYSTEMS, INC.
FILE CONFLICT DETECTION	16/262496	11409716	1/30/2019	8/9/2022	Granted	CITRIX SYSTEMS, INC.
PROVIDING APPLICATION SECURITY, VALIDATION AND PROFILING TO AN APPLICATION	16/256142	20200242251	1/24/2019	—	Pending	CITRIX SYSTEMS, INC.
COMPUTING SYSTEM WITH GATEWAY DATA TRANSFER BASED UPON DEVICE DATA FLOW CHARACTERISTICS AND RELATED METHODS	16/252809	20200236084	1/21/2019	—	Allowed	CITRIX SYSTEMS, INC.
COMPUTING SYSTEM WITH DATA TRANSFER BASED UPON DEVICE DATA FLOW CHARACTERISTICS AND RELATED METHODS	16/252801	20200236196	1/21/2019	—	Granted	CITRIX SYSTEMS, INC.
SCENARIO BASED MULTIPLE APPLICATIONS ON-SCREEN	16/252194	11226850	1/18/2019	1/18/2022	Granted	CITRIX SYSTEMS, INC.
RESOURCE SCALING FOR DISTRIBUTED DATABASE SERVICES	16/244575	11294930	1/10/2019	4/5/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEM FOR PROVIDING A SERVICE BASED UPON AUTHORIZATION	16/242649	20200084205	1/8/2019	—	Allowed	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0419

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
TOKEN AND VIRTUAL ASSISTANT AND RELATED METHODS						
DEPLOYING AND IMPLEMENTING ENTERPRISE POLICIES THAT CONTROL AUGMENTED REALITY COMPUTING FUNCTIONS	16/239623	11392876	1/4/2019	7/19/2022	Granted	CITRIX SYSTEMS, INC.
ENHANCE A MAIL APPLICATION TO GENERATE A WEEKLY STATUS REPORT	16/232444	20200210483	12/26/2018	—	Pending	CITRIX SYSTEMS, INC.
FLOWCHART-STYLE DIAGRAMMING TOOL TO BUILD AUTOMATED WORKFLOWS	16/227134	11281364	12/20/2018	3/22/2022	Granted	CITRIX SYSTEMS, INC.
PROVIDING MICRO FIREWALL LOGIC TO A MOBILE APPLICATION	16/224075	11228563	12/18/2018	1/18/2022	Granted	CITRIX SYSTEMS, INC.
CONSOLIDATED IDENTITY	16/221376	11316860	12/14/2018	4/26/2022	Granted	CITRIX SYSTEMS, INC.
MOBILE AUDITABLE AND TAMPER-RESISTANT DIGITAL-SYSTEM USAGE TRACKING AND ANALYTICS	16/216426	11354300	12/11/2018	6/7/2022	Granted	CITRIX SYSTEMS, INC.
METHOD FOR SECURELY NEGOTIATING END-TO-END CRYPTOGRAPHIC CONTEXT USING INLINE MESSAGES THROUGH MULTIPLE PROXIES IN CLOUD AND CUSTOMER ENVIRONMENT	16/210840	20200186502	12/5/2018	—	Allowed	CITRIX SYSTEMS, INC.
APPLYING APPLICATION LAYER POLICY TO TRANSPORT LAYER	16/203120	11336693	11/28/2018	5/17/2022	Granted	CITRIX SYSTEMS, INC.

