

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6948823

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST

**CONVEYING PARTY DATA**

Name	Execution Date
WEATHERFORD TECHNOLOGY HOLDINGS, LLC	09/30/2021
WEATHERFORD NETHERLANDS B.V.	09/30/2021
WEATHERFORD NORGE AS	09/30/2021
HIGH PRESSURE INTEGRITY, INC.	09/30/2021
PRECISION ENERGY SERVICES, INC.	09/30/2021
WEATHERFORD CANADA LTD.	09/30/2021
WEATHERFORD SWITZERLAND TRADING AND DEVELOPMENT GMBH	09/30/2021
WEATHERFORD U.K. LIMITED	09/30/2021

**RECEIVING PARTY DATA**

<b>Name:</b>	WILMINGTON TRUST, NATIONAL ASSOCIATION
<b>Street Address:</b>	50 SOUTH SIXTH STREET
<b>City:</b>	MINNEAPOLIS
<b>State/Country:</b>	MINNESOTA
<b>Postal Code:</b>	55402

**PROPERTY NUMBERS Total: 2294**

Property Type	Number
Application Number:	13967230
Application Number:	12492526
Application Number:	14226275
Application Number:	16112468
Application Number:	17119857
Application Number:	16504013
Application Number:	17147676
Application Number:	14416909
Application Number:	16220162
Application Number:	16220222
Application Number:	16861807
Application Number:	29614617
Application Number:	29614635

PATENT

<b>Property Type</b>	<b>Number</b>
Application Number:	29679455
Application Number:	16033097
Application Number:	15596301
Application Number:	17075000
Application Number:	16154103
Application Number:	16150549
Application Number:	17106797
Application Number:	15505538
Application Number:	16149417
Application Number:	16997067
Application Number:	15113675
Application Number:	14876308
Application Number:	16404106
Application Number:	16859952
Application Number:	15006562
Application Number:	15688609
Application Number:	16268029
Application Number:	17028548
Application Number:	17103187
Application Number:	16729979
Application Number:	17094472
Application Number:	15273048
Application Number:	16907949
Application Number:	14947919
Application Number:	15005809
Application Number:	17002878
Application Number:	16361754
Application Number:	17219604
Application Number:	16532771
Application Number:	16330175
Application Number:	15291250
Application Number:	16455475
Application Number:	15848377
Application Number:	16927530
Application Number:	15375409
Application Number:	17072926
Application Number:	16411452
Application Number:	16551043

<b>Property Type</b>	<b>Number</b>
Application Number:	17147693
Application Number:	15953030
Application Number:	15345288
Application Number:	16610432
Application Number:	16628234
Application Number:	15799039
Application Number:	15730305
Application Number:	16856201
Application Number:	15448297
Application Number:	16540959
Application Number:	16428923
Application Number:	16965550
Application Number:	15953988
Application Number:	16764876
Application Number:	15607049
Application Number:	17034958
Application Number:	17004582
Application Number:	17022380
Application Number:	15951859
Application Number:	16611464
Application Number:	16621055
Application Number:	15682907
Application Number:	16750896
Application Number:	15698571
Application Number:	16074594
Application Number:	15699592
Application Number:	16109459
Application Number:	16531372
Application Number:	16887716
Application Number:	15712989
Application Number:	16641490
Application Number:	16860185
Application Number:	15841651
Application Number:	16894554
Application Number:	16858676
Application Number:	16963910
Application Number:	16109312
Application Number:	15924009

<b>Property Type</b>	<b>Number</b>
Application Number:	17202482
Application Number:	17046779
Application Number:	15944147
Application Number:	16109071
Application Number:	17381300
Application Number:	17189682
Application Number:	17287014
Application Number:	16026400
Application Number:	15734503
Application Number:	16274952
Application Number:	16511190
Application Number:	16054855
Application Number:	17073251
Application Number:	16210107
Application Number:	16170825
Application Number:	16270426
Application Number:	16220531
Application Number:	17148826
Application Number:	16657572
Application Number:	16779858
Application Number:	17332565
Application Number:	16797148
Application Number:	16797175
Application Number:	16802208
Application Number:	16276658
Application Number:	16372218
Application Number:	16954148
Application Number:	16855492
Application Number:	16400716
Application Number:	16656198
Application Number:	16460867
Application Number:	17334410
Application Number:	16843320
Application Number:	16398480
Application Number:	17192689
Application Number:	16398660
Application Number:	16435529
Application Number:	16850495

<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16529624
<b>Application Number:</b>	16433837
<b>Application Number:</b>	16837034
<b>Application Number:</b>	17207606
<b>Application Number:</b>	16883746
<b>Application Number:</b>	16805941
<b>Application Number:</b>	16805297
<b>Application Number:</b>	16916279
<b>Application Number:</b>	16523616
<b>Application Number:</b>	16554465
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<b>Application Number:</b>	16539645
<b>Application Number:</b>	16539305
<b>Application Number:</b>	17203968
<b>Application Number:</b>	16552878
<b>Application Number:</b>	16782498
<b>Application Number:</b>	16818784
<b>Application Number:</b>	16654672
<b>Application Number:</b>	16911211
<b>Application Number:</b>	16996492
<b>Application Number:</b>	16596463
<b>Application Number:</b>	16888318
<b>Application Number:</b>	16836578
<b>Application Number:</b>	16773766
<b>Application Number:</b>	15931436
<b>Application Number:</b>	16874266
<b>Application Number:</b>	17229212
<b>Application Number:</b>	16874405
<b>Application Number:</b>	16854517
<b>Application Number:</b>	16849266
<b>Application Number:</b>	16879493
<b>Application Number:</b>	16993240
<b>Application Number:</b>	16896185
<b>Application Number:</b>	17085910
<b>Application Number:</b>	17157552
<b>Application Number:</b>	16894482
<b>Application Number:</b>	17085859
<b>Application Number:</b>	17065298

<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16891276
<b>Application Number:</b>	17216313
<b>Application Number:</b>	17066339
<b>Application Number:</b>	17175574
<b>Application Number:</b>	17126599
<b>Application Number:</b>	17145137
<b>Application Number:</b>	16951562
<b>Application Number:</b>	17242439
<b>Application Number:</b>	63110649
<b>Application Number:</b>	63110659
<b>Application Number:</b>	17103838
<b>Application Number:</b>	17159362
<b>Application Number:</b>	17184628
<b>Application Number:</b>	17193149
<b>Application Number:</b>	17344068
<b>Application Number:</b>	63215008
<b>Application Number:</b>	63231880
<b>Application Number:</b>	09808621
<b>Application Number:</b>	10053041
<b>Application Number:</b>	09940067
<b>Application Number:</b>	09940865
<b>Application Number:</b>	09976129
<b>Application Number:</b>	09997221
<b>Application Number:</b>	10036737
<b>Application Number:</b>	09972390
<b>Application Number:</b>	09917960
<b>Application Number:</b>	09995842
<b>Application Number:</b>	10053043
<b>Application Number:</b>	10032981
<b>Application Number:</b>	09983461
<b>Application Number:</b>	10078199
<b>Application Number:</b>	10191710
<b>Application Number:</b>	10011049
<b>Application Number:</b>	10106178
<b>Application Number:</b>	10186382
<b>Application Number:</b>	10032644
<b>Application Number:</b>	10097448
<b>Application Number:</b>	10114923

<b>Property Type</b>	<b>Number</b>
Application Number:	10037529
Application Number:	09931332
Application Number:	10154437
Application Number:	10060029
Application Number:	09997134
Application Number:	10324412
Application Number:	10293708
Application Number:	10095124
Application Number:	10165613
Application Number:	10346015
Application Number:	10284173
Application Number:	10208724
Application Number:	09990772
Application Number:	10153199
Application Number:	10339102
Application Number:	10154489
Application Number:	10268007
Application Number:	10347527
Application Number:	10317843
Application Number:	10157743
Application Number:	10392493
Application Number:	10441234
Application Number:	10207383
Application Number:	10259803
Application Number:	10389561
Application Number:	10211252
Application Number:	10259218
Application Number:	10138253
Application Number:	10331964
Application Number:	10321288
Application Number:	10227148
Application Number:	10427335
Application Number:	10393170
Application Number:	10666314
Application Number:	10347132
Application Number:	09931552
Application Number:	10207542
Application Number:	10360547

<b>Property Type</b>	<b>Number</b>
Application Number:	10151475
Application Number:	09996626
Application Number:	10319792
Application Number:	10328708
Application Number:	10277177
Application Number:	10364311
Application Number:	10127021
Application Number:	10315666
Application Number:	10335979
Application Number:	10307094
Application Number:	10267944
Application Number:	10730716
Application Number:	10276901
Application Number:	10852443
Application Number:	10348040
Application Number:	10619936
Application Number:	10335957
Application Number:	10452124
Application Number:	10642402
Application Number:	10441233
Application Number:	10895613
Application Number:	10265026
Application Number:	10438763
Application Number:	10610309
Application Number:	10010183
Application Number:	10349501
Application Number:	10805914
Application Number:	10384269
Application Number:	10641402
Application Number:	10296079
Application Number:	10600037
Application Number:	10348608
Application Number:	10794800
Application Number:	10339375
Application Number:	11168809
Application Number:	10933132
Application Number:	10775273
Application Number:	11028974



<b>Property Type</b>	<b>Number</b>
Application Number:	10348445
Application Number:	10159176
Application Number:	10350157
Application Number:	10285336
Application Number:	10393557
Application Number:	10372631
Application Number:	10772091
Application Number:	10779478
Application Number:	10342052
Application Number:	10726027
Application Number:	10339367
Application Number:	11158298
Application Number:	10616061
Application Number:	10251635
Application Number:	11264400
Application Number:	10458773
Application Number:	11109387
Application Number:	10270015
Application Number:	10432128
Application Number:	10693185
Application Number:	10788976
Application Number:	10237565
Application Number:	10463238
Application Number:	10680725
Application Number:	10862006
Application Number:	10862004
Application Number:	10850349
Application Number:	10482061
Application Number:	10781585
Application Number:	11074127
Application Number:	10616455
Application Number:	10307033
Application Number:	10781937
Application Number:	10867960
Application Number:	10306490
Application Number:	10649431
Application Number:	10990174
Application Number:	10433270

<b>Property Type</b>	<b>Number</b>
Application Number:	10848558
Application Number:	11253072
Application Number:	10250850
Application Number:	11106168
Application Number:	11158184
Application Number:	10360546
Application Number:	10737703
Application Number:	10696489
Application Number:	10192784
Application Number:	10636095
Application Number:	10267025
Application Number:	10945568
Application Number:	10407391
Application Number:	10900076
Application Number:	10696766
Application Number:	11050005
Application Number:	11136144
Application Number:	10676376
Application Number:	11023990
Application Number:	10618269
Application Number:	10787846
Application Number:	11065489
Application Number:	10886513
Application Number:	10666088
Application Number:	11152408
Application Number:	10809066
Application Number:	10677135
Application Number:	10869458
Application Number:	10738366
Application Number:	11014620
Application Number:	10733325
Application Number:	10794792
Application Number:	10763577
Application Number:	09586648
Application Number:	10850347
Application Number:	11013863
Application Number:	10496265
Application Number:	11167487

<b>Property Type</b>	<b>Number</b>
Application Number:	11037793
Application Number:	10506128
Application Number:	10853568
Application Number:	10795129
Application Number:	10997930
Application Number:	11021121
Application Number:	11018406
Application Number:	10288229
Application Number:	10510672
Application Number:	10795214
Application Number:	10748695
Application Number:	10818183
Application Number:	10902694
Application Number:	10333763
Application Number:	11012501
Application Number:	11685595
Application Number:	11148405
Application Number:	11052939
Application Number:	11069781
Application Number:	10323536
Application Number:	11382761
Application Number:	11586611
Application Number:	11080663
Application Number:	10977481
Application Number:	11330361
Application Number:	11140184
Application Number:	10888554
Application Number:	10794790
Application Number:	11680920
Application Number:	10866319
Application Number:	10755722
Application Number:	11152409
Application Number:	11614606
Application Number:	11345066
Application Number:	10885824
Application Number:	11468631
Application Number:	11166879
Application Number:	11743808

<b>Property Type</b>	<b>Number</b>
Application Number:	10995980
Application Number:	11180200
Application Number:	11154180
Application Number:	11172214
Application Number:	11101687
Application Number:	11354659
Application Number:	11423909
Application Number:	12119685
Application Number:	11773613
Application Number:	11608143
Application Number:	11740171
Application Number:	11551571
Application Number:	12035578
Application Number:	11306874
Application Number:	11625460
Application Number:	11179868
Application Number:	11377736
Application Number:	11359083
Application Number:	11816421
Application Number:	12269232
Application Number:	11849809
Application Number:	10850354
Application Number:	11611029
Application Number:	12193917
Application Number:	12050655
Application Number:	12034990
Application Number:	11741330
Application Number:	11935860
Application Number:	11848328
Application Number:	11293859
Application Number:	12028401
Application Number:	12128790
Application Number:	11679302
Application Number:	11925498
Application Number:	11550590
Application Number:	11548615
Application Number:	11785446
Application Number:	11794847

<b>Property Type</b>	<b>Number</b>
Application Number:	12154725
Application Number:	11537374
Application Number:	11751841
Application Number:	11744327
Application Number:	12145592
Application Number:	11855577
Application Number:	12369142
Application Number:	12258780
Application Number:	12261661
Application Number:	11834764
Application Number:	11625427
Application Number:	11549500
Application Number:	12058368
Application Number:	11849814
Application Number:	11747849
Application Number:	12234184
Application Number:	11943185
Application Number:	11609709
Application Number:	12023864
Application Number:	11841511
Application Number:	12025294
Application Number:	11940661
Application Number:	11866221
Application Number:	12393741
Application Number:	11672180
Application Number:	12400852
Application Number:	11567994
Application Number:	10848544
Application Number:	12503724
Application Number:	11828887
Application Number:	12251334
Application Number:	10432059
Application Number:	12573723
Application Number:	12208157
Application Number:	12080170
Application Number:	12698772
Application Number:	11368210
Application Number:	12285305

<b>Property Type</b>	<b>Number</b>
Application Number:	12385282
Application Number:	12244341
Application Number:	11919962
Application Number:	12250080
Application Number:	12194349
Application Number:	11957519
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Application Number:	12947586
Application Number:	12813981
Application Number:	11962290
Application Number:	10755708
Application Number:	11567108
Application Number:	13023714
Application Number:	12244946
Application Number:	12128811
Application Number:	12502399
Application Number:	11967384
Application Number:	11842837
Application Number:	12435225
Application Number:	12098341
Application Number:	12484437
Application Number:	12613700
Application Number:	12534499
Application Number:	11088412
Application Number:	12411245
Application Number:	12226577
Application Number:	12861452

<b>Property Type</b>	<b>Number</b>
Application Number:	11623341
Application Number:	12389090
Application Number:	12334193
Application Number:	12613633
Application Number:	12258357
Application Number:	12099659
Application Number:	13087635
Application Number:	12098264
Application Number:	13250287
Application Number:	11750943
Application Number:	11780957
Application Number:	13019176
Application Number:	12335981
Application Number:	13274424
Application Number:	11364122
Application Number:	12436073
Application Number:	12480104
Application Number:	11975946
Application Number:	12429706
Application Number:	12892761
Application Number:	12402316
Application Number:	12490508
Application Number:	12408527
Application Number:	12908664
Application Number:	12643093
Application Number:	12719673
Application Number:	12236591
Application Number:	12905919
Application Number:	13342499
Application Number:	13017805
Application Number:	13403118
Application Number:	12462266
Application Number:	13158018
Application Number:	12852651
Application Number:	12435346
Application Number:	12686941
Application Number:	12961640
Application Number:	12615460

<b>Property Type</b>	<b>Number</b>
Application Number:	13048497
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Application Number:	11764658
Application Number:	12575977
Application Number:	13593844
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Application Number:	12779544
Application Number:	12716035
Application Number:	13495914
Application Number:	13523656
Application Number:	12539517
Application Number:	13608740
Application Number:	13293987
Application Number:	13608784
Application Number:	13452128
Application Number:	12616107
Application Number:	13608767
Application Number:	12439031
Application Number:	12743505
Application Number:	12768882
Application Number:	13009475
Application Number:	13649870
Application Number:	13761953
Application Number:	13848552
Application Number:	13170608
Application Number:	13419966
Application Number:	13019795
Application Number:	12984429
Application Number:	13735203
Application Number:	13226810
Application Number:	13324729
Application Number:	13549419
Application Number:	12294078
Application Number:	13649927
Application Number:	11570335
Application Number:	12665641
Application Number:	11359071
Application Number:	13836569



<b>Property Type</b>	<b>Number</b>
Application Number:	12845899
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Application Number:	12892752
Application Number:	12723860
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Application Number:	13227260
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Application Number:	13457255
Application Number:	12651210
Application Number:	12613808
Application Number:	13753242
Application Number:	13285656
Application Number:	12902997
Application Number:	11957181
Application Number:	11459854
Application Number:	13597881
Application Number:	13910862
Application Number:	13973120
Application Number:	13210473
Application Number:	13960621
Application Number:	13748193
Application Number:	12848430
Application Number:	13007998
Application Number:	13948706
Application Number:	12933053
Application Number:	13226808
Application Number:	12322860
Application Number:	13131459
Application Number:	12677660
Application Number:	12758466
Application Number:	13188947
Application Number:	12514488
Application Number:	12620581
Application Number:	12893391
Application Number:	13106642
Application Number:	13081926
Application Number:	13345578
Application Number:	13053975

<b>Property Type</b>	<b>Number</b>
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Application Number:	12912848
Application Number:	13095839
Application Number:	11849281
Application Number:	12278692
Application Number:	12838724
Application Number:	13351146
Application Number:	12877215
Application Number:	12784479
Application Number:	13197030
Application Number:	12905017
Application Number:	14324855
Application Number:	13274160
Application Number:	14027444
Application Number:	13142129
Application Number:	12939873
Application Number:	13348279
Application Number:	14188165
Application Number:	13016731
Application Number:	13924101
Application Number:	13187773
Application Number:	13942456
Application Number:	13227847
Application Number:	12436077
Application Number:	13398833
Application Number:	12860720
Application Number:	13621016
Application Number:	13762036
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Application Number:	13183787
Application Number:	13661764
Application Number:	13274069
Application Number:	10745290
Application Number:	13047658
Application Number:	13094806
Application Number:	13115677