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REEL: 062079 FRAME: 0420

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SECURITY REQUESTS SYSTEMS AND METHODS						
PREDICTIVE MODEL BASED ON DIGITAL FOOTPRINTS OF WEB APPLICATIONS	16/202400	20200167666	11/28/2018	—	Pending	CITRIX SYSTEMS, INC.
WEBFORM GENERATION AND POPULATION	16/202333	20200167414	11/28/2018	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CHECKING COMPATIBILITY OF SAAS APPS FOR DIFFERENT BROWSERS	16/193947	20200162359	11/16/2018	—	Pending	CITRIX SYSTEMS, INC.
APPROACH FOR A CONTROLLABLE TRADE-OFF BETWEEN COST AND AVAILABILITY OF INDEXED DATA IN A CLOUD LOG AGGREGATION SOLUTION SUCH AS SPLUNK OR SUMO	16/193388	11429566	11/16/2018	8/10/2022	Granted	CITRIX SYSTEMS, INC.
AUTHENTICATING TO A HYBRID CLOUD USING INTRANET CONNECTIVITY AS SILENT AUTHENTICATION FACTOR	16/190954	11258756	11/14/2018	2/22/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR TRACKING OVERLAY FOR SAAS APPLICATIONS	16/190811	20200153711	11/14/2018	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR TRAFFIC ACCOUNTING FOR SAAS USAGE	16/188454	20200153719	11/13/2018	—	Pending Issuance	CITRIX SYSTEMS, INC.

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REEL: 062079 FRAME: 0421

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SYSTEMS AND METHODS FOR LIVE TILES FOR SAAS	16/188166	11226727	11/12/2018	1/28/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR RICH INPUT INTO TEXT FIELDS USING AN EMBEDDED BROWSER	16/185898	20200151243	11/9/2018	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MACHINE GENERATED TRAINING AND IMITATION LEARNING	16/185767	20200151617	11/9/2018	—	Allowed	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR A SAAS LENS TO VIEW OBFUSCATED CONTENT	16/185724	11450069	11/9/2018	9/20/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR A PRIVACY SCREEN FOR SECURE SAAS APPLICATIONS	16/184696	20200151348	11/8/2018	—	Allowed	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR COLLABORATING ON FORMS IN SAAS APPLICATION	16/184311	11233832	11/8/2018	1/25/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR CONTEXTUAL AND ADMINISTRATOR CONTROLLED BROWSER CONTROL BAR	16/183154	20200142544	11/7/2018	8/10/2022	Granted	CITRIX SYSTEMS, INC.
DYNAMICALLY CHANGE USER INTERFACES FOR WEB APPLICATIONS AND ASSOCIATED METHODS	16/169155	20200134099	10/24/2018	—	Pending	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0422

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
COMPUTING SYSTEM WITH REVISED NOTIFICATION MESSAGES AND RELATED METHODS	16/162654	20200125655	10/17/2018	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR TRAFFIC OPTIMIZATION VIA SYSTEM ON CHIP OF INTERMEDIARY DEVICE	16/157867	11314532	10/11/2018	4/26/2022	Granted	CITRIX SYSTEMS, INC.
COMPUTING SYSTEM PROVIDING SAAS APPLICATION ACCESS WITH DIFFERENT CAPABILITIES BASED UPON USER PERSONAS	16/156256	11336645	10/10/2018	5/17/2022	Granted	CITRIX SYSTEMS, INC.
PROCESSING POLICY VARIANCE REQUESTS IN AN ENTERPRISE COMPUTING ENVIRONMENT	16/156090	11388199	10/10/2018	7/12/2022	Granted	CITRIX SYSTEMS, INC.
REFLECTION BASED ENDPOINT SECURITY TEST FRAMEWORK	16/150370	11366883	10/3/2018	6/21/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SLOGAN BASED SHARING OF LIVING SAAS OBJECTS	16/148447	11228583	10/1/2018	1/18/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MULTILINK WAN CONNECTIVITY FOR SAAS APPLICATIONS	16/148425	20200106699	10/1/2018	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR OFFLINE USAGE OF SAAS APPLICATIONS	16/148375	11354400	10/1/2018	6/7/2022	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0423

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
ENCRYPTION OF KEYBOARD DATA TO AVOID BEING READ BY ENDPOINT-HOSTED KEYLOGGER APPLICATIONS	16/144317	20200104538	9/27/2018	8/10/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR BRIDGE PROTOCOL BETWEEN DIVERSE APPLICATIONS	16/139829	20200099738	9/24/2018	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DEEP LINKING OF SAAS APPLICATION VIA EMBEDDED BROWSER	16/138622	11275811	9/21/2018	3/15/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR IMPROVED REMOTE DISPLAY PROTOCOL FOR HTML APPLICATIONS	16/129015	11281744	9/12/2018	3/22/2022	Granted	CITRIX SYSTEMS, INC.
SERVICE POOL ARCHITECTURE FOR MULTITENANT SERVICES TO SUPPORT CANARY RELEASE	16/110370	11237815	8/23/2018	2/1/2022	Granted	CITRIX SYSTEMS, INC.
DISTRIBUTED SECURITY ANALYSIS FOR SHARED CONTENT	16/101841	11294865	8/13/2018	4/5/2022	Granted	CITRIX SYSTEMS, INC.
SECURE METHOD TO REPLICATE ON-PREMISE SECRETS IN A CLOUD ENVIRONMENT	16/056848	20200053059	8/7/2018	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR MANAGING RELEASES OF GLOBAL SERVICES IN A CONTROLLED MANNER	16/053563	20200042298	8/2/2018	—	Pending Issuance	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0424

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
SELECTING ATTACHMENTS FOR ELECTRONIC MAIL MESSAGES	16/051758	20200045001	8/1/2018	—	Pending Issuance	CITRIX SYSTEMS, INC.
MIXED INSTANCE CATALOGS	16/043747	20200034168	7/24/2018	—	Allowed	CITRIX SYSTEMS, INC.
SINGLE-SIGN-ON FOR THIRD PARTY MOBILE APPLICATIONS	16/028515	11245683	7/6/2018	2/8/2022	Granted	CITRIX SYSTEMS, INC.
INTERMEDIATED RETRIEVAL OF NETWORKED CONTENT	16/016848	20190394255	6/25/2018	—	Pending	CITRIX SYSTEMS, INC.
INCREASED PACKET SCHEDULING THROUGHPUT AND EFFICIENCY USING ÃŒBER BATCHING	16/007560	11381509	6/13/2018	7/5/2022	Granted	CITRIX SYSTEMS, INC.
IOT TOPOLOGY ANALYZER DEFINING AN IOT TOPOLOGY AND ASSOCIATED METHODS	16/007016	11245589	6/13/2018	2/8/2022	Granted	CITRIX SYSTEMS, INC.
CLOUD WORKSPACE ASSIGNMENT BY USER LOCATION	15/943180	20190303816	4/2/2018	—	Pending	CITRIX SYSTEMS, INC.
MICROAPP SUBSCRIPTION RECOMMENDATIONS	15/931747	11321404	5/14/2020	5/3/2022	Granted	CITRIX SYSTEMS, INC.
MALICIOUS EVENT DETECTION IN COMPUTING ENVIRONMENTS	15/930770	20210334375	5/13/2020	—	Pending	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DETECTING AND THWARTING ATTACKS ON AN IT ENVIRONMENT	15/900032	11277421	2/20/2018	3/15/2022	Granted	CITRIX SYSTEMS, INC.