<b>Property Type</b>	<b>Number</b>
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<b>Application Number:</b>	12748046
<b>Application Number:</b>	14076766
<b>Application Number:</b>	12617539
<b>Application Number:</b>	13270254
<b>Application Number:</b>	13297129
<b>Application Number:</b>	13149591
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<b>Application Number:</b>	12500566
<b>Application Number:</b>	13568774
<b>Application Number:</b>	14048796
<b>Application Number:</b>	13762199
<b>Application Number:</b>	13292965
<b>Application Number:</b>	12866822
<b>Application Number:</b>	12730841
<b>Application Number:</b>	11667516
<b>Application Number:</b>	12933015
<b>Application Number:</b>	12843197
<b>Application Number:</b>	13866650
<b>Application Number:</b>	13585048
<b>Application Number:</b>	14196026
<b>Application Number:</b>	13313603
<b>Application Number:</b>	13237347
<b>Application Number:</b>	14227720
<b>Application Number:</b>	14328853
<b>Application Number:</b>	12824934
<b>Application Number:</b>	13793688
<b>Application Number:</b>	13485379
<b>Application Number:</b>	11909820
<b>Application Number:</b>	12044087
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<b>Application Number:</b>	13786195
<b>Application Number:</b>	13789863
<b>Application Number:</b>	13478894
<b>Application Number:</b>	13786148
<b>Application Number:</b>	13651864

<b>Property Type</b>	<b>Number</b>
Application Number:	13676660
Application Number:	13355035
Application Number:	13622760
Application Number:	13896452
Application Number:	13307765
Application Number:	13837881
Application Number:	13274119
Application Number:	13762207
Application Number:	13536078
Application Number:	13953440
Application Number:	12411338
Application Number:	13720568
Application Number:	13943970
Application Number:	13302327
Application Number:	13952202
Application Number:	13752804
Application Number:	13549247
Application Number:	14169969
Application Number:	13439207
Application Number:	14163617
Application Number:	13653690
Application Number:	13926571
Application Number:	14075534
Application Number:	14032613
Application Number:	13129481
Application Number:	13596987
Application Number:	14286655
Application Number:	13233846
Application Number:	14743440
Application Number:	14790811
Application Number:	14502551
Application Number:	13774821
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Application Number:	14701169
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Application Number:	14282692
Application Number:	14496681
Application Number:	14484386
Application Number:	14992638
Application Number:	14250162
Application Number:	15015343
Application Number:	15423794
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<b>Property Type</b>	<b>Number</b>
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Application Number:	15004503
Application Number:	15167274
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<b>Property Type</b>	<b>Number</b>
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Application Number:	15171671
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<b>Patent Number:</b>	8567512
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<b>Patent Number:</b>	6577129

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Patent Number:	6592334
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Patent Number:	6827150
Patent Number:	6832649
Patent Number:	6834725

<b>Property Type</b>	<b>Number</b>
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Patent Number:	6851476
Patent Number:	6851491
Patent Number:	6854519
Patent Number:	6857487
Patent Number:	6860330
Patent Number:	6866100
Patent Number:	6877378
Patent Number:	6882595
Patent Number:	6883240
Patent Number:	6883612
Patent Number:	6885188
Patent Number:	6892835
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Patent Number:	6898338
Patent Number:	6898541
Patent Number:	6899186
Patent Number:	6907937
Patent Number:	6908121
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Patent Number:	6915849
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Patent Number:	6927390
Patent Number:	6931194
Patent Number:	6934459
Patent Number:	6936812
Patent Number:	6945095
Patent Number:	6951114
Patent Number:	6953096
Patent Number:	6955085
Patent Number:	6955218

<b>Property Type</b>	<b>Number</b>
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Patent Number:	6971259
Patent Number:	6973973
Patent Number:	6976536
Patent Number:	6986276
Patent Number:	6986389
Patent Number:	6990272
Patent Number:	6991040
Patent Number:	6994162
Patent Number:	6994176
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Patent Number:	7013729
Patent Number:	7017417
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Patent Number:	7080529
Patent Number:	7082079
Patent Number:	7086481
Patent Number:	7089847

Property Type	Number
Patent Number:	7093653

**CORRESPONDENCE DATA**

**Fax Number:** (212)373-2399

*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*

**Phone:** (212) 373-2488

**Email:** mamcdonough@paulweiss.com, mangelopoulos@paulweiss.com, mmcguire@paulweiss.com

**Correspondent Name:** MARISSA A MCDONOUGH

**Address Line 1:** 1285 AVENUE OF THE AMERICAS

**Address Line 2:** PAUL WEISS RIFKIND WHARTON & GARRISON LLP

**Address Line 4:** NEW YORK, NEW YORK 10019

**NAME OF SUBMITTER:** MARISSA A MCDONOUGH

**SIGNATURE:** /Marissa A. McDonough/

**DATE SIGNED:** 10/01/2021

**Total Attachments: 29**

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**NOTICE OF GRANT OF SECURITY INTEREST  
IN UNITED STATES PATENTS**

THIS NOTICE OF GRANT OF SECURITY INTEREST IN UNITED STATES PATENTS (the “Notice of Grant”) is made effective as of September 30, 2021 by and from the entities listed on the signature pages hereto (each such entity, together with any other entities that become party to this Notice of Grant, being individually referred to herein as a “Grantor” and collectively as the “Grantors”), to and in favor of Wilmington Trust, National Association, solely in its capacity as Collateral Agent (the “Collateral Agent”) for itself and on behalf and for the benefit of the other First Lien Notes Secured Parties (as defined in the Indenture referenced below).

WHEREAS, WEATHERFORD INTERNATIONAL PLC, an Irish public limited company, WEATHERFORD INTERNATIONAL LTD., a Bermuda exempted company, WEATHERFORD INTERNATIONAL, LLC, a Delaware limited liability company, the other Guarantors from time to time party thereto, the Collateral Agent and Wilmington Trust, National Association, as Trustee, are parties to the Indenture dated as of September 30, 2021 (as the same may be further amended, restated, supplemented or otherwise modified from time to time, the “Indenture”).

WHEREAS, the Grantors and the other grantors from time to time party thereto have entered into the U.S. Security Agreement dated as of September 30, 2021 (as the same may further be amended, restated, supplemented or otherwise modified from time to time, the “Security Agreement”).

WHEREAS, the Grantors own certain Patents (as defined in the Security Agreement), including without limitation the Patents listed on Exhibit A attached hereto, which Patents are issued or pending with the United States Patent and Trademark Office.

WHEREAS, this Notice of Grant has been granted in conjunction with the security interest granted to the Collateral Agent under the Security Agreement. The rights and remedies of the Collateral Agent with respect to the security interest granted herein are without prejudice to and are in addition to those set forth in the Security Agreement and the other Notes Documents, all terms and provisions of which are incorporated herein by reference. In the event that any provisions of this Notice of Grant are deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall govern.

NOW, THEREFORE, in consideration of the mutual covenants and agreements set forth herein and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, it is hereby agreed that:

1) Definitions. All capitalized terms not defined herein shall have the respective meanings given to them in the Indenture or the Security Agreement, as applicable.

2) The Security Interest.

(a) This Notice of Grant is made to secure the satisfactory performance and payment of the Indenture Obligations. Upon satisfaction of the Indenture Obligations in accordance with Sections 1502 and 1507 of the Indenture, the Collateral Agent shall promptly, at the Grantors’ expense, execute, acknowledge, and deliver to the Grantors all instruments in writing or otherwise, as reasonably requested by the Grantors in writing, evidencing the release of the security interest in the Patents acquired under this Notice of Grant. Notwithstanding the foregoing, the security interest in the Patents acquired under this Notice of Grant shall automatically be released and the Collateral Agent shall, at the Grantors’ expense, promptly execute, acknowledge and deliver to the Grantors all instruments in writing or otherwise, as reasonably requested by the Grantors in writing, evidencing such release, in each case, to the extent provided in and in accordance with the Indenture and the Security Agreement.



(b) Each Grantor hereby pledges, assigns and grants to the Collateral Agent, on behalf of and for the benefit of the First Lien Notes Secured Parties, a security interest in (1) all of such Grantor's right, title and interest in and to the Patents now owned or hereafter acquired by such Grantor, including without limitation the Patents listed on Exhibit A, together with (2) all proceeds and products of the Patents, and (3) all causes of action arising prior to or after the date hereof for infringement or other violation of the Patents or unfair competition regarding the same (collectively, the "Patent Collateral").

3) Counterparts. This Notice of Grant may be executed in any number of counterparts and by different parties in separate counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement. Signature pages may be detached from multiple separate counterparts and attached to a single counterpart. Delivery of an executed counterpart of a signature page of this Notice of Grant by telecopy, e-mailed.pdf or any other electronic means that reproduces an image of the actual executed signature page shall be effective as delivery of a manually executed counterpart of this Notice of Grant.

4) Further Actions. The Grantors authorize and request that the Commissioner for Patents of the United States Patent and Trademark Office and any other applicable government officer record this Notice of Grant. The Grantors shall take any further actions, including executing any further documentation, necessary to record, perfect or effectuate this Notice of Grant and the Collateral Agent's security interest in the Patent Collateral.

5) Authorization to Supplement. If any Grantor shall obtain rights to any new Patents, the provisions of this Notice of Grant shall automatically apply thereto. Such Grantor hereby authorizes the Collateral Agent, in consultation with such Grantor, to modify this Notice of Grant by amending Exhibit A solely to include any such new Patents of such Grantor. Notwithstanding the foregoing, no failure to so modify this Notice of Grant or amend Exhibit A shall in any way affect, invalidate or detract from the Collateral Agent's continuing security interest in all Patent Collateral, whether or not listed on Exhibit A.


6) Governing Law. This Notice of Grant and the rights and obligations of the parties hereto shall be governed by, and construed and interpreted in accordance with, the internal laws of the State of New York.

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

\*\*\*\*\*

IN WITNESS WHEREOF, the Grantors and the Collateral Agent have executed this Notice of Grant of Security Interest in United States Patents effective as of the date first written above.

WEATHERFORD TECHNOLOGY  
HOLDINGS, LLC

  
By: \_\_\_\_\_  
Name: Christine M. Morrison  
Title: Vice President & Secretary


WEATHERFORD NETHERLANDS  
B.V.

By: \_\_\_\_\_  
Name: August Willem Versteeg  
Title: Managing Director

WEATHERFORD NORGE AS

By: \_\_\_\_\_  
Name: Geir Egil Olsen  
Title: Chairman of the Board

HIGH PRESSURE INTEGRITY, INC.


  
By: \_\_\_\_\_  
Name: Christine M. Morrison  
Title: Vice President & Secretary

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B.V.

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Name: August-William Versteeg  
Title: Managing Director

WEATHERFORD NORGE AS

By: \_\_\_\_\_  
Name: Geir Egil Olsen  
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HIGH PRESSURE INTEGRITY, INC.

By: \_\_\_\_\_  
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*[Signature Page -- Notice of Grant of Security Interest in United States Patents]*

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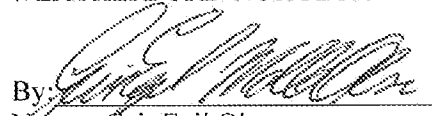
WEATHERFORD TECHNOLOGY  
HOLDINGS, LLC

By: \_\_\_\_\_  
Name: Christine M. Morrison  
Title: Vice President & Secretary

WEATHERFORD NETHERLANDS  
B.V.

By: \_\_\_\_\_  
Name: August Willem Versteeg  
Title: Managing Director

WEATHERFORD NORGE AS

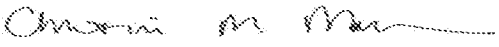
By:   
Name: Geir Egil Olsen  
Title: Chairman of the Board

HIGH PRESSURE INTEGRITY, INC.

By: \_\_\_\_\_  
Name: Christine M. Morrison  
Title: Vice President & Secretary

*[Signature Page – Notice of Grant of Security Interest in United States Patents]*

PRECISION ENERGY SERVICES,  
INC.

By:   
Name: Christine M. Morrison  
Title: Vice President & Secretary

WEATHERFORD CANADA LTD.

By: \_\_\_\_\_  
Name: Pamela M. Webb  
Title: Vice President

WEATHERFORD SWITZERLAND  
TRADING AND DEVELOPMENT  
GMBH

By: \_\_\_\_\_  
Name: Mathias Neuenschwander  
Title: Managing Officer


WEATHERFORD U.K. LIMITED

By: \_\_\_\_\_  
Name: Richard Strachan  
Title: Director

PRECISION ENERGY SERVICES,  
INC.

By: \_\_\_\_\_  
Name: Christine M. Morrison  
Title: Vice President & Secretary

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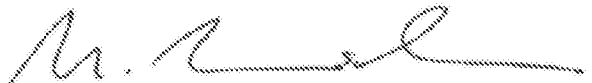
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By: \_\_\_\_\_  
Name: Pamela M. Webb  
Title: Vice President

WEATHERFORD SWITZERLAND  
TRADING AND DEVELOPMENT  
GMBH

By:  \_\_\_\_\_  
Name: Mathias Neuenschwander  
Title: Managing Officer

WEATHERFORD U.K. LIMITED

By: \_\_\_\_\_  
Name: Richard Strachan  
Title: Director

*[Signature Page – Notice of Grant of Security Interest in United States Patents]*

**PATENT**  
**REEL: 057683 FRAME: 0776**

PRECISION ENERGY SERVICES,  
INC.

By: \_\_\_\_\_  
Name: Christine M. Morrison  
Title: Vice President & Secretary

WEATHERFORD CANADA LTD.

By: \_\_\_\_\_  
Name: Pamela M. Webb  
Title: Vice President

WEATHERFORD SWITZERLAND  
TRADING AND DEVELOPMENT  
GMBH

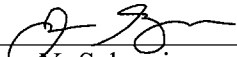
By: \_\_\_\_\_  
Name: Mathias Neuenschwander  
Title: Managing Officer

WEATHERFORD U.K. LIMITED

By: Richard K. Strachan  
Name: Richard Strachan  
Title: Director



WILMINGTON TRUST, NATIONAL  
ASSOCIATION, as Collateral Agent

By:   
Name: Jane Y. Schweiger  
Title: Vice President

*[Signature Page – Notice of Grant of Security Interest in United States Patents]*

**PATENT**  
**REEL: 057683 FRAME: 0778**

NOTICE OF GRANT OF SECURITY INTEREST  
IN UNITED STATES PATENTS  
Exhibit A – SCHEDULE OF PATENTS

[Attached]

Exhibit A-1

**PATENT**  
**REEL: 057683 FRAME: 0779**

FIG. NO./INVENTOR	COUNTRY/NAME	TITLE	APPLICATION NUMBER	DATE FILED	LOCAL FILING DATE	PATENT NUMBER	GRANT DATE	ASSIGNEE	HP. NO.
1051-US	United States of America	Auto Adjusting Well Control System	09972390	Oct 5, 2001		6595287	Jul 22, 2003	Weatherford Technology Holdings, LLC	135975
1061-US	United States of America	Apparatus and Methods for Conveying Instrumentation With	10121021	Apr 19, 2002		6915849	Jul 12, 2003	Weatherford Technology Holdings, LLC	132656
1068-US	United States of America	Stick Rod Dimension Measurement and Flaw Detection Syst	09940865	Aug 28, 2001		6560268	Jun 17, 2003	Weatherford Technology Holdings, LLC	131362
1073-US	United States of America	Hydraulic Multiphase Pump	10036737	Dec 21, 2001		6592334	Dec 13, 2003	Weatherford Technology Holdings, LLC	131213
1074-US	United States of America	Gas Operated Pump for Hydrocarbon Wells	10039501	Jan 22, 2003		6927973	Jul 15, 2003	Weatherford Technology Holdings, LLC	126586
1076-US	United States of America	Method and Apparatus for Injecting Steam into a Geological F	10097448	Mar 13, 2002		6708763	Mar 23, 2004	Weatherford Technology Holdings, LLC	127156
1140-US	United States of America	Kick Over Tool For Side Pocket Mandrel	10239903	Sep 27, 2002		6845817	Jan 25, 2006	Weatherford Technology Holdings, LLC	126926
1142-US	United States of America	Integrated Control System for Beam Pump Systems	10305107	Jan 23, 2003		7032859	Apr 25, 2006	Weatherford Technology Holdings, LLC	126244
1147-US	United States of America	Red Pump	10347132	Jan 17, 2003		6836312	Apr 26, 2006	Weatherford Technology Holdings, LLC	126244
1304-US	United States of America	Reinforced Swelling Elastomer Seal Element on Expandable T	10317843	Jan 17, 2002		6834725	Dec 28, 2004	Weatherford Technology Holdings, LLC	126233
3103-US	United States of America	Disconnect For Use in a Wellbore	10237565	Sep 9, 2002		7100566	Sep 5, 2006	Weatherford Technology Holdings, LLC	126907
3182-US	United States of America	High Expansion Pecker	10268007	Oct 9, 2002		6827150	Dec 7, 2004	Weatherford Technology Holdings, LLC	126129
3293-PCT-US	United States of America	Power Tong Frames	10422059	May 15, 2003	May 16, 2003	7004248	Feb 28, 2006	Weatherford Technology Holdings, LLC	126318
3314-US	United States of America	High Expansion Non-Elastomeric Straddle Tool	10339375	Jan 9, 2003		6715567	Apr 6, 2004	Weatherford Technology Holdings, LLC	129687
3414-US	United States of America	Apparatus for Use in a Wellbore	10037529	Jan 4, 2002		6832649	Dec 21, 2004	Weatherford Technology Holdings, LLC	126351
3415-US	United States of America	Apparatus and Methods for Utilizing Expandable Sand Screen	10347572	Jan 17, 2003		6832649	Oct 21, 2004	Weatherford Technology Holdings, LLC	126351
3456-US	United States of America	Expander	09990772	Nov 16, 2001		6805196	Oct 19, 2004	Weatherford Technology Holdings, LLC	132070
3464-US	United States of America	Dual Sensor Freeport Tool	10211252	Aug 2, 2002		6851476	Feb 8, 2006	Weatherford Technology Holdings, LLC	127134
3464-US-CIP1	United States of America	Cutting Tool For Use in a Wellbore Tubular	11052939	Feb 8, 2005		7383876	Jun 10, 2008	Weatherford Technology Holdings, LLC	125898
3494-US-DV1	United States of America	Downhole Surge Pressure Reduction and Filtering Apparatus	10324412	Dec 20, 2002		6755252	Jun 29, 2004	Weatherford Technology Holdings, LLC	126233
3508-PCT-US	United States of America	Cleaning and Doping of Tubulars	10333763	Aug 29, 2003	Jan 22, 2003	7371289	May 13, 2008	Weatherford Technology Holdings, LLC	134375
3555-US	United States of America	A Wellbore	09917860	Jul 30, 2001		6612481	Sep 2, 2003	Weatherford Technology Holdings, LLC	129599
3556-US	United States of America	One Trip Expansion Apparatus for Use in a Wellbore	10060029	Jan 29, 2002		6732806	May 11, 2004	Weatherford Technology Holdings, LLC	131544
3601-PCT-US	United States of America	Translating Downhole Tool	11021121	Dec 22, 2004		7343977	Mar 30, 2004	Weatherford Technology Holdings, LLC	125816
3601-US-CON1	United States of America	Tubing Expansion	10114923	Apr 3, 2002	Apr 3, 2002	6721251	Dec 20, 2005	Weatherford Technology Holdings, LLC	131801
3608-US	United States of America	Tubing Expansion	10805914	Mar 22, 2004		6976536	Dec 20, 2005	Weatherford Technology Holdings, LLC	122047
3643-US	United States of America	Locking Arrangement for a Threaded Connection	10277177	Oct 21, 2002		6908121	Jun 21, 2005	Weatherford Technology Holdings, LLC	126126
3643-US-CON1	United States of America	Tubing Expansion	10306490	Nov 27, 2002		7144243	Dec 5, 2006	Weatherford Technology Holdings, LLC	126370
3643-US-DV1	United States of America	Tubing Expansion	13324729	Dec 13, 2011		8641407	Feb 4, 2014	Weatherford Technology Holdings, LLC	131285
3643-US-DV1	United States of America	Tubing Expansion	11567108	Dec 5, 2006		8025813	Dec 13, 2011	Weatherford Technology Holdings, LLC	131219
3646-US	United States of America	Improved Expander Tool for Downhole Use	10267025	Oct 8, 2002		7182141	Feb 27, 2007	Weatherford Technology Holdings, LLC	126103
3658-US	United States of America	Apparatus and Method of Drilling With Casing	10319792	Dec 13, 2002		6899186	May 31, 2006	Weatherford Technology Holdings, LLC	126262
3662-PCT-US	United States of America	Conducting System - Electric Drilling	10482061	Jun 14, 2004	Dec 23, 2003	7114970	Oct 3, 2006	Weatherford Technology Holdings, LLC	134066
3665-US	United States of America	Dynamic Mudcap Drilling and Well Control System	10154437	May 23, 2002		6732804	May 11, 2004	Weatherford Technology Holdings, LLC	132737
3666-US	United States of America	A Downhole Tool for Use in a Wellbore	10154489	May 22, 2002	May 20, 2004	6827148	Dec 7, 2004	Weatherford Technology Holdings, LLC	132727
3710-PCT-US	United States of America	Hydraulic-Mechanical Jar Tool	10496265	May 20, 2004	May 29, 2003	7299672	Nov 27, 2007	Weatherford Technology Holdings, LLC	134876
3711-PCT-US	United States of America	Discorn Devices	10431270	Oct 6, 2003		6769491	Dec 26, 2006	Weatherford Technology Holdings, LLC	132256
3720-US	United States of America	Anti-Anchoring and Sealing System for a Downhole Tool	10195613	Jun 7, 2002		6627995	Aug 3, 2004	Weatherford Technology Holdings, LLC	132738
3727-US	United States of America	Flow Actuated Valve for use in a Wellbore	09995842	Nov 28, 2001		6627995	Sep 23, 2005	Weatherford Technology Holdings, LLC	132041
3734-US	United States of America	Subsurface Valve with System and Method of Sealing	10138253	May 3, 2002		6854519	Feb 15, 2005	Weatherford Technology Holdings, LLC	126978
3735-US	United States of America	Method and Apparatus for Locking Out Subsurface Safety Va	10600037	Jun 20, 2003		6991040	Jan 31, 2006	Weatherford Technology Holdings, LLC	132383
3763-US-CON1	United States of America	Optical Sensor Having Differing Diameters	10191710	Jun 9, 2002		6668656	Dec 30, 2003	Weatherford Technology Holdings, LLC	132391
3772-US-CIP2	United States of America	Speed of Sound Density Meter	10010183	Nov 7, 2001		6971259	Dec 6, 2005	Weatherford Technology Holdings, LLC	132324
3776-US-1	United States of America	Phase Flow Measurement in Pipes Using a Density Meter	10342052	Jan 14, 2003		7059172	Jun 13, 2006	Weatherford Technology Holdings, LLC	126366
3776-US-1-CON1	United States of America	A Fibery-Period Element Based on a Large Diameter Optical Wa	10151475	May 17, 2002		6898338	May 24, 2005	Weatherford Technology Holdings, LLC	132688
3777-PCT-US	United States of America	A Fibery-Period Element Based on a Large Diameter Optical Wa	11136144	May 24, 2005		7209606	Apr 24, 2007	Weatherford Technology Holdings, LLC	132426
3778-US	United States of America	Highly Sensitive Accelerometer	10931312	Sep 2, 2004		7013729	Mar 21, 2006	Weatherford Technology Holdings, LLC	131595
3789-US-CON	United States of America	Method and Apparatus for Determining Component Flow Rat	09996626	Nov 28, 2001		6898541	May 24, 2006	Weatherford Technology Holdings, LLC	133234
3789-US-CIP1	United States of America	Fluid Diffusion-Resistant Glass Encased Fiber Optic Sensor	10427335	May 1, 2003		6827378	Apr 12, 2005	Weatherford Technology Holdings, LLC	133245
3796-US	United States of America	Fiber Optic Cable Connector with a Plurality of Alignment Feat	10772091	Feb 3, 2004		7052185	May 30, 2006	Weatherford Technology Holdings, LLC	134238
3829-US	United States of America	Method and System for Determining the Speed of Sound in a	09997221	Nov 28, 2001		6557798	Jul 1, 2003	Weatherford Technology Holdings, LLC	132331
3831-US	United States of America	Method and Apparatus for Calibrating a Distributed Temperat	10151399	May 21, 2002		6807324	Oct 19, 2004	Weatherford Technology Holdings, LLC	131640
3838-US	United States of America	Venturi Augmented Flow Meter	10164832	Jun 28, 2002		6698297	Mar 2, 2004	Weatherford Technology Holdings, LLC	132794
3839-US	United States of America	System and Method for Monitoring Performance of Downhole	10348445	Jan 21, 2003		7028543	Apr 18, 2006	Weatherford Technology Holdings, LLC	126375
3839-US-CON1	United States of America	Non-Intrusive Multiphase Flow Meter	10348440	Jan 21, 2003		6945095	Sep 20, 2005	Weatherford Technology Holdings, LLC	127614
3840-US-CON3	United States of America	Side-Hole Core Waveguide Sensor	12716630	Mar 7, 2010		8494322	Jul 23, 2013	Weatherford Technology Holdings, LLC	137544
3840-US-DV1	United States of America	Side-Hole Core Waveguide Sensor	14169669	Jan 31, 2014		9329334	May 3, 2016	Weatherford Technology Holdings, LLC	253275
3842-US	United States of America	Side-Hole Core Waveguide Sensor	11129868	Jul 12, 2005		7669440	Mar 2, 2010	Weatherford Technology Holdings, LLC	133130
3842-US-CON1	United States of America	Sand Monitoring Within Wells Using Acoustic Arrays	11029874	Jan 4, 2005		7028538	Apr 18, 2006	Weatherford Technology Holdings, LLC	125857
3843-US	United States of America	Optical Differential Pressure Transducer Utilizing a Bellows an	10393557	Mar 21, 2003		7047816	May 23, 2006	Weatherford Technology Holdings, LLC	126529
3844-US-CON1	United States of America	Pressure Compensated Hydrophone	10393170	Mar 20, 2003		6882395	Apr 19, 2006	Weatherford Technology Holdings, LLC	126530
3845-US	United States of America	Pressure Compensated Hydrophone	11109387	Apr 19, 2005		7082079	Jul 25, 2006	Weatherford Technology Holdings, LLC	132376
3847-US-CON1	United States of America	Deployable Mandrel for Downhole Measurements	10384269	Mar 7, 2003		6966276	Jan 17, 2006	Weatherford Technology Holdings, LLC	126541
3848-US-CON1	United States of America	Method and Apparatus for Temperature Sensing Utilizing Opt	11168809	Jun 28, 2005		7008103	Mar 7, 2006	Weatherford Technology Holdings, LLC	132428
3848-US-CON1	United States of America	Large Diameter Optical Waveguide Splice	10757508	Jan 12, 2004		8070369	Dec 6, 2011	Weatherford Technology Holdings, LLC	127063
			13311786	Dec 18, 2014		9477042	Oct 25, 2016	Weatherford Technology Holdings, LLC	128023

3900 US	United States of America	Inflatable Packing Element	10346015	Jan 15, 2003		6729601	Aug 24, 2004	Weatherford Technology Holdings, LLC	1265114
3901 US CON1	United States of America	Modular Liner Hanger	11074127	Mar 7, 2005		7128147	Oct 31, 2006	Weatherford Technology Holdings, LLC	1268944
3913 US	United States of America	High Torque Weather Profile Threaded Tubular Connection	10095124	Mar 11, 2002		6767035	Jul 27, 2004	Weatherford Technology Holdings, LLC	1295171
3952 US CON1	United States of America	Gripping or Clamping Mechanisms	11088412	Mar 24, 2005		8186246	May 29, 2012	Weatherford Technology Holdings, LLC	1295908
3955 US	United States of America	Method for Installing an Expandable Coiled Tubing Patch	101016178	Mar 26, 2002		6668930	Dec 30, 2003	Weatherford Technology Holdings, LLC	1221243
3961 PCT US	United States of America	Wellbore Assembly and Method of Manufacture	101501672	Apr 23, 2005		7138592	Apr 8, 2008	Weatherford Technology Holdings, LLC	1335400
3961 PCT US CON1	United States of America	Wellbore Assembly for Forming a Window Within a Wellbore	120996559	Apr 8, 2008	Apr 8, 2008	8245774	Aug 21, 2012	Weatherford Technology Holdings, LLC	1356273
3962 US	United States of America	Closed Loop Multiple Underbalanced Drilling Process	10192784	Jul 10, 2002		7178592	Feb 20, 2007	Weatherford Technology Holdings, LLC	1316544
3965 DW1 US	United States of America	Apparatus for Releasing a Ball into a Wellbore	109879660	Jun 15, 2004		6802372	Dec 5, 2006	Weatherford Netherlands B.V.	1348454
3968 US	United States of America	Apparatus for Releasing a Ball into a Wellbore	10208724	Jul 30, 2002		7138592	Oct 12, 2004	Weatherford Netherlands B.V.	1271130
3968 US	United States of America	Flush Mounted Spider	102075442	Jul 29, 2002		6892835	May 17, 2008	Weatherford Technology Holdings, LLC	1221718
3973 US	United States of America	Mechanically Opened Ball Seat and Expandable Ball Seat	10227148	Aug 23, 2002		6866100	Mar 15, 2005	Weatherford Technology Holdings, LLC	1268926
3975 US	United States of America	Downhole Milling Machine and Method of Use	10407591	Apr 4, 2003		7186874	Mar 13, 2007	Weatherford Technology Holdings, LLC	1268978
3975 US DW1	United States of America	Downhole Milling Machine and Method of Use	11685995	Mar 13, 2007		7373983	May 20, 2008	Weatherford Technology Holdings, LLC	1360698
3984 US DW1	United States of America	Tubing Connector Arrangement	111734313	Jul 5, 2007		7595982	Jul 14, 2009	Weatherford Technology Holdings, LLC	1370500
3984 US DW2	United States of America	Method of Coupling Expandable Tubing Sections	12502999	Jul 14, 2009		8136216	Mar 20, 2012	Weatherford Technology Holdings, LLC	1337585
3986 US	United States of America	Method of Hydraulically Actuating and Mechanically Actuating	10251635	Sep 20, 2002		7072712	Jul 18, 2006	Weatherford Technology Holdings, LLC	1269114
3988 US	United States of America	Choke Valve Assembly for Downhole Flow Control	10231288	Dec 17, 2002		6860330	Mar 1, 2005	Weatherford Technology Holdings, LLC	1262747
3990 US	United States of America	Internal Pressure Indicator and Locking Mechanism	10292708	Sep 27, 2002		6851491	Feb 8, 2005	Weatherford Technology Holdings, LLC	1269112
3991 US	United States of America	Method, Apparatus and System for Compensating the effects	10293708	Nov 13, 2002		6765385	Jul 20, 2004	Weatherford Technology Holdings, LLC	1261388
3991 US CON1	United States of America	Borehole Compensation System and Method for a Resistivity	10895613	Jul 20, 2004		6961663	Nov 1, 2005	Weatherford Technology Holdings, LLC	1350322
3994 US	United States of America	Downhole Filter	10691385	Oct 24, 2003		7093653	Aug 22, 2006	Weatherford Technology Holdings, LLC	1288813
3994 US CIP2	United States of America	Downhole Filter	10900076	Jul 27, 2004		7186887	Mar 13, 2007	Weatherford Technology Holdings, LLC	1309332
3996 US	United States of America	Wellbore Isolation Apparatus, and Method for Tripping Pipe	10270015	Oct 11, 2002		7086481	Aug 8, 2006	Weatherford Technology Holdings, LLC	1261177
4010 PCT US	United States of America	Hydraulic Jar Device	10208050	Jul 3, 2003		7108064	Sep 19, 2006	Weatherford Technology Holdings, LLC	1336151
4012 PCT US	United States of America	Arrangement in a Gripper Mechanism for a Free Pipe/Redline	10505128	Jul 1, 2005	Aug 31, 2004	7311346	Dec 25, 2007	Weatherford Norge AS	1350583
4013 PCT US	United States of America	Hydraulic Lam Motor	10432128	May 20, 2003	May 20, 2003	7089647	Aug 13, 2006	Weatherford Norge AS	1329042
4016 US	United States of America	A Method and a Device for Pressure Controlled Sequential Op	10738366	Dec 17, 2003		7264059	Sep 4, 2007	Weatherford Norge AS	1340040
4113 US	United States of America	Hydrocarbon Recovery	10159176	May 30, 2002		7028771	Apr 18, 2006	Weatherford Technology Holdings, LLC	1260822
4120 US	United States of America	Novel Foamer Composition, and Methods for Making and Usin	10745990	Dec 23, 2003		9018145	Apr 25, 2015	Weatherford Technology Holdings, LLC	1340102
4129 US	United States of America	Active/Passive Seal Rotating Control Head	10285336	Oct 31, 2002		7040394	May 9, 2006	Weatherford Technology Holdings, LLC	1261400
4131A US CIP1	United States of America	Instrumentation for a Downhole Deployment Valve	10671335	Oct 1, 2003		7255173	May 14, 2007	Weatherford Technology Holdings, LLC	1356691
4131A US CON1	United States of America	Instrumentation for a Downhole Deployment Valve	11783808	Mar 9, 2007		7475732	Jan 13, 2008	Weatherford Technology Holdings, LLC	1368766
4131C US DW1	United States of America	Apparatus and Methods for Utilizing a Downhole Deployment	12269232	Nov 12, 2008		7690432	Apr 6, 2010	Weatherford Technology Holdings, LLC	1255275
4131X US	United States of America	Instrumentation for a Downhole Deployment Valve	10288229	Nov 5, 2002		7350590	Apr 1, 2008	Weatherford Technology Holdings, LLC	1261557
4143 US	United States of America	Expandable Bit With Secondary Release Device	10335957	Dec 31, 2002		6953096	Oct 11, 2005	Weatherford Technology Holdings, LLC	1262933
4144 US	United States of America	Drilling with Concrete Straps of Casin	10331964	Dec 30, 2002		6857487	Feb 22, 2005	Weatherford Technology Holdings, LLC	1317144
4145 US	United States of America	Expandable Sealing Apparatus	10328708	Dec 23, 2002		6907937	Jun 21, 2005	Weatherford Technology Holdings, LLC	1262942
4145 US CON1	United States of America	Expandable Sealing Apparatus	11158298	Jun 21, 2005		7070001	Jul 4, 2006	Weatherford Technology Holdings, LLC	1324399
4148 US	United States of America	Method and Apparatus for Straps Pressure Reduction in a Tool	10339579	Jan 9, 2003		7066991	Jul 4, 2006	Weatherford Technology Holdings, LLC	1263191
4152 US	United States of America	Retrievable Pre-Milled Window with Deflector	10353579	Jan 7, 2003		6923374	Aug 2, 2005	Weatherford Technology Holdings, LLC	1263724
4154 US	United States of America	Control Apparatus for Automated Downhole Tools	10763577	Jan 22, 2004		7283060	Oct 16, 2007	Weatherford Technology Holdings, LLC	1338599
4156 US	United States of America	Linear Displacement Measurement Method and Apparatus	10348608	Jan 21, 2003		6994162	Feb 7, 2006	Weatherford Technology Holdings, LLC	1263950
4159 US	United States of America	Method and Apparatus for Controlling Wellbore Equipment	10360547	Feb 6, 2003		6896055	May 24, 2005	Weatherford Technology Holdings, LLC	1264112
4160 US	United States of America	Method of Reducing Liner Diameter of Wellbore Connections	10360546	Feb 6, 2003		7168606	Jan 30, 2007	Weatherford Technology Holdings, LLC	1263655
4165 US	United States of America	Screen Assembly With Flow Through Connections	10372631	Feb 21, 2003		7048061	May 23, 2006	Weatherford Technology Holdings, LLC	1264391
4166 US	United States of America	Downhole Sub For Instrumentation	10364311	Feb 11, 2003		6915686	Jul 12, 2005	Weatherford Technology Holdings, LLC	1264603
4168 US	United States of America	Gripping Inset and Method of Gripping a Tubular	10787846	Feb 26, 2004		7231984	Jun 19, 2007	Weatherford Technology Holdings, LLC	1310194
4171 US	United States of America	Drilling with Casin Latch	10795214	Mar 5, 2004		7360594	Apr 22, 2008	Weatherford Technology Holdings, LLC	1343416
4172 US CIP3	United States of America	Tong	10794792	Mar 5, 2004		7281451	Oct 16, 2007	Weatherford Technology Holdings, LLC	1342358
4173 US CIP1	United States of America	Methods and Apparatus for Handling and Drilling with Tubula	10795129	Mar 5, 2004		7325510	Feb 5, 2008	Weatherford Technology Holdings, LLC	1342359
4177 US CON1	United States of America	Full Bore Liner Wellbores	10794790	Mar 5, 2004		7413020	Aug 19, 2008	Weatherford Technology Holdings, LLC	1340232
4180 US	United States of America	Full Bore Liner Wellbores	12154349	May 19, 2008		7984763	Jul 26, 2011	Weatherford Technology Holdings, LLC	1351530
4187 US	United States of America	Drill Shoe	10789876	Feb 27, 2004		7096982	Aug 29, 2006	Weatherford Technology Holdings, LLC	1261377
4190 US	United States of America	Expansion Method	10516661	Jul 9, 2003		7077210	Jul 18, 2006	Weatherford Technology Holdings, LLC	1269914
4190 US	United States of America	Method and Apparatus for Handling Wellbore Tubulars	10818183	Apr 5, 2004		7370707	May 13, 2008	Weatherford Technology Holdings, LLC	1344321
4193 US	United States of America	Adjustable Deployment Mechanism for an Actively Clamped T	10641402	Aug 14, 2003		6998389	Jan 17, 2006	Weatherford Technology Holdings, LLC	1333312
4198 US	United States of America	Tubing Connector and Method of Sealing Tubing Connectors	10684844	May 18, 2004		7895726	Mar 1, 2011	Weatherford Technology Holdings, LLC	1347079
4221 US	United States of America	A Method for Making Large Diameter Optical Waveguide Hav	10458773	Jun 9, 2003		7080529	Jul 25, 2014	Weatherford Technology Holdings, LLC	1336211
4221 US CON1	United States of America	Method for Making Large Diameter Multicores Optical Wavegr	11459854	Jul 25, 2006		8769995	Jul 8, 2014	Weatherford Technology Holdings, LLC	1278575
4232 US	United States of America	Low Loss Large-Diameter Optical	10755722	Jan 12, 2004		7430981	Oct 7, 2008	Weatherford Technology Holdings, LLC	1339654
4235 US	United States of America	Apparatus and Method for Measuring Multi-Phase Flows in Pl	10635695	Aug 7, 2003		7181955	Feb 27, 2007	Weatherford Technology Holdings, LLC	1332259
4240 US	United States of America	Reliable Outdoor Instrument Cooling System	10619936	Jul 15, 2003		6951114	Oct 4, 2005	Weatherford Technology Holdings, LLC	1332939
4243 US	United States of America	Housing on the Exterior of a Well Casing for Optical Fibers Se	10441234	May 19, 2003		6840114	Jan 11, 2005	Weatherford Technology Holdings, LLC	1329333
4244 US	United States of America	Well Casing Integrity Monitoring System	10441233	May 19, 2003		6957574	Oct 25, 2005	Weatherford Technology Holdings, LLC	1329350
4246 US	United States of America	Optical Accelerometers of Displacement Device Using a Flexur	10452124	Jun 2, 2003		6955085	Oct 18, 2005	Weatherford Technology Holdings, LLC	1329666
4289 US	United States of America	Hydraulic Setting Tool for Liner Hanger	10850349	May 20, 2004		7145473	Oct 3, 2006	Weatherford Technology Holdings, LLC	1347775
4284 US	United States of America	Tubing Connector	10866319	Jun 11, 2004		7419193	Sep 2, 2008	Weatherford Technology Holdings, LLC	1348820