PATENT
REEL: 062079 FRAME: 0425

Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
LIVE ZERO DOWNTIME MIGRATION OF DATABASES WITH DISPARATE SCHEMATA	15/895980	11347701	2/13/2018	5/31/2022	Granted	CITRIX SYSTEMS, INC.
DATA ANALYTICS FOR INTERNATIONAL PRODUCT QUALITY AND USER EXPERIENCE	15/889923	11354684	2/6/2018	6/7/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR AUTHENTICATING DEVICE USERS THROUGH BEHAVIORAL ANALYSIS	15/884993	20190236249	1/31/2018	—	Pending	CITRIX SYSTEMS, INC.
INSTANT HYPER-V STREAMING	15/879715	11238015	1/25/2018	2/1/2022	Granted	CITRIX SYSTEMS, INC.
VM CREATION BY INSTALLATION MEDIA PROBE	15/875414	11249780	1/19/2018	2/15/2022	Granted	CITRIX SYSTEMS, INC.
FRIENDLY FINITE SCROLLING FOR THEME DATA PAGINATION	15/872385	11320981	1/16/2018	5/3/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR SOFTWARE TESTING USING A DISPOSABLE CODE	15/840462	20190179736	12/13/2017	8/17/2022	Granted	CITRIX SYSTEMS, INC.
OUT OF BAND LAYER SCRUBBING	15/785849	11263004	10/17/2017	3/1/2022	Granted	CITRIX SYSTEMS, INC.
CLOUD SERVICES MANAGEMENT	15/661395	11366832	7/27/2017	6/21/2022	Granted	CITRIX SYSTEMS, INC.
ABSTRACT QUERY PROCESSING USING METADATA ON MULTIPLE COMPLEX DATA SOURCES	15/661325	20190034496	7/27/2017	—	Pending	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
VIRTUAL MACHINE POWER MANAGEMENT	15/653697	11347295	7/19/2017	5/31/2022	Granted	CITRIX SYSTEMS, INC.
AUTOMATIC WORKFLOW-BASED DEVICE SWITCHING	15/629118	11385930	6/21/2017	7/12/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR DYNAMIC FLEXIBLE AUTHENTICATION IN A CLOUD SERVICE	15/626881	20180367526	6/19/2017	—	Pending Issuance	CITRIX SYSTEMS, INC.
DATA PROCESSING SYSTEM WITH SYNCHRONIZATION OF LOCAL DIRECTORY INFORMATION TO CLOUD SYSTEM	15/616052	20180357294	6/7/2017	8/10/2022	Granted	CITRIX SYSTEMS, INC.
METRICS-BASED VIRTUAL MACHINE SNAPSHOTS	15/602715	11288089	5/23/2017	3/29/2022	Granted	CITRIX SYSTEMS, INC.
COMPUTER SYSTEM PROVIDING ANOMALY DETECTION WITHIN A VIRTUAL COMPUTING SESSIONS AND RELATED METHODS	15/596144	11394731	5/16/2017	7/19/2022	Granted	CITRIX SYSTEMS, INC.
SYSTEMS AND METHODS FOR NORMALIZING IDENTITY CLAIMS ACROSS DISPARATE IDENTITY DIRECTORIES	15/585897	20180322183	5/3/2017	—	Pending	CITRIX SYSTEMS, INC.
APPLICATION DISPLAY AND DISCOVERY BY PREDICTING BEHAVIOR THROUGH MACHINE-LEARNING	15/497938	11442748	4/26/2017	9/13/2022	Granted	CITRIX SYSTEMS, INC.

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Title	Application Number	Patent / Publication Number	Application Filing Date	Grant Date	Status	Owner
CONFIGURABLE OFFLINE MESSAGING MANAGEMENT USING USER PRESENCE INFORMATION	14/684778	20160301648	4/13/2015	—	Pending	CITRIX SYSTEMS, INC.
CONTAINERIZING WEB APPLICATIONS FOR MANAGED EXECUTION	14/585320	20160191645	12/30/2014	—	Pending	CITRIX SYSTEMS, INC.
PROVIDING REMOTE ACCESS TO APPLICATIONS THROUGH INTERFACE HOOKS	14/324646	11283866	7/7/2014	3/22/2022	Granted	CITRIX SYSTEMS, INC.
PEER TO PEER REMOTE APPLICATION DISCOVERY	14/324580	11310312	7/7/2014	4/19/2022	Granted	CITRIX SYSTEMS, INC.
APPLICATION WRAPPING FOR APPLICATION MANAGEMENT FRAMEWORK	14/055038	20140109072	10/16/2013	—	Pending	CITRIX SYSTEMS, INC.

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