4285 US CON1	United States of America	Packer With Metal Sealing Element	10438763	May 15, 2003	6962206	Nov 8, 2005	Weatherford Technology Holdings, LLC	132951
4286 US	United States of America	Packer With Metal Sealing Element	11518184	Jun 21, 2005	7165622	Jan 23, 2007	Weatherford Technology Holdings, LLC	132427
4287 US	United States of America	Automated Optical Inspector of Wire-Wrapped Well Screens	10463238	Jun 17, 2003	7102745	Sep 5, 2006	Weatherford Technology Holdings, LLC	132994
4288 US	United States of America	Tubing Expansion	10969458	Jun 16, 2004	7251777	Aug 14, 2007	Weatherford Technology Holdings, LLC	134889
4293 US	United States of America	Expansion Apparatus	10886613	Jul 7, 2004	7234532	Jun 26, 2007	Weatherford Technology Holdings, LLC	134898
4296 US-CIP1	United States of America	Apparatus for Wellbore Communication	10888854	Jul 9, 2004	7433018	Aug 19, 2008	Weatherford Technology Holdings, LLC	134950
4296 US CON1	United States of America	Apparatus for Wellbore Communication	12193917	Aug 19, 2008	7730968	Jun 8, 2010	Weatherford Technology Holdings, LLC	134723
4297 US	United States of America	Method and Apparatus for Treating a Well	10616455	Jul 19, 2003	7139157	Oct 31, 2006	Weatherford Technology Holdings, LLC	132892
4303 US	United States of America	Seal Arrangement	10902694	Jul 29, 2004	7370708	May 13, 2005	Weatherford Technology Holdings, LLC	133088
4313 US	United States of America	Picking Fiber Optic Sensor Line	10642402	Aug 15, 2003	6955218	Oct 18, 2005	Weatherford Technology Holdings, LLC	133730
4313 US CON1	United States of America	Picking Fiber Optic Sensor Line	11253072	Oct 18, 2005	7163055	Jan 16, 2007	Weatherford Technology Holdings, LLC	134282
4343 US	United States of America	Doubble Inflatable Packer & Method of Use	09940067	Aug 27, 2001	6578638	Jun 17, 2003	Weatherford Technology Holdings, LLC	129724
4343 US	United States of America	Method for Pressurizing Mud Cap and Reverse Circulation Drill	10666088	Sep 19, 2003	7237623	Jul 3, 2007	Weatherford Technology Holdings, LLC	126509
4344 US	United States of America	Cement Through, Tubing Retrivable Safety Valve	10853668	Sep 25, 2004	7314091	Jan 1, 2008	Weatherford Technology Holdings, LLC	133236
4345 US	United States of America	Adapter Frame for a Power Frame	10945668	Sep 20, 2004	7188548	Mar 13, 2007	Weatherford Technology Holdings, LLC	133236
4359 US-CIP1	United States of America	Permanent Downhole Deployment of Optical Sensors	10576376	Oct 1, 2003	7219729	May 22, 2007	Weatherford Technology Holdings, LLC	129917
4363 US	United States of America	Vibration Damper Systems for Drilling with Casing	10977481	Oct 29, 2004	7409758	Aug 12, 2008	Weatherford Technology Holdings, LLC	133385
4364 US	United States of America	Down-Hole Valve Motor	10696489	Oct 29, 2003	7172059	Feb 6, 2007	Weatherford Technology Holdings, LLC	129168
4368 US	United States of America	Optical Connector Assembly	11014620	Dec 16, 2004	7264404	Sep 4, 2007	Weatherford Technology Holdings, LLC	133565
4368 US-DIV1	United States of America	Optical Connector Assembly	11849609	Sep 4, 2007	7703988	Apr 27, 2010	Weatherford Technology Holdings, LLC	133191
4368 US-DIV2	United States of America	Optical Connector Assembly	11849614	Sep 4, 2007	7844150	Nov 30, 2010	Weatherford Technology Holdings, LLC	135612
4372 US	United States of America	Reciprocating Sliding Pump	10737703	Dec 15, 2003	7172028	Feb 6, 2007	Weatherford Technology Holdings, LLC	129168
4373 US	United States of America	Feedthrough Fiber Strain Relief	11012501	Dec 15, 2004	7373072	May 13, 2008	Weatherford Technology Holdings, LLC	129787
4375 US	United States of America	Splice for Optical Cable	10707016	Dec 8, 2003	6931194	Aug 16, 2005	Weatherford Technology Holdings, LLC	134048
4384 US	United States of America	Seal Stack for Sliding Sleeve	10748695	Dec 30, 2003	7363981	Apr 29, 2008	Weatherford Technology Holdings, LLC	134125
4386 US	United States of America	Flexible Wellbore Broach	11037793	Jan 18, 2005	7308940	Dec 18, 2007	Weatherford Technology Holdings, LLC	125859
4391 US	United States of America	Pressure Sensor Assembly Suitable for Use in Harsh Environments	10775473	Feb 10, 2004	7017417	Mar 28, 2006	Weatherford Technology Holdings, LLC	133993
4392 US	United States of America	Seal Assembly for Safety Valve	10779478	Feb 13, 2004	7055607	Jun 6, 2006	Weatherford Technology Holdings, LLC	126580
4392 US-CIP1	United States of America	Seal Assembly Engineered with Floating Pistons	11550590	Oct 18, 2006	7779925	Aug 24, 2010	Weatherford Technology Holdings, LLC	135153
4393 US	United States of America	Adjustable Rotating Guides for Splicer or Elevator	10794800	Mar 5, 2004	6994176	Feb 7, 2008	Weatherford Technology Holdings, LLC	134315
4393 US CON1	United States of America	Adjustable Rotating Guides for Splicer or Elevator	11345066	Feb 11, 2006	7448456	Nov 11, 2008	Weatherford Technology Holdings, LLC	126699
4394 US	United States of America	Combined Bragg Grating Wavelength Interrogator and Brillouin	10667656	Oct 29, 2003	7199869	Apr 3, 2007	Weatherford Technology Holdings, LLC	131028
4405 US-CIP3	United States of America	Expandable Tubulars	10610309	Jun 30, 2003	6966369	Nov 22, 2005	Weatherford Technology Holdings, LLC	133726
4405 US-CIP4	United States of America	Expandable Tubulars	10948358	May 11, 2004	7165179	Jan 2, 2007	Weatherford Technology Holdings, LLC	134725
4412 US	United States of America	Apparatus and Methods for Connecting Tubulars	10830354	May 20, 2004	7707914	May 4, 2010	Weatherford Technology Holdings, LLC	134443
4412 US	United States of America	Casing Burning Head	10950347	May 20, 2004	7298417	Oct 23, 2007	Weatherford Technology Holdings, LLC	131654
4415 US	United States of America	Efficient Distributed Sensor Fiber	10862004	Jun 4, 2004	7113659	Sep 26, 2006	Weatherford Technology Holdings, LLC	134382
4416 US	United States of America	Optical Wavelength Determination Using Multiple Measurable	10862006	Jun 4, 2004	7109471	Sep 19, 2006	Weatherford Technology Holdings, LLC	126249
4417 US-CIP2	United States of America	Coupling and Sealing Tubulars in a Bore	11140184	May 27, 2005	7410001	Aug 12, 2008	Weatherford Technology Holdings, LLC	132452
4420 US	United States of America	Methods and Apparatus for Reducing Electromagnetic Signal	11152408	Jun 14, 2005	7243028	Jul 10, 2007	Weatherford Technology Holdings, LLC	128846
4421 US-CIP1	United States of America	Flow Nozzle Assembly	11148495	Jun 8, 2005	7237989	May 20, 2008	Weatherford Technology Holdings, LLC	129594
4421 US-CIP2	United States of America	Flow Nozzle Assembly	11551571	Oct 20, 2006	7459741	Oct 6, 2008	Weatherford Technology Holdings, LLC	132450
4423 US	United States of America	Hybrid Threaded Connector for Expandable Tubulars	10885824	Jun 7, 2004	7452007	Nov 18, 2008	Weatherford Technology Holdings, LLC	134205
4424 US	United States of America	Surge Reducer Bypass Valve	11167487	Jun 27, 2005	7299880	Nov 27, 2007	Weatherford Technology Holdings, LLC	131966
4432 US CON1	United States of America	Apparatus and Methods for Separating and Joining Tubulars	10309561	Mar 14, 2003	6851475	Feb 8, 2005	Weatherford Technology Holdings, LLC	126511
4436 US-DIV1	United States of America	Tong for Wellbore Operations	10031049	Dec 7, 2001	6668684	Dec 30, 2005	Weatherford Technology Holdings, LLC	132104
4448 US	United States of America	Riser Rotating Control Device	10995980	Nov 23, 2004	7457837	Feb 10, 2008	Weatherford Technology Holdings, LLC	135216
4454 US	United States of America	Flow Control Apparatus for Use in a Wellbore	11013883	Dec 16, 2004	7296633	Nov 20, 2007	Weatherford Technology Holdings, LLC	135024
4455 US	United States of America	One-Way Valve for a Side Pocket Mandrel of a Gas Lift System	11023990	Dec 28, 2004	7228909	Jun 12, 2007	Weatherford Technology Holdings, LLC	133043
4459 US	United States of America	Wellbore Tool with Dismountable Components	11018406	Dec 21, 2004	7350582	Apr 1, 2008	Weatherford Technology Holdings, LLC	125809
4459 US-CIP1	United States of America	Wellbore Tool with Dismountable Components	11537374	Sep 29, 2006	7798236	Sep 21, 2010	Weatherford Technology Holdings, LLC	137366
4463 US	United States of America	Expandable Tubulars for Use in a Wellbore	11359083	Feb 22, 2006	7686076	Mar 30, 2010	Weatherford Technology Holdings, LLC	135459
4464 US-CIP1	United States of America	Water Detection and 3 Phase Fraction Measurement Systems	11625427	Jan 22, 2007	7834312	Nov 16, 2011	Weatherford Technology Holdings, LLC	125710
4464 US CON1	United States of America	Water Detection and 3 Phase Fraction Measurement Systems	12947986	Nov 16, 2010	8039793	Oct 18, 2011	Weatherford Technology Holdings, LLC	136485
4464 US CON2	United States of America	Water Detection and 3 Phase Fraction Measurement Systems	13240287	Sep 30, 2011	8274041	Sep 25, 2012	Weatherford Technology Holdings, LLC	127955
4464 US CON3	United States of America	Water Detection and 3 Phase Fraction Measurement Systems	13593844	Aug 24, 2012	8465159	Jun 11, 2013	Weatherford Technology Holdings, LLC	128354
4464 US CON4	United States of America	Multi-Channel Infrared Optical Phase Fraction Meter	11065489	Feb 24, 2005	7233001	Jun 19, 2007	Weatherford Technology Holdings, LLC	128822
4464 US CON5	United States of America	Multi-Channel Infrared Optical Phase Fraction Meter	11764658	Jun 16, 2007	8438309	May 7, 2013	Weatherford Technology Holdings, LLC	127892
4464 US-DIV1	United States of America	Polarization Controlling Optical Fiber Preform and Preform Fa	11364122	Feb 28, 2006	826450	Oct 29, 2011	Weatherford Technology Holdings, LLC	130301
4465 US	United States of America	Whipstock Anchor	11368210	Mar 3, 2006	7963341	Oct 16, 2012	Weatherford Technology Holdings, LLC	135476
4471 US	United States of America	Balanced Line Safety Valve With Tubing Pressure Assist	11069781	Mar 1, 2005	7392849	Jul 1, 2008	Weatherford Technology Holdings, LLC	125845
4475 US	United States of America	Valve for Controlling the Flow of Fluid Between an Interior Re	11101687	Apr 8, 2005	7500523	Mar 10, 2009	Weatherford Technology Holdings, LLC	134034
4475 US-DIV1	United States of America	Valve for Controlling the Flow of Fluid Between an Interior Re	12365634	Feb 4, 2009	8002039	Aug 23, 2011	Weatherford Technology Holdings, LLC	133503
4486 US	United States of America	Method and Apparatus for Friction Reduction in a Downhole	111521409	Jun 14, 2005	7430467	Oct 14, 2008	Weatherford Technology Holdings, LLC	125944
4489 US	United States of America	Method Of Estimating Pump Efficiency	1112214	Jun 29, 2005	7500390	Mar 10, 2009	Weatherford Technology Holdings, LLC	127787
4489 US CON1	United States of America	Method Of Estimating Pump Efficiency	12040852	Mar 10, 2009	7891237	Feb 22, 2011	Weatherford Technology Holdings, LLC	133561
4490 US-CIP1	United States of America	Optical Fiber Feedthrough Using Axial Seals for Bi-Directional Seal	12040655	Mar 18, 2008	7751677	Jul 6, 2010	Weatherford Technology Holdings, LLC	133250
4490 US CON1	United States of America	Optical Waveguide Feedthrough Assembly	13795323	Mar 12, 2013	9423564	Aug 23, 2016	Weatherford Technology Holdings, LLC	136647

4490 US-COIN2	United States of America	Optical Waveguide Feedthrough Assembly	15185311	Jun 17, 2016	10606000	Mar 31, 2020	Weatherford Technology Holdings, LLC	798962
4493 US	United States of America	Spun Tube Connector Lock	11154180	Jun 16, 2005	7497267	Mar 3, 2008	Weatherford Technology Holdings, LLC	132046
4493 US-DU1	United States of America	Spun Tube Connector Lock	12393741	Feb 26, 2009	7868419	Feb 15, 2011	Weatherford Technology Holdings, LLC	136786
4497 US	United States of America	Method and Apparatus for Optimizing Well Production	11180200	Jul 13, 2005	7490675	Feb 17, 2009	Weatherford Technology Holdings, LLC	127379
4497 US-DU1	United States of America	Methods and Apparatus for Optimizing Well Production	12369142	Feb 11, 2009	7806188	Oct 5, 2010	Weatherford Technology Holdings, LLC	136748
4502 US	United States of America	Calculating Directional Drilling Tool Face Offsets	09976129	Oct 15, 2001	6585064	Jul 1, 2003	Weatherford Technology Holdings, LLC	132498
4503 US	United States of America	Well Logging System for Determining Resistivity Using Multiple Well Logging Systems for Determining Directional Resistivity	10053043	Jan 19, 2002	6646441	Nov 11, 2003	Weatherford Technology Holdings, LLC	132499
4504 US	United States of America	Well Logging System for Determining Directional Resistivity	10053041	Jan 19, 2002	6571729	Jan 10, 2003	Weatherford Technology Holdings, LLC	132500
4505 US	United States of America	Gamma Ray Spectroscopy Logging While Drilling System	10267644	Oct 8, 2002	6927390	Dec 23, 2001	Weatherford Technology Holdings, LLC	132564
4510 US	United States of America	Downhole Check Synchronization Apparatus and Methods for	10518269	Jul 9, 2003	7230543	Jun 12, 2007	Weatherford Technology Holdings, LLC	132515
4512 US	United States of America	Electromagnetic Borehole Telemetry System Incorporating a	10549431	Aug 27, 2003	7145473	Dec 5, 2006	Weatherford Technology Holdings, LLC	132517
4515 US-CIP1	United States of America	Electromagnetic Borehole Telemetry System Incorporating a	10781585	Feb 11, 2004	7253401	Oct 24, 2006	Weatherford Technology Holdings, LLC	132518
4516 US-CIP1	United States of America	Spectral Gamma Ray Logging While Drilling System	10809066	Mar 15, 2004	7202456	Apr 10, 2007	Weatherford Technology Holdings, LLC	133107
4518 US	United States of America	Gain Stabilization Apparatus and Methods for Spectral Gamma	11050005	Feb 1, 2005	7151254	Apr 10, 2007	Weatherford Technology Holdings, LLC	133828
4520 US	United States of America	Logging Tool with Response Invariant to Changes in Borehole	10901714	Nov 16, 2004	7544760	Jan 12, 2010	Weatherford Canada Ltd.	127454
4533 US-DU1	United States of America	Self-Contained Temperature Sensor for Borehole Systems	11306874	Jan 13, 2006	7139350	Nov 21, 2008	Weatherford Technology Holdings, LLC	126466
4533 US-COIN1	United States of America	Method and Apparatus for Measuring Radiation in a Borehole	10307033	Nov 27, 2002	6566657	May 20, 2003	Precision Energy Services, Inc.	126194
4536 US	United States of America	Geometrically Optimized Fast Neutron Detector	09808621	Mar 14, 2001	6702010	May 9, 2004	Precision Energy Services, Inc.	134494
4538 US	United States of America	Electrical Measurement Apparatus and Method for Measuring	10032644	Dec 28, 2001	6653839	Nov 25, 2003	Precision Energy Services, Inc.	132535
4540 US	United States of America	Method and Apparatus for Full Offset Resistivity Imaging for	10339102	Jan 9, 2003	6815954	Nov 9, 2004	Precision Energy Services, Inc.	132447
4542 US-COIN1	United States of America	Apparatus and Method for Determining Density, Porosity, and	10852443	Nov 24, 2004	6936812	Aug 30, 2005	Precision Energy Services, Inc.	132465
4544 US	United States of America	Oil and Gas Well Tubular Inspection System Using Half Effect	10307094	Nov 27, 2002	6924640	Aug 2, 2005	Precision Energy Services, Inc.	133825
4548 US	United States of America	Apparatus and Methods for Measurement of Density of a Bore	10207383	Jul 30, 2002	6845563	Jan 25, 2005	Weatherford Canada Ltd.	132511
4575 US	United States of America	Method and Apparatus for Providing a Stream of Pressurized	09898361	Nov 29, 2001	6738720	May 18, 2004	Precision Energy Services, Inc.	133027
4577 US	United States of America	Method and Apparatus for Separating and Measuring Solids	10284173	Oct 31, 2002	6662885	Dec 16, 2003	Weatherford Canada Ltd.	133048
4579 US	United States of America	Method of Dynamically Controlling Bottom Hole Circulation	11080663	Mar 16, 2005	7407019	Sep 14, 2008	Weatherford Canada Ltd.	133050
4587 US	United States of America	Method and Apparatus for Interconnected, Rolling Rig and Oil	10265026	Oct 4, 2002	6962030	Aug 5, 2008	Weatherford Canada Ltd.	133055
4601 US	United States of America	Detector Assemblies and Methods	09931552	Aug 16, 2001	6885188	Apr 26, 2005	Weatherford Technology Holdings, LLC	133097
4602 US	United States of America	Method and Apparatus for Determining the Orientation of a	09993132	Aug 16, 2001	6728639	Apr 27, 2004	Weatherford Technology Holdings, LLC	133098
4605 US	United States of America	Borehole Surveying	10666314	Sep 18, 2003	6863240	Apr 26, 2005	Weatherford Technology Holdings, LLC	133101
4610 US-COIN1	United States of America	Transmitting Sensor Response Data and Power Through a Mu	12904301	Oct 14, 2010	8011425	Sep 6, 2011	Weatherford Canada Ltd.	136743
4611 US	United States of America	High Temperature Near Infrared for Measurements and Teler	11166879	Jun 24, 2005	7475593	Jan 13, 2009	Weatherford Technology Holdings, LLC	133463
4619 US	United States of America	Method and Apparatus for Perforating a Casing and Producing	11740171	Apr 25, 2007	7571688	Aug 11, 2009	Weatherford Technology Holdings, LLC	136075
4619 US-COIN1	United States of America	Method and Apparatus for Perforating a Casing and Producing	12503724	Jul 15, 2009	7905285	Mar 15, 2011	Weatherford Technology Holdings, LLC	133415
4622 US	United States of America	System and Method for Releasing and Retrieving Memory	11423909	Jun 13, 2006	7537061	May 26, 2008	Weatherford Technology Holdings, LLC	126348
4626 US	United States of America	Reduction of Standoff Effects in Acoustic Measurements	11623341	Jan 16, 2007	8194497	Jun 5, 2012	Weatherford Technology Holdings, LLC	127692
4627 US	United States of America	Drilling System Comprising a Plurality of Borehole Telemetry	11585974	Dec 7, 2006	7894302	Feb 22, 2011	Weatherford Technology Holdings, LLC	125516
4638 US	United States of America	Apparatus and Methods for Measuring Pressure Using a Dial	11855577	Sep 14, 2007	7805999	Oct 5, 2010	Weatherford Technology Holdings, LLC	135454
4639 US	United States of America	Downrigger Tool	11967384	Dec 31, 2007	8141628	Mar 27, 2012	Weatherford Technology Holdings, LLC	137266
4640 US	United States of America	Acoustic Transmitter Comprising a Plurality of Piezoelectric	11780957	Jul 20, 2007	8279713	Oct 2, 2012	Weatherford Technology Holdings, LLC	137420
4641 US	United States of America	Monopole Acoustic Transmitter Comprising a Plurality of Piez	11943185	Nov 20, 2007	7864629	Jan 4, 2011	Weatherford Technology Holdings, LLC	125751
4645 US	United States of America	Directional Drilling Control Using Modulated Bit Rotation	11848328	Aug 31, 2007	7766098	Aug 3, 2010	Weatherford Technology Holdings, LLC	137088
4646 US	United States of America	Method and Apparatus for Logging Foam Cements in Cased	11866221	Oct 2, 2007	7885142	Feb 8, 2011	Weatherford Technology Holdings, LLC	136873
4679 US	United States of America	Mechanical Bi-Directional Isolation Valve	12112092	Apr 30, 2008	9378407	Oct 10, 2011	Weatherford Technology Holdings, LLC	125432
4681 US	United States of America	Measurement Tool and Method of Use	12236591	Sep 24, 2008	8334912	Dec 4, 2012	Weatherford Technology Holdings, LLC	125560
4681 US-COIN1	United States of America	Measurement Tool and Method of Use	13661676	Oct 26, 2012	9581580	Feb 28, 2012	Weatherford Technology Holdings, LLC	128336
4686 US	United States of America	Steering Component Steering Assembly and Method of Steel	12480104	Jun 8, 2009	8266732	Oct 16, 2012	Weatherford Technology Holdings, LLC	136738
4688 US	United States of America	Ultrasonic Logging Methods and Apparatus for Automatically	12034990	Feb 21, 2008	7755973	Jul 13, 2010	Weatherford Technology Holdings, LLC	127281
4693 US	United States of America	Borehole Imaging and Standoff Determination Using Neutron	12119685	May 13, 2008	7544929	Jun 9, 2008	Weatherford Technology Holdings, LLC	126935
4695 US-Res-Isue	United States of America	Borehole Measurements Using a Fast and High Energy Resolut	13967230	Aug 14, 2013	USRE45226	Nov 4, 2014	Precision Energy Services, Inc.	126952
4700 US-COIN1	United States of America	Configurable Autonom. Led Base Spectroscopy for Downho	12613700	Nov 6, 2009	8164050	Apr 24, 2011	Weatherford Technology Holdings, LLC	125417
4702 US	United States of America	Multi-Channel Source Assembly for Downhole Spectroscopy	13452128	Nov 20, 2012	8536516	Sep 17, 2013	Precision Energy Services, Inc.	130454
4702A US	United States of America	Downhole Gas Resolout Sensor	12893432	Sep 30, 2010	8411262	Apr 2, 2013	Weatherford Technology Holdings, LLC	136705
4704 US	United States of America	Quintuplex Mud Pump	12244946	Oct 3, 2008	8083504	Dec 27, 2011	Weatherford Technology Holdings, LLC	135251
4705 US	United States of America	Memory Logging System for Determining the Condition of a S	12281661	Oct 30, 2008	7810564	Oct 12, 2010	Weatherford Technology Holdings, LLC	125688
4716 US	United States of America	Multi-Chanel Detector Assembly for Downhole Spectroscopy	12613808	Nov 6, 2009	8735803	May 27, 2011	Weatherford Technology Holdings, LLC	133217
4726 US	United States of America	Method and Apparatus for Measuring Formation Anisotropy	12848430	Aug 2, 2010	8797825	Aug 5, 2014	Weatherford Technology Holdings, LLC	133551
4728 US	United States of America	Clustering Process for Analyzing Pressure Gradient Data	13274160	Oct 14, 2011	8918288	Dec 23, 2010	Weatherford Technology Holdings, LLC	136467
4728 US-COIN	United States of America	Clustering Process for Analyzing Pressure Gradient Data	14550543	Jun 25, 2015	9581015	Feb 28, 2017	Precision Energy Services, Inc.	372099
4729 US	United States of America	Autonomous Formation Pressure Test Process for Formatio	13188947	Jul 13, 2011	8839668	Sep 23, 2014	Weatherford Technology Holdings, LLC	134126
4729 US-DU1	United States of America	Autonomous Formation Pressure Test Process for Formatio	14467504	Aug 25, 2014	9771797	Sep 26, 2016	Weatherford Technology Holdings, LLC	376955
4736 US	United States of America	Sensor Mounting Assembly for Drill Collar Stabilizer	13651864	Oct 15, 2012	9243488	Jan 26, 2016	Weatherford Technology Holdings, LLC	137070
4811 US	United States of America	Rotary Expansion	11549500	Oct 13, 2006	7836741	Nov 23, 2010	Weatherford Technology Holdings, LLC	137460
4815 US	United States of America	A Method for Forming a Hydrocarbon Drilling Fluid and for Pr	11293859	Dec 2, 2005	7767628	Aug 3, 2010	Weatherford Technology Holdings, LLC	133078
4823 US	United States of America	Critical Velocity Reduction in a Gas Well	13330361	Jan 10, 2006	7409998	Aug 12, 2008	Weatherford Technology Holdings, LLC	127481
4823 US-Res-Isue	United States of America	Critical Velocity Reduction in a Gas Well	12492526	Jun 26, 2009	RE22030	Jan 18, 2011	Weatherford Technology Holdings, LLC	136584

4828 US-CIP2	United States of America	Apparatus for Gripping a Tubular on a Drilling Rig	11609709	Dec 12, 2006	7874352	Jan 25, 2011	Weatherford Technology Holdings, LLC	125708
4828 US-COIN2	United States of America	Apparatus for Gripping a Tubular on a Drilling Rig	15284833	Sep 1, 2016	10138690	Nov 27, 2018	Weatherford Technology Holdings, LLC	816051
4828 US-DIV1	United States of America	Apparatus for Gripping a Tubular on a Drilling Rig	13009475	Jan 19, 2011	8567512	Oct 29, 2013	Weatherford Technology Holdings, LLC	138527
4829 US-CIP1	United States of America	Expanding Multiple Tubular Portions	11611029	Dec 14, 2006	7756595	Jul 1, 2010	Weatherford Technology Holdings, LLC	136294
4829 US-DIV1	United States of America	Expanding Multiple Tubular Portions	12790585	May 28, 2010	8028749	Oct 4, 2011	Weatherford Technology Holdings, LLC	136642
4830 US-CIP1	United States of America	Injection Valve and Method	11468631	Aug 30, 2006	7455116	Nov 25, 2008	Weatherford Technology Holdings, LLC	128676
4830 US-COIN1	United States of America	Injection Valve and Method	12234184	Sep 19, 2008	7861790	Jan 4, 2011	Weatherford Technology Holdings, LLC	125453
4837 US-DIV1	United States of America	Stand Compressor	12484437	Jun 15, 2009	8162045	Apr 24, 2012	Weatherford Technology Holdings, LLC	133059
4842 PCT-US	United States of America	Managed Pressure and/or Temperature Drilling System and Method	12278962	May 21, 2009	8881843	Nov 11, 2011	Weatherford Technology Holdings, LLC	134940
4848 US-CIP1	United States of America	Method and Apparatus for Expanding Tubulars in a Wellbore	11354659	Feb 15, 2006	7503396	Mar 17, 2009	Weatherford Technology Holdings, LLC	134940
4850 US-CIP1	United States of America	Fluorizing Seal for Expandable Connections	11621280	Feb 7, 2007	7887103	Feb 15, 2011	Weatherford Technology Holdings, LLC	137421
4850 US-CIP3	United States of America	Adjustable Venturi Valve	11359071	Feb 22, 2006	8689883	Apr 8, 2014	Weatherford Technology Holdings, LLC	135968
4855 US-CIP3	United States of America	System and Method for Deflection Compensation in Power Drilling	11608143	Dec 2, 2006	7568522	Aug 4, 2009	Weatherford Technology Holdings, LLC	136350
4855 US-DIV1	United States of America	System and Method for Deflection Compensation in Power Drilling	12554499	Aug 2, 2009	8167038	May 1, 2012	Weatherford Technology Holdings, LLC	136580
4856 PCT-US-DIV1	United States of America	Performance of Permanently Installed Tubing Conveyed Seals	14162800	Mar 4, 2014	9470815	Oct 18, 2016	Weatherford Technology Holdings, LLC	260117
4863 US-COIN1	United States of America	Torque Slip For Use with a Top Drive	11741300	Apr 27, 2010	7757759	Jul 20, 2010	Weatherford Technology Holdings, LLC	136122
4863 US-COIN2	United States of America	Torque Slip For Use with a Top Drive	12813981	Jun 11, 2010	8042783	Nov 1, 2011	Weatherford Technology Holdings, LLC	134975
4866 US-COIN2	United States of America	Force Slip For Use with a Top Drive	13274424	Oct 17, 2011	8291856	Oct 9, 2012	Weatherford Technology Holdings, LLC	125766
4867 US	United States of America	Method and Apparatus for Drilling with Casing	11750943	May 18, 2007	8276689	Oct 2, 2012	Weatherford Technology Holdings, LLC	137010
4867 US	United States of America	Method and Apparatus for Drilling with Casing	11751841	May 22, 2007	7798238	Sep 21, 2010	Weatherford Technology Holdings, LLC	136825
4868 US	United States of America	Sonar Based Multiphase Flowmeter	11382761	May 11, 2006	7401530	Jul 22, 2008	Weatherford Technology Holdings, LLC	126415
4871 US	United States of America	Stage Cementing Methods used in Casing while Drilling	11247849	May 11, 2007	7857052	Dec 28, 2010	Weatherford Technology Holdings, LLC	136849
4880 US	United States of America	Milling of Cemented Tubulars	11834764	Aug 7, 2007	7823865	Nov 2, 2010	Weatherford Technology Holdings, LLC	137091
4885 US-COIN1	United States of America	Array Temperature Sensing Method and System	11957181	Dec 14, 2007	8141634	Jul 1, 2014	Weatherford Technology Holdings, LLC	137251
4885 US-DIV1	United States of America	Releasing and Recovering Tool	11842837	Aug 21, 2007	8347964	Mar 27, 2012	Weatherford Technology Holdings, LLC	137094
4885 US-DIV1	United States of America	Releasing and Recovering Tool	13403188	Jan 23, 2012	7654155	Jan 8, 2013	Weatherford Technology Holdings, LLC	128064
4892 US	United States of America	Met-Gas Flowmeter	11625460	Jan 22, 2007	7654155	Feb 2, 2010	Weatherford Technology Holdings, LLC	137429
4892 US-COIN1	United States of America	Met-Gas Flowmeter	12689772	Feb 5, 2010	7938023	May 10, 2011	Weatherford Technology Holdings, LLC	137072
4894 US2	United States of America	Active Intake Pressure Control of Downhole Pump Assemblies	11586815	Oct 11, 2006	7736683	Sep 14, 2010	Weatherford Technology Holdings, LLC	127924
4902 US	United States of America	Distributed Temperature Sensing in a Remotely Operated Well	11935660	Nov 6, 2007	7762743	Jul 27, 2010	Weatherford Technology Holdings, LLC	137148
4903 US-DIV1	United States of America	Oil Based Concentrated Slurries and Methods for Making and Top Drive Interlock	14269528	May 5, 2014	9605195	Mar 28, 2017	Weatherford Technology Holdings, LLC	283582
4906 US	United States of America	Top Drive Interlock	11940661	Nov 15, 2007	7882902	Feb 8, 2011	Weatherford Technology Holdings, LLC	137253
4918 US	United States of America	Pure Slice Core, High Birefringence, Single Polarization Optical System and Methods for Tubular Expansion	11614606	Dec 21, 2006	7437044	Oct 14, 2008	Weatherford Technology Holdings, LLC	137401
4918 US-COIN1	United States of America	Pure Slice Core, High Birefringence, Single Polarization Optical System and Methods for Tubular Expansion	12251334	Oct 14, 2006	7907807	Mar 15, 2011	Weatherford Technology Holdings, LLC	125424
4919 US	United States of America	System and Method for Tubular Expansion	11962920	Dec 21, 2007	8066916	Dec 6, 2011	Weatherford Technology Holdings, LLC	137261
4919 US-DIV1	United States of America	System and Method for Tubular Expansion	13293897	Nov 10, 2011	8522885	Sep 3, 2013	Weatherford Technology Holdings, LLC	128026
4929 US	United States of America	Flowmeter Array Processing Algorithm with Wide Dynamic Range	12025194	Feb 4, 2008	7868184	Feb 1, 2011	Weatherford Technology Holdings, LLC	128312
4929 US-COIN1	United States of America	Flowmeter Array Processing Algorithm with Wide Dynamic Range	13019176	Feb 4, 2011	8280650	Oct 2, 2012	Weatherford Technology Holdings, LLC	134689
4933 US	United States of America	Subterranean Well Tool Including a Locking Seal-Healing System	11679502	Feb 27, 2007	7779905	Aug 24, 2010	Weatherford Technology Holdings, LLC	127468
4933 US-DIV1	United States of America	Subterranean Well Tool Including a Locking Seal-Healing System	12864452	Aug 23, 2010	8191645	Jun 5, 2012	High Pressure Integrity, Inc.	136517
4937 US-CIP2	United States of America	Rotating Control Device Docking Station	12080170	Mar 31, 2008	7926593	Apr 19, 2011	Weatherford Technology Holdings, LLC	128925
4937 US-DIV1	United States of America	Rotating Control Device Docking Station	14604971	Jan 26, 2015	9784073	Oct 10, 2017	Weatherford Technology Holdings, LLC	381288
4937 US-DIV2	United States of America	Remote Operation of an Offhole Device	13084497	Mar 15, 2011	8408297	Apr 2, 2013	Weatherford Technology Holdings, LLC	128212
4937 US-DIV3	United States of America	Rotating Control Device Docking Station	13836569	Mar 15, 2013	8701796	Apr 22, 2014	Weatherford Technology Holdings, LLC	130034
4942 US	United States of America	Downhole Deployment Valves	14181865	Feb 24, 2014	8939235	Jan 27, 2015	Weatherford Technology Holdings, LLC	264123
4942 US-DIV1	United States of America	Downhole Deployment Valves	12098264	Apr 4, 2008	8261836	Sep 11, 2012	Weatherford Technology Holdings, LLC	136183
4942 US-DIV2	United States of America	Downhole Deployment Valves	13608740	Sep 10, 2012	8522878	Sep 3, 2013	Weatherford Technology Holdings, LLC	131144
4942 US-DIV3	United States of America	Downhole Deployment Valves	13608787	Sep 10, 2012	8544549	Oct 1, 2013	Weatherford Technology Holdings, LLC	128625
4942 US-DIV4	United States of America	Downhole Deployment Valves	13608784	Sep 10, 2012	8534362	Sep 17, 2013	Weatherford Technology Holdings, LLC	128357
4942 US-DIV5	United States of America	Downhole Deployment Valves	13960621	Jul 6, 2013	8789603	Jul 29, 2014	Weatherford Technology Holdings, LLC	138354
4943 US	United States of America	Apparatus and Methods of Milling a Restricted Casing Shoe	14324855	Jul 7, 2014	8905140	Dec 9, 2014	Weatherford Technology Holdings, LLC	326868
4943 US	United States of America	Apparatus and Methods of Milling a Restricted Casing Shoe	12098341	Apr 4, 2008	8146682	Apr 3, 2012	Weatherford Technology Holdings, LLC	136184
4945 US	United States of America	Wellhead Completion Assembly Capable of Versatile Arrangement	11925498	Oct 26, 2007	7779921	Aug 24, 2010	Weatherford Technology Holdings, LLC	136104
4945 US-COIN1	United States of America	Wellhead Completion Assembly Capable of Versatile Arrangement	12843197	Jul 26, 2010	9140092	Sep 22, 2010	Weatherford Technology Holdings, LLC	136695
4945 US-Res Issue	United States of America	Wellhead Completion Assembly Capable of Versatile Arrangement	14425111	Mar 26, 2014	8646241	Feb 20, 2016	Weatherford Technology Holdings, LLC	262560
4946 US	United States of America	Dual Control Line System and Method for Operating Surface	11941515	Aug 20, 2007	7878252	Dec 1, 2011	Weatherford Technology Holdings, LLC	136103
4947 US	United States of America	Foamed Fluid Additive for Underbalance Drilling	11239892	Apr 18, 2007	7992553	Aug 9, 2011	Weatherford Technology Holdings, LLC	136188
4952 US-COIN1	United States of America	Apparatus and Methods for Tubular Makeup Interlock	12882651	Aug 9, 2010	8356675	Jan 22, 2013	Weatherford Technology Holdings, LLC	132481
4953 US	United States of America	Single Mode Optical Fiber with Improved Bend Performance	11744297	May 9, 2007	7805039	Apr 29, 2010	Weatherford Technology Holdings, LLC	136810
4953 US-COIN1	United States of America	Single Mode Optical Fiber with Improved Bend Performance	12892752	Sep 28, 2010	8712204	Apr 29, 2014	Weatherford Technology Holdings, LLC	132333
5018 US	United States of America	Method of Anchoring a Progressing Cavity Pump	11828887	Jul 26, 2007	7905294	Mar 15, 2011	Weatherford Technology Holdings, LLC	137084
5018 US-DIV1	United States of America	Lockable Anchor for Resectable Progressing Cavity Pump	13102374	Feb 9, 2011	8082985	Dec 27, 2011	Weatherford Technology Holdings, LLC	134752
5019 US	United States of America	Continuous Flow Drilling Systems and Methods	12180121	Jul 25, 2008	8016033	Sep 13, 2011	Weatherford Technology Holdings, LLC	127605
5019 US-DIV1	United States of America	Continuous Flow Drilling Systems and Methods	13227260	Sep 7, 2011	8720545	May 13, 2014	Weatherford Technology Holdings, LLC	137659
5019 US-DIV2	United States of America	Continuous Flow Drilling Systems and Methods	14196026	Mar 4, 2014	9151124	Oct 6, 2015	Weatherford Technology Holdings, LLC	254196
5024 US	United States of America	Termination of Fiber Optic Cable	12145922	Jun 25, 2008	7805046	Sep 28, 2010	Weatherford Technology Holdings, LLC	132769
5024 US-DIV1	United States of America	Termination of Fiber Optic Cable	12892761	Sep 28, 2010	8301005	Oct 30, 2012	Weatherford Technology Holdings, LLC	136775
5026 US	United States of America	Packaging Element Booster	11849281	Sep 1, 2007	8891836	Nov 11, 2014	Weatherford Technology Holdings, LLC	137400
5041A-US	United States of America	Ultra Low Profile Rotating Control Device	11975946	Oct 23, 2007	8286734	Oct 16, 2012	Weatherford Technology Holdings, LLC	137121

5041A-US-DIV1	United States of America	Low Profile Rotating Control Device	13621016	Sep 15, 2002	9004181	Apr 14, 2015	Weatherford Technology Holdings, LLC	1306584
5041B-US-DIV1	United States of America	Interlocking Low Profile Rotating Control Device	12983391	Sep 29, 2010	8846452	Sep 30, 2014	Weatherford Technology Holdings, LLC	1325960
5042-US-CON1	United States of America	Low Profile Rotating Control Device	14486681	Sep 25, 2014	10087701	Oct 2, 2015	Weatherford Technology Holdings, LLC	1343415
5042-US	United States of America	Universal Marine Divertor/Converter Rotating Control Device	11975554	Oct 19, 2007	7997345	Aug 16, 2011	Weatherford Technology Holdings, LLC	1256500
5043-US	United States of America	Location Marker for DTS System	12028401	Feb 8, 2008	7769232	Aug 3, 2010	Weatherford Technology Holdings, LLC	1351129
5043-US	United States of America	Method for Jarring with a Downhole Pulling Tool	12023864	Jan 31, 2008	7874364	Jan 25, 2010	Weatherford Technology Holdings, LLC	1235121
5053-US	United States of America	Remotely Operated Single Joint Elevator	12253857	Oct 24, 2008	8215687	Jul 10, 2012	Weatherford Technology Holdings, LLC	1354273
5053-US-DIV1	United States of America	Remotely Operated Single Joint Elevator	13489514	Jun 13, 2012	8486280	Jul 30, 2013	Weatherford Technology Holdings, LLC	1316666
5088-US-CON1	United States of America	Sonar Circumferential Flow Conditioner	12015578	Feb 23, 2008	7926360	Oct 27, 2010	Weatherford Technology Holdings, LLC	1289171
5093-US	United States of America	Sonar Circumferential Flow Conditioner	12573723	Oct 5, 2009	8210268	Apr 19, 2011	Weatherford Technology Holdings, LLC	1328044
5093-US-CON1	United States of America	Method of Using a Top Drive System	15331953	Oct 24, 2016	104000512	Jul 3, 2018	Weatherford Technology Holdings, LLC	1382151
5093-US-DIV1	United States of America	Method of Using a Top Drive System	13487255	Apr 26, 2012	8727021	Sep 3, 2018	Weatherford Technology Holdings, LLC	823592
5093-US-DIV2	United States of America	Method of Using a Top Drive System	14273351	May 8, 2014	9528326	May 20, 2014	Weatherford Technology Holdings, LLC	128440
5094-US	United States of America	Mechanical Expansion System	11957519	Dec 17, 2007	7992644	Dec 27, 2014	Weatherford Technology Holdings, LLC	1371222
5112-US	United States of America	Retrievable Surface Controlled Subsurface Safety Valve for Well	12395981	Dec 16, 2008	8281646	Oct 9, 2012	Weatherford Technology Holdings, LLC	1254537
5113-US	United States of America	Expandable Packer	12389690	Feb 19, 2009	8201636	Jun 19, 2012	Weatherford Technology Holdings, LLC	1365699
5113-US-CON1	United States of America	Expandable Packer	13523656	Jun 14, 2012	8967281	Aug 9, 2014	Weatherford Technology Holdings, LLC	1371222
5113-US-CON2	United States of America	Expandable Packer	13942456	Jul 15, 2013	9903176	Mar 3, 2015	Weatherford Technology Holdings, LLC	1345618
5113-US-CON3	United States of America	Expandable Packer	14622012	Feb 13, 2015	9903176	Feb 27, 2015	Weatherford Technology Holdings, LLC	1382151
5115A-US-DIV1	United States of America	Capillary Hanger Arrangement for Deploying Control Line in E	12408527	Mar 20, 2009	8312932	Nov 20, 2012	Weatherford Technology Holdings, LLC	133316
5115A-US-CON1	United States of America	Method for Deploying Subsurface Safety Valve Having Integral	14157726	Jan 17, 2014	9745825	Aug 29, 2017	Weatherford Technology Holdings, LLC	291375
5115A-US-DIV2	United States of America	Capillary Hanger Arrangement for Deploying Control Line in E	13594919	Jul 14, 2012	8646536	Feb 11, 2014	Weatherford Technology Holdings, LLC	137657
5115-US	United States of America	Subsurface Safety Valve with Integral Pack-Off	12128811	May 29, 2008	8100181	Jan 24, 2010	Weatherford Technology Holdings, LLC	132794
5117-US	United States of America	Methods and Apparatus for a Downhole Tool	12058368	Mar 28, 2008	7836962	Nov 23, 2010	Weatherford Technology Holdings, LLC	1361888
5117-US-DIV1	United States of America	Methods and Apparatus for a Downhole Tool	12998664	Oct 20, 2010	8316943	Nov 27, 2012	Weatherford Technology Holdings, LLC	1350059
5120-US	United States of America	Method and Apparatus for Retrieving an Assembly from a Well	12184785	Aug 7, 2008	7997336	Aug 16, 2011	Weatherford Technology Holdings, LLC	1368232
5120-US-CON1	United States of America	Apparatus for Handling and Reeling Pipes	10997930	Nov 29, 2004	7331746	Feb 19, 2008	Weatherford Canada Ltd.	125397
5120-US-CON2	United States of America	Apparatus for Handling and Reeling Pipes	11785406	Apr 18, 2007	7794192	Sep 14, 2010	Weatherford Canada Ltd.	1362172
5122-US-DIV2	United States of America	Vertical Offshore Stand Building and Manipulating System	12285505	Oct 1, 2008	7967540	Jun 28, 2011	Weatherford Canada Ltd.	1362172
5122-US-DIV3	United States of America	Apparatus for Handling and Reeling Pipes	12385282	Apr 3, 2009	7967541	Jun 28, 2011	Weatherford Canada Ltd.	1333356
5123-US	United States of America	Tubular Handling Apparatus	12435346	May 4, 2009	8365834	Feb 5, 2013	Weatherford Technology Holdings, LLC	1335359
5123-US-DIV1	United States of America	Tubular Handling Apparatus	13793342	May 9, 2013	8726236	Jun 17, 2014	Weatherford Technology Holdings, LLC	131477
5124-US-CON1	United States of America	Apparatus and Methods for Wedge Lock Prevention	13760852	Feb 15, 2013	8708055	Apr 29, 2014	Weatherford Technology Holdings, LLC	1290741
5124-US-CON2	United States of America	Apparatus and Methods for Wedge Lock Prevention	13910862	Jun 5, 2013	8708055	Jul 15, 2014	Weatherford Technology Holdings, LLC	1305743
5125-US	United States of America	Fill Up and Circulation Tool and Mudsaver Valve	12435275	May 4, 2009	8141642	Mar 27, 2012	Weatherford Technology Holdings, LLC	135498
5126-US	United States of America	Tools and Methods for Hanging and/or Expanding Liner String	12436073	May 5, 2009	828617	Oct 16, 2012	Weatherford Technology Holdings, LLC	133575
5126-US-CON1	United States of America	Tools and Methods for Hanging and/or Expanding Liner String	13649670	Oct 11, 2012	8567515	Oct 29, 2012	Weatherford Technology Holdings, LLC	130547
5126-US-CON2	United States of America	Tools and Methods for Hanging and/or Expanding Liner String	13973120	Aug 22, 2013	8783343	Jul 22, 2014	Weatherford Technology Holdings, LLC	150926
5127-US	United States of America	Method of Controlling Torque Applied to a Tubular Connector	12429706	Apr 24, 2009	8297347	Oct 30, 2012	Weatherford Technology Holdings, LLC	133271
5129-US	United States of America	Monobore Construction with Dual Expanders	12428839	Apr 23, 2009	8020625	Sep 20, 2011	Weatherford Technology Holdings, LLC	135333
5138-PCT-US	United States of America	Method of Removing Cutters	12997331	Mar 28, 2011	8027843	May 12, 2015	Weatherford Technology Holdings, LLC	137344
5142-US	United States of America	Method of Removing Cutters	12920080	Oct 13, 2008	7980302	Jul 19, 2011	Weatherford Technology Holdings, LLC	136932
5142-US-CON1	United States of America	Expandable Liner Flange and Method of Use	12575977	Oct 8, 2009	8443881	May 21, 2013	Weatherford Technology Holdings, LLC	136413
5142-US-CON2	United States of America	Expandable Liner Flange and Method of Use	13158018	Jun 10, 2011	8356663	May 22, 2013	Weatherford Technology Holdings, LLC	136525
5142-US-CON3	United States of America	Expandable Liner Flange and Method of Use	13720568	Dec 19, 2012	9308566	Apr 12, 2016	Weatherford Technology Holdings, LLC	129459
5142-US	United States of America	Expandable Liner Flange and Method of Use	13986452	May 17, 2013	925467	Feb 9, 2016	Weatherford Technology Holdings, LLC	139631
5146-US-CON1	United States of America	Expansion Joint with Optic/Hydraulic Bypass	14286655	May 23, 2014	7810560	Oct 12, 2010	Weatherford Technology Holdings, LLC	126893
5146-US-CON2	United States of America	Expansion Joint with Optic/Hydraulic Bypass	14286655	May 23, 2014	9353603	May 31, 2016	Weatherford Technology Holdings, LLC	294275
5158-PCT-US	United States of America	Landing String Compressor	15169169	May 31, 2016	9650873	May 16, 2017	Weatherford Technology Holdings, LLC	797163
5158-PCT-US-CON1	United States of America	Wellbore Isolation Tool Using Sealing Element Having Shape N	13285656	Oct 31, 2011	8765687	Jul 1, 2014	Weatherford Technology Holdings, LLC	127998
5158-PCT-US-CON2	United States of America	Wellbore Isolation Tool Using Sealing Element Having Shape N	14293566	Jun 4, 2014	9567821	Feb 14, 2017	Weatherford Technology Holdings, LLC	260172
5161-US	United States of America	Apparatus and Method for Data Transmission From a Rotating	15200566	Jul 9, 2009	9074443	Jul 7, 2015	Weatherford Technology Holdings, LLC	139322
5161-US-CON1	United States of America	Apparatus and Method for Data Transmission From a Rotating	14790811	Jul 2, 2015	9371697	Jun 21, 2016	Weatherford Technology Holdings, LLC	493539
5161-US-CON2	United States of America	Apparatus and Method for Data Transmission From a Rotating	15183820	Jun 21, 2016	9988871	Jun 5, 2018	Weatherford Technology Holdings, LLC	7799901
5164-US	United States of America	Methods and Apparatus for Supporting Tubulars	12201817	Sep 10, 2008	7936577	Apr 19, 2011	Weatherford Technology Holdings, LLC	125406
5168-PCT-US	United States of America	Wellhead Downhole Line Communication Arrangement	13142129	Jul 18, 2011	8925628	Jan 6, 2015	Weatherford Technology Holdings, LLC	137665
5168-PCT-US-CON1	United States of America	Wellhead Downhole Line Communication Arrangement	14560038	Dec 4, 2014	9695672	Jul 4, 2017	Weatherford Technology Holdings, LLC	137665
5171-US	United States of America	Methods and Apparatus for Make Up and Break Out of Tubul	12243441	Oct 2, 2008	7975572	Jul 12, 2010	Weatherford Technology Holdings, LLC	136938
5190-US-CON1	United States of America	Expandable Cutting Tools for Use in a Wellbore	16112468	Dec 31, 2009	8727026	May 20, 2014	Weatherford Technology Holdings, LLC	136444
5190-US-CON2	United States of America	Expandable Cutting Tools for Use in a Wellbore	12516107	Nov 10, 2009	8540035	Sep 24, 2013	Weatherford Technology Holdings, LLC	136662
5190-US-DIV1	United States of America	Expandable Cutting Tools for Use in a Wellbore	16112468	Aug 24, 2018	8794334	Aug 5, 2014	Weatherford Technology Holdings, LLC	1085885
5190-US-DIV2	United States of America	Expandable Cutting Tools for Use in a Wellbore	13748193	Jan 23, 2013	10060190	Aug 28, 2018	Weatherford Technology Holdings, LLC	128297
5191-US	United States of America	Drop Ball Catcher Apparatus	10315666	Dec 10, 2004	6920930	Jul 26, 2005	Weatherford Technology Holdings, LLC	133967
5192-US	United States of America	Guide Tube for Continuous Rod	12352464	Jan 12, 2009	8006752	Aug 30, 2011	Weatherford Technology Holdings, LLC	134742
5206-US-CON1	United States of America	Apparatus and Method for Providing an Alternate Flow Path	12615460	Mar 21, 2013	8403046	Mar 26, 2013	Weatherford U.K. Limited	135207
5206-US-CON2	United States of America	Apparatus and Method for Providing an Alternate Flow Path	13948552	Mar 21, 2013	8590617	Mar 26, 2013	Weatherford U.K. Limited	135904



5208 US-CP3	United States of America	Latch Position Indicator System and Method	12322860	Feb 6, 2009	8826988	Sep 9, 2014	Weatherford Technology Holdings, LLC	1235951
5208 US-CO1	United States of America	Latch Position Indicator System and Method	14477515	Sep 4, 2014	9404346	Aug 2, 2016	Weatherford Technology Holdings, LLC	1330093
5209 US-DV1	United States of America	Latch Position Indicator System and Method	15165869	May 26, 2016	10024154	Jul 17, 2016	Weatherford Technology Holdings, LLC	778829
5209 US	United States of America	Drilling with High Pressure Rotating Control Device	12462566	Jul 31, 2009	8347983	Jan 8, 2013	Weatherford Technology Holdings, LLC	1254959
5209 US-CO1	United States of America	System and Method for Cooling a Rotating Control Device	14163617	Jan 24, 2014	9334711	May 10, 2016	Weatherford Technology Holdings, LLC	243505
5209 US-CO2	United States of America	Fluid Supply to Sealed Tubulars	15132988	Apr 19, 2016	9845653	Dec 19, 2017	Weatherford Technology Holdings, LLC	771445
5209 US-DV1	United States of America	Rotating Control System and Method for Providing a Differential	13725303	Jan 7, 2013	8636087	Jan 28, 2014	Weatherford Technology Holdings, LLC	1322206
5211 US	United States of America	Subsea Drilling with Casing	12620581	Nov 17, 2009	8839880	Sep 23, 2014	Weatherford Technology Holdings, LLC	136704
5211 US-DV1	United States of America	Subsea Drilling with Casing	14494230	Sep 23, 2014	8011431	Sep 6, 2011	Weatherford Technology Holdings, LLC	134459
5212 US	United States of America	Process and System for Creating Enhanced Cavitation	12357556	Jan 22, 2009	8011431	Sep 6, 2011	Weatherford Technology Holdings, LLC	134459
5214 US	United States of America	Hydraulic Downhole Pump	12402316	Mar 11, 2009	8303272	Nov 6, 2012	Weatherford Technology Holdings, LLC	125445
5215 US	United States of America	Horizontal Offshore Stand Building System	12318465	Dec 30, 2008	7992646	Aug 9, 2011	Weatherford Canada Ltd.	133509
5224 US-DV1	United States of America	Subsea Internal Riser Rotating Control Device System and Method	12649093	Dec 21, 2009	8322432	Dec 4, 2012	Weatherford Technology Holdings, LLC	1386438
5232 US	United States of America	Subsea Internal Riser Rotating Control Heat Seal Assembly	13597881	Aug 29, 2012	8770297	Jul 8, 2014	Weatherford Technology Holdings, LLC	128328
5234 US	United States of America	Method and Apparatus for a Packer Assembly	12411345	Mar 25, 2009	8186446	May 29, 2012	Weatherford Technology Holdings, LLC	133835
5238 US-CP1	United States of America	Method and Apparatus for Isolating and Treating Discrete Zones	12411338	Mar 25, 2009	9251044	Mar 22, 2016	Weatherford Technology Holdings, LLC	133476
5238 US-CP1-DV1	United States of America	Signal Operated Tools for Milling, Drilling, and/or Fishing Operations	12434677	May 5, 2009	8991489	Mar 31, 2015	Weatherford Technology Holdings, LLC	135621
5239 US-CP1	United States of America	Signal Operated Drilling Tools for Milling, Drilling, and/or Fishing Operations	14673288	Mar 30, 2015	10145196	Dec 4, 2018	Weatherford Technology Holdings, LLC	417864
5239 US-CO1	United States of America	Swelible Downhole Apparatus and Support Assembly	13924101	Apr 28, 2010	8960315	Oct 22, 2011	Weatherford U.K. Limited	136432
5244 US	United States of America	System and Method for Scale Inhibition	12750335	Mar 30, 2010	9447657	Feb 24, 2016	Weatherford U.K. Limited	135934
5246 US	United States of America	Retrievable Bridge Plug	12519517	Aug 11, 2009	8505623	Sep 20, 2016	Weatherford Technology Holdings, LLC	136732
5246 US-DV1	United States of America	Retrievable Bridge Plug	13953440	Jul 29, 2013	9279307	Aug 13, 2013	Weatherford Technology Holdings, LLC	136733
5251 US	United States of America	Methods and Apparatus for Subsea Well Intervention and Scale	12490508	Jun 24, 2009	8307903	Mar 8, 2016	Weatherford Technology Holdings, LLC	147129
5251 US-DV1	United States of America	Methods and Apparatus for Subsea Well Intervention and Scale	13649927	Oct 11, 2012	8662182	Nov 13, 2014	Weatherford Technology Holdings, LLC	135117
5263 US	United States of America	Downhole Tool	10781937	Feb 20, 2004	7143829	Dec 5, 2008	Weatherford Switzerland Trading and Development GmbH	137150
5263 US-CO1	United States of America	Downhole Tool	11586511	Oct 26, 2006	740436	Jul 29, 2008	Weatherford Switzerland Trading and Development GmbH	135262
5269 US	United States of America	Downhole Cleaning Tool and Method of Use	12204333	Sep 4, 2008	8002037	Aug 23, 2011	Weatherford Switzerland Trading and Development GmbH	133090
5272 US	United States of America	Downhole Tool	12154725	May 27, 2008	7798230	Sep 21, 2011	Weatherford Switzerland Trading and Development GmbH	132874
5274 US-DV1	United States of America	Torque Limiting Device	13686544	Nov 27, 2012	9453374	Sep 27, 2016	Weatherford U.K. Limited	131145
5276 US	United States of America	Continuous Rod Transport System	12568053	Sep 28, 2009	8664428	Jul 31, 2016	Weatherford U.K. Limited	806805
5278 US-CP1	United States of America	Continuous Rod Transport System	12912848	Oct 27, 2010	8869580	Oct 21, 2014	Weatherford Technology Holdings, LLC	136592
5278 US-DV1	United States of America	Continuous Rod Transport System	14502995	Sep 30, 2014	9637038	Oct 28, 2014	Weatherford Technology Holdings, LLC	132872
5281A US-CP1	United States of America	Continuous Rod Transport System	14502935	Sep 30, 2014	9873366	May 2, 2014	Weatherford Technology Holdings, LLC	359453
5281A US-CO1	United States of America	Cluster Opening Sleeves for Wellbore Treatment and Method	13087535	Apr 15, 2011	8245788	Jan 23, 2018	Weatherford Technology Holdings, LLC	359454
5281 US	United States of America	Cluster Opening Sleeves for Wellbore Treatment and Method	13582720	Aug 16, 2012	8714272	May 6, 2014	Weatherford Technology Holdings, LLC	128152
5282 US	United States of America	CLUSTER OPENING SLEEVES FOR WELLBORE TREATMENT AND	12613633	Nov 6, 2009	8215411	Jul 10, 2012	Weatherford Technology Holdings, LLC	131742
5283 PCT-US	United States of America	Sealing System	11570335	Apr 16, 2007	8678099	Jul 10, 2012	Weatherford Technology Holdings, LLC	132750
5283 PCT-US	United States of America	Apparatus for Controlling a Downhole Device	11919642	Dec 10, 2007	8678099	Mar 25, 2014	Weatherford Technology Holdings, LLC	136672
5284 PCT-US	United States of America	Remote Actuation of a Downhole Tool	116657516	Sep 22, 2005	8245788	Jul 12, 2011	Weatherford Technology Holdings, LLC	134970
5284 PCT-US-DV1	United States of America	Antenna for Use in a Downhole Tubular	14380336	Jun 18, 2014	10263168	Aug 25, 2015	Weatherford Technology Holdings, LLC	136651
5285 PCT-US	United States of America	Packer	11909820	Apr 10, 2006	8192413	Apr 16, 2019	Weatherford Technology Holdings, LLC	243245
5286 PCT-US	United States of America	Wellbore Anchors	11816421	Mar 31, 2008	8690424	Nov 24, 2015	Weatherford Technology Holdings, LLC	136660
5287 PCT-US	United States of America	Bi-Directional Flapper Valve	12265777	Oct 22, 2008	8191570	Apr 6, 2010	Weatherford Technology Holdings, LLC	132765
5288 PCT-US	United States of America	Packer	12294078	Mar 22, 2007	8651178	Jun 5, 2012	Weatherford Technology Holdings, LLC	131534
5288 PCT-US-CO1	United States of America	Packer	14150053	Jan 8, 2014	9562411	Feb 18, 2014	Weatherford Technology Holdings, LLC	136789
5290 PCT-US	United States of America	Wellhead Assembly and Method	11794847	Jul 6, 2007	8007798	Feb 7, 2017	Weatherford Technology Holdings, LLC	225464
5297 US	United States of America	Methods and Apparatus Relating to Expansion Tools for Tubulars	12733860	Mar 15, 2010	8714243	Sep 21, 2014	Weatherford Technology Holdings, LLC	133967
5297 US-CO1	United States of America	Methods and Apparatus Relating to Expansion Tools for Tubulars	14227720	Mar 27, 2014	9169722	May 6, 2014	Weatherford Technology Holdings, LLC	135027
5300 US	United States of America	Hydraulic Tensioning Flange Connector	13019795	Feb 2, 2011	8616590	Oct 27, 2015	Weatherford Technology Holdings, LLC	241056
5300 US-DV1	United States of America	Hydraulic Tensioning Flange Connector	14089386	Nov 25, 2013	8899348	Dec 31, 2013	Weatherford Technology Holdings, LLC	132578
5303 US	United States of America	Surface Gas Evaluation During Controlled Pressure Drilling	12905017	Oct 14, 2010	8328995	Apr 21, 2015	Weatherford Technology Holdings, LLC	252354
5304 US	United States of America	Calculation of Downhole Pump Fillage and Control of Pump Behavior	12919519	Oct 15, 2010	8328527	Dec 2, 2014	Weatherford Technology Holdings, LLC	132877
5305 US	United States of America	Debris Barrier for Downhole Tools	12617539	Nov 12, 2009	9052740	Dec 11, 2012	Weatherford Technology Holdings, LLC	136709
5306 US-CP1	United States of America	Wavelength Sensitive Light Source and Filter Based on Sweep Filter	12866941	Jan 13, 2010	8379397	Jan 16, 2015	Weatherford Technology Holdings, LLC	132807
5306 US-CO1	United States of America	Wavelength Sensitive Control	13782038	Feb 7, 2013	9007679	Feb 19, 2013	Weatherford Technology Holdings, LLC	132805
5309 US-CO1	United States of America	Method and Apparatus for a Wellbore Assembly	12959973	Nov 4, 2010	8931569	Apr 14, 2015	Weatherford Technology Holdings, LLC	130261
5309 US-DV1	United States of America	Method and Apparatus with an Accumulator System for Actuating	15964121	May 18, 2018	10753179	Jan 13, 2015	Weatherford Technology Holdings, LLC	137589
5310 US	United States of America	Wellhead Control Line Deployment	12779544	Jun 20, 2010	8627890	Aug 25, 2020	Weatherford Technology Holdings, LLC	1034864
5312 US	United States of America	Wellhead Control Line Deployment	13922678	Jun 20, 2013	9382775	Jul 5, 2016	Weatherford Technology Holdings, LLC	135855
5313 US-CP1	United States of America	Rotating Continuous Flow Sub	12964429	Jan 4, 2011	8476599	Aug 16, 2016	Weatherford Technology Holdings, LLC	250084
5313 US-DV1	United States of America	Rotating Continuous Flow Sub	14155083	Jan 14, 2014	9416599	Aug 16, 2016	Weatherford Technology Holdings, LLC	250084
5315 US	United States of America	Selective and Non-Selective Lock Material Assembly Having a	12989974	Aug 26, 2010	8474542	Jul 2, 2013	Weatherford Technology Holdings, LLC	136492
5317 US	United States of America	Some Acoustic Monitoring Using Optical Distributed Acoustical	13106642	May 12, 2011	8849485	Sep 30, 2014	Weatherford Technology Holdings, LLC	128186
5317 US	United States of America	Lubricating Seal for Use with a Tubular	12824934	Jun 28, 2010	9175542	Nov 3, 2015	Weatherford Technology Holdings, LLC	133219

5319 US	United States of America	Retrievable Slip Mechanism for Downhole Tool	12838724	Jul 19, 2010		8893779	Nov 25, 2014	Weatherford Technology Holdings, LLC	133218
5326 US-CON1	United States of America	Section Mill and Method for Abandoning a Wellbore	13047658	Mar 14, 2011		9022117	May 5, 2015	Weatherford Technology Holdings, LLC	136529
5326 US-CON2	United States of America	Section Mill and Method for Abandoning a Wellbore	16025870	Jul 2, 2018		10890042	Jan 12, 2021	Weatherford Technology Holdings, LLC	1050264
5326 US-DV1	United States of America	Section Mill and Method for Abandoning a Wellbore	17119957	Dec 11, 2020				Weatherford Technology Holdings, LLC	1592820
5333 US	United States of America	Multiphase Flow Meter for Subsea Applications Using Hydraulic	14677020	Apr 2, 2015		10012048	Jul 3, 2018	Weatherford Technology Holdings, LLC	413212
5334 US-CON1	United States of America	Optical Fiber Coating to Prevent Adhesion at High Temperature	12739041	Mar 24, 2010		9104008	Apr 7, 2015	Weatherford Technology Holdings, LLC	1325955
5335 US	United States of America	Gas String Hydrate Safety System	14793900	Jul 8, 2015		9435973	Sep 6, 2016	Weatherford Technology Holdings, LLC	472787
5336 US	United States of America	Arrangement of Isolation Sleeve and Cluster Sleeves Having P	12877115	Sep 8, 2010		8893810	Nov 25, 2014	Weatherford Technology Holdings, LLC	132597
5339 US	United States of America	Dynamic Load Isolation Test Bench and Method of Expansion	12789046	Mar 26, 2010		9044802	Jun 2, 2014	Weatherford Technology Holdings, LLC	135048
5341 US	United States of America	Resin Sealant for Zonal Isolation and Methods for Making and	12784479	May 20, 2010		8899328	Dec 2, 2014	Weatherford Technology Holdings, LLC	132566
5341 US-CON1	United States of America	Resin Sealant for Zonal Isolation and Methods for Making and	14531027	Nov 3, 2014		10301526	May 28, 2015	Weatherford Technology Holdings, LLC	364540
5348 US-CON1	United States of America	Wellhead Rotating Breech Lock and Method	13307765	Nov 30, 2011		9255836	Sep 16, 2014	Weatherford Technology Holdings, LLC	136027
5349 US	United States of America	Compositions and Method for Breaking Hydraulic Fracturing	14338853	Jul 11, 2014		9175208	Nov 3, 2015	Weatherford Technology Holdings, LLC	328191
5359 US	United States of America	Deepwater Completion Installation and Intervention System	13149591	May 31, 2011		9068398	Jun 30, 2015	Weatherford Technology Holdings, LLC	128202
5360 US	United States of America	Direct Slurry Weight Sensor for Well Operation Mixing Process	14212672	Mar 14, 2014		9695670	Jul 4, 2017	Weatherford Technology Holdings, LLC	254293
5362 US	United States of America	Multiple Control Line Assembly for Downhole Equipment	13226810	Sep 7, 2011		8640769	Feb 4, 2014	Weatherford Technology Holdings, LLC	132403
5368 US	United States of America	Reversible Rod Tong Law System	12961640	Dec 7, 2010		8387488	Mar 5, 2013	Weatherford Technology Holdings, LLC	137601
5370 US	United States of America	Flow Control Apparatus	13187773	Jul 21, 2011		8967265	Mar 3, 2015	Weatherford U.K. Limited	132146
5375 US	United States of America	Isolation Valve with Debris Control and Flow Tube Protection	12985899	Jul 29, 2010		8780051	Apr 29, 2014	Weatherford Technology Holdings, LLC	137617
5375 US-CON1	United States of America	Isolation Valve with Debris Control and Flow Tube Protection	14169511	Feb 21, 2014		9394762	Jan 19, 2016	Weatherford Technology Holdings, LLC	259314
5376 US-CON2	United States of America	Isolation Valve with Debris Control and Flow Tube Protection	15211461	Feb 15, 2016		10180041	Jan 15, 2016	Weatherford Technology Holdings, LLC	799633
5376 US	United States of America	Anchor For Use with Expandable Tubular	13197930	Aug 3, 2011		8899336	Dec 2, 2014	Weatherford Technology Holdings, LLC	128041
5382 US-CON1	United States of America	Apparatus and Methods for Restricting Flow in a Bore	13986650	Apr 19, 2013			Sep 22, 2015	Weatherford Technology Holdings, LLC	135924
5384 US-DV1	United States of America	Positive Retraction Latch Locking Dog for a Rotating Control D	13183787	Jul 15, 2011		9010433	Apr 21, 2015	Weatherford Technology Holdings, LLC	134899
5384 US-DV2	United States of America	Positive Retraction Latch Locking Dog for a Rotating Control D	14691202	Mar 4, 2016		9518436	Dec 13, 2016	Weatherford Technology Holdings, LLC	425183
5388 US-CON1	United States of America	Signal Operated Isolation Valve	13278447	Sep 8, 2011		8928750	Mar 17, 2015	Weatherford Technology Holdings, LLC	132127
5388 US-CON2	United States of America	Signal Operated Isolation Valve	16207812	Dec 3, 2018		10890048	Jan 12, 2021	Weatherford Technology Holdings, LLC	1108355
5389 US-DV1	United States of America	Signal Operated Isolation Valve	14659955	Mar 17, 2015		10151171	Dec 11, 2015	Weatherford Technology Holdings, LLC	402864
5389 US-CON1	United States of America	Fill Up Tool	14481491	Sep 9, 2014		9746810	Aug 29, 2017	Weatherford Technology Holdings, LLC	330085
5391 US	United States of America	Method and Apparatus for Isolating and Treating Discrete Zon	13274119	Oct 14, 2011		10626690	Feb 23, 2016	Weatherford Technology Holdings, LLC	133458
5394 US-CON1	United States of America	Acoustically-Controlled Subsea Rotating Control Device Latch	13232846	Sep 15, 2011		9267348	Jun 7, 2016	Weatherford Technology Holdings, LLC	136279
5410 US	United States of America	Treat Packer and Method of Use	13345578	Jan 6, 2012		8951166	Oct 7, 2014	Weatherford Technology Holdings, LLC	128000
5410 US-DV1	United States of America	Treat Packer and Method For Use	14502351	Mar 1, 2016		9371711	Jun 21, 2016	Weatherford Technology Holdings, LLC	359919
5412 US-DV2	United States of America	Treat Packer and Method of Use	15161909	May 23, 2016		10167696	Jan 1, 2019	Weatherford Technology Holdings, LLC	790312
5412 US-CON1	United States of America	Electronic Control System for a Tubular Handling Tool	13327956	Dec 15, 2011		9404322	Aug 2, 2016	Weatherford Technology Holdings, LLC	132023
5412 US-CON2	United States of America	Electronic Control System for a Tubular Handling Tool	16127522	Oct 26, 2018		10801277	Oct 13, 2020	Weatherford Technology Holdings, LLC	1090407
5412 US-DV1	United States of America	Electronic Control System for a Tubular Handling Tool	15193722	Jun 27, 2016		10697256	Jun 30, 2020	Weatherford Technology Holdings, LLC	772505
5412 US-DV2	United States of America	Drive Shaft Universal Joint Assembly with Radial Elliptical Pro	15193778	Jun 27, 2016		10253581	Apr 9, 2019	Weatherford Technology Holdings, LLC	772806
5418 US-CON1	United States of America	Multiple Sectioned Wire-Wrapped Screens	13170608	Jun 28, 2011		8602096	Dec 10, 2016	Weatherford Technology Holdings, LLC	136500
5419 US	United States of America	Produced Sand Gravel Pack Process	14072282	Nov 5, 2013			Aug 16, 2016	Weatherford Technology Holdings, LLC	221400
5432 US	United States of America	Dry Polymer Mixing Process	13094806	Oct 17, 2012		9334713	May 10, 2016	Weatherford Technology Holdings, LLC	136489
5434 US-CON1	United States of America	Framed Resin Sealant and Methods for Making	13053975	Mar 22, 2011		9021220	May 5, 2015	Weatherford Technology Holdings, LLC	136129
5435 US-CON2	United States of America	Debris Barrier Assembly	13007998	Jan 17, 2011		8807231	Aug 19, 2014	Weatherford Technology Holdings, LLC	135280
5435 US-CON3	United States of America	Debris Barrier Assembly	14304663	Jan 13, 2014		10030480	Jul 24, 2018	Weatherford Technology Holdings, LLC	283570
5436 US-CON1	United States of America	Extrusion-Resistant Seal for Expandable Tubular Assembly	13029022	Feb 16, 2011		9528352	Dec 27, 2016	Weatherford Technology Holdings, LLC	134652
5436 US-CON2	United States of America	Extrusion-Resistant Seal for Expandable Tubular Assembly	13398833	Feb 16, 2012		8997882	Apr 7, 2015	Weatherford Technology Holdings, LLC	132547
5436 US-DV1	United States of America	Anchoring Seal	13398831	Feb 16, 2012		9567823	Feb 14, 2017	Weatherford Technology Holdings, LLC	131718
5436 US-CON3	United States of America	Anchoring and Sealing Tool	16504013	Jul 5, 2019		9920588	Mar 20, 2018	Weatherford Technology Holdings, LLC	844535
5436 US-CON4	United States of America	Anchoring and Sealing Tool	16180272	Nov 5, 2018			Jun 8, 2021	Weatherford Technology Holdings, LLC	1104083
5436 US-DV2	United States of America	Extrusion-Resistant Seal for Expandable Tubular Assembly	15381755	Dec 16, 2016		10174579	Jan 8, 2019	Weatherford Technology Holdings, LLC	944534
5445 US	United States of America	Magnetic Hanging Method and Apparatus	13016731	Jan 28, 2011		8952700	Feb 10, 2015	Weatherford Technology Holdings, LLC	134224
5448 US	United States of America	Expandable Open-hole Anchor	13095803	Apr 27, 2011		9850726	Dec 26, 2016	Weatherford Technology Holdings, LLC	137101
5448 US-CON1	United States of America	Managed Pressure Cementing	15011750	Nov 14, 2002		9249646	Feb 2, 2016	Weatherford Technology Holdings, LLC	1361101
5450 US-CON2	United States of America	Method of Incorporating Remote Communication with Offhole	14119392	Apr 1, 2016		9951600	Apr 24, 2018	Weatherford Technology Holdings, LLC	754108
5450 US-CON3	United States of America	Method of Incorporating Remote Communication with Offhole	15257884	Sep 6, 2016		9464520	Oct 11, 2016	Weatherford Technology Holdings, LLC	134870
5451 US	United States of America	Expansion System for an Expandable Tubular Assembly	13095839	Apr 27, 2011		8875783	Mar 27, 2014	Weatherford Technology Holdings, LLC	814443
5452 US-CON1	United States of America	Remotely Operated Isolation Valve	13227347	Sep 20, 2011		9163481	Oct 20, 2015	Weatherford Technology Holdings, LLC	136259
5452 US-CON2	United States of America	Remotely Operated Isolation Valve	16259518	Jan 28, 2019		10895130	Jan 19, 2021	Weatherford Technology Holdings, LLC	1140247
5452 US-DV1	United States of America	Remotely Operated Isolation Valve	17147676	Jan 13, 2021			Weatherford Technology Holdings, LLC	1621821	
5452 US-DV2	United States of America	Remotely Operated Isolation Valve	14885024	Oct 16, 2015		10214999	Feb 26, 2019	Weatherford Technology Holdings, LLC	515029

5455 US	United States of America	LWD Borehole Imager	13236153	Sep 19, 2011	9500762	Nov 22, 2016	Weatherford Technology Holdings, LLC	134616
5460 US	United States of America	Shoulder Yielding Detection During Tubular MakeUp	13460924	May 1, 2012	8276743	May 20, 2014	Weatherford Technology Holdings, LLC	128439
5462 US	United States of America	Velocity Strips	13478894	May 23, 2012	9228405	Jan 9, 2016	Weatherford Technology Holdings, LLC	128269
5465 US	United States of America	Dual Purpose Steam Injection and Production Tool	13115677	May 25, 2011	9027642	May 12, 2016	Weatherford Technology Holdings, LLC	128210
5466 US	United States of America	Fabrication and Design of Erosion Resistant Flow Port	13202965	Nov 9, 2011	9097104	Aug 4, 2016	Weatherford Technology Holdings, LLC	128147
5468 US	United States of America	Reciprocating Rod Pump Concept for Sticky Fluids	13209641	Aug 9, 2011	8858187	Oct 14, 2014	Weatherford Technology Holdings, LLC	134304
5471 US	United States of America	Gas Lift Valve Having Edge-Welded Bellows and Capable Slidin	13198468	Aug 4, 2011	9010353	Apr 21, 2015	Weatherford Technology Holdings, LLC	128062
5472 US	United States of America	Dual Flow Gas Lift Valve	13270254	Oct 11, 2011	9052355	Jun 16, 2015	Weatherford Technology Holdings, LLC	133052
5473 US	United States of America	Gas Lift System Having Expandable Velocity String	13368654	Feb 8, 2012	9068444	Jun 30, 2015	Weatherford Technology Holdings, LLC	128218
5474 US	United States of America	Control System for Downhole Operations	14123488	Jun 14, 2012	10323232	Jan 9, 2018	Weatherford Technology Holdings, LLC	131668
5474 PCT US CN1	United States of America	Control System for Downhole Operations	15840011	Dec 13, 2017	10323500	Jun 18, 2019	Weatherford Technology Holdings, LLC	959956
5488 PCT US CON1	United States of America	Apparatus and Method of Zonal Isolation	14151678	Jan 15, 2014	9551201	Jan 24, 2017	Weatherford Technology Holdings, LLC	128670
5490 US CON1	United States of America	Annular Sealing in a Rotating Control Device	15171549	Jun 2, 2016	10053943	Aug 21, 2018	Weatherford Technology Holdings, LLC	792910
5490 US CON1	United States of America	Pulsing Tool	13590877	Aug 21, 2012	9382760	Jul 5, 2016	Weatherford Technology Holdings, LLC	128313
5496 PCT US	United States of America	Reel to Reel Manufacturing Line	11106168	Jan 16, 2003	6934459	Aug 23, 2005	Weatherford Canada Ltd.	137646
5497 US DVI1	United States of America	Reel to Reel Manufacturing Line	11061688	Apr 13, 2005	7164841	Jan 16, 2007	Weatherford Canada Ltd.	128093
5497 US CON1	United States of America	Apparatus for Generating an Optical Interference Pattern	10206079	Jan 16, 2003	6990272	Jan 24, 2006	Weatherford Canada Ltd.	134416
5498 US CON1	United States of America	Apparatus for Generating an Optical Interference Pattern	11264400	Oct 31, 2003	7079729	Jul 18, 2006	Weatherford Canada Ltd.	137641
5498 US CON1	United States of America	Method and Apparatus for Including an Index of Refraction Ch	10733325	Dec 12, 2003	7277604	Oct 2, 2007	Weatherford Canada Ltd.	137645
5498 US CON1	United States of America	Method and Apparatus for Including an Index of Refraction Ch	111680920	Mar 1, 2007	7418162	Aug 26, 2008	Weatherford Canada Ltd.	137644
5501 PCT US	United States of America	Optical Device for Measuring a Physical Parameter in a Hydr	12438979	Aug 31, 2007	104000579	Sep 3, 2019	Weatherford Canada Ltd.	137640
5502 PCT US	United States of America	Tilted Grating Sensor	12439031	Feb 26, 2009	104000579	Oct 8, 2013	Weatherford Canada Ltd.	137648
5502 PCT US DV2	United States of America	Tilted Grating Sensor	15824692	Nov 28, 2017	101909970	Jan 29, 2019	Weatherford Canada Ltd.	964089
5508 PCT US CN2	United States of America	Pressure Sensor Arrangement Using an Optical Fiber and Met	13129481	Aug 11, 2017	10246989	May 24, 2019	Weatherford Canada Ltd.	905425
5508 PCT US CN3	United States of America	Pressure Sensor Arrangement Using an Optical Fiber and Met	16371350	Apr 1, 2019	10837274	Nov 17, 2020	Weatherford Canada Ltd.	1155011
5509 US CON1	United States of America	Temperature Sensor Using an Optical Fiber	13342499	Jan 3, 2012	8335406	Dec 18, 2012	Weatherford Canada Ltd.	131846
5509 US CON2	United States of America	Temperature Sensor Using an Optical Fiber	13419966	Mar 14, 2012	8611703	Dec 17, 2012	Weatherford Canada Ltd.	131848
5509 US DVI1	United States of America	Temperature Sensor Using an Optical Fiber	13948706	Jul 23, 2013	8811776	Aug 19, 2014	Weatherford Canada Ltd.	128335
5512 US	United States of America	Apparatus and Method for Measuring the Acoustic Impedanc	13226808	Sep 2, 2012	8824240	Sep 2, 2014	Weatherford Technology Holdings, LLC	127967
5517 US	United States of America	Multiple Slit Sliding Sleeve	13568774	Aug 7, 2012	9080420	Jul 14, 2015	Weatherford Technology Holdings, LLC	128507
5518 US	United States of America	High Flow Rate Multi Artery Stimulation System	13569391	Aug 8, 2012	9523261	Dec 20, 2016	Weatherford Technology Holdings, LLC	128123
5519 US	United States of America	Selective Set Module for Multi String Packers	13313803	Dec 7, 2011	9163476	Oct 20, 2015	Weatherford Technology Holdings, LLC	137658
5520 US	United States of America	Valve for Velocity Strings	13622760	Sep 19, 2012	9256462	Feb 9, 2016	Weatherford Technology Holdings, LLC	128367
5525 US	United States of America	Neutron Logging Tool with Multiple Detectors	13302327	Nov 22, 2011	9309751	Apr 12, 2016	Weatherford Technology Holdings, LLC	134464
5526 US CON1	United States of America	Three-Way Flow Sub for Continuous Circulation	13596887	Aug 28, 2012	9353587	May 31, 2016	Weatherford Technology Holdings, LLC	131047
5526 US CON1	United States of America	Three-Way Flow Sub for Continuous Circulation	15150464	May 10, 2016	10107053	Oct 23, 2018	Weatherford Technology Holdings, LLC	778076
5530 US	United States of America	Resolution Matched Nonlinear Resolution Enhancement of W	13274069	Oct 14, 2011	9014984	Apr 21, 2016	Weatherford Technology Holdings, LLC	134448
5531 US	United States of America	Seal Assemblies in Subsea Reotating Control Devices	13355035	Jan 20, 2012	9245428	Feb 9, 2016	Weatherford Technology Holdings, LLC	128118
5532 US	United States of America	Seal Assemblies in Subsea Reotating Control Devices	13645738	Oct 5, 2012	10000988	Jun 19, 2018	Weatherford Technology Holdings, LLC	128348
5533 US	United States of America	Seal Element Guide	13798771	Jun 25, 2013	9341043	May 17, 2016	Weatherford Technology Holdings, LLC	129697
5538 US	United States of America	Gravel Pack Apparatus Having Actuated Valves	13782713	Jan 10, 2013	9441454	Sep 13, 2016	Weatherford Technology Holdings, LLC	128022
5542 US	United States of America	Calculating Downhole Cards in Deviated Wells	15292515	Aug 20, 2016	10280718	May 7, 2019	Weatherford Technology Holdings, LLC	817695
5542 US1	United States of America	Fluid Load Line Calculation and Concavity Test for Downhole	13663155	Oct 29, 2012	9897083	Feb 20, 2018	Weatherford Technology Holdings, LLC	131473
5542 US2	United States of America	Calculating Downhole Pump Card With Iterations on Single Da	13663161	Oct 29, 2012	9810212	Nov 7, 2017	Weatherford Technology Holdings, LLC	130703
5542 US3	United States of America	Calculating Downhole Pump Card With Iterations on Single Da	13663174	Oct 29, 2012	9810213	Nov 7, 2017	Weatherford Technology Holdings, LLC	128359
5548 US	United States of America	Apparatus and Method for Completing a Wellbore	13786148	Mar 5, 2013	9228407	Nov 7, 2016	Weatherford Technology Holdings, LLC	131464
5549 US	United States of America	Gravel Pack Assembly and Method of Use	13207129	Nov 15, 2011	9062529	Jun 23, 2016	Weatherford Technology Holdings, LLC	125768
5556 US	United States of America	Multi-Zone Cemented Fracturing System	13549247	Jul 13, 2012	9328579	May 3, 2016	Weatherford Technology Holdings, LLC	128012
5558 US	United States of America	Hard Stranding Metallic Slip Components for Downhole Tools	13782207	Feb 7, 2013	9410399	Aug 9, 2016	Weatherford Technology Holdings, LLC	130155
5559 US	United States of America	Hard Stranding Non-Metallic Slip Components for Downhole T	13782199	Feb 7, 2013	9273527	Mar 1, 2016	Weatherford Technology Holdings, LLC	128020
5559 US CON1	United States of America	Hard Stranding Non-Metallic Slip Components for Downhole T	14804109	Jul 20, 2015	9097076	Aug 4, 2015	Weatherford Technology Holdings, LLC	128023
5561 US	United States of America	Gas Vhydrate Inhibitors and Methods for Making and Using Sa	13348279	Jan 11, 2012	9739105	Jan 13, 2015	Weatherford Technology Holdings, LLC	498989
5562 US	United States of America	In-Well Full Bore Multiphase Flowmeter for Horizontal Wellbo	13945432	Jul 3, 2013	8932996	Jul 5, 2016	Weatherford Technology Holdings, LLC	136259
5568 US	United States of America	Inflow Control Device Having Externally Configurable Flow Por	13485463	May 31, 2012	9383476	Aug 8, 2017	Weatherford Technology Holdings, LLC	130000
5574 US	United States of America	Bottomhole Assembly for Capillary Injection System and Meth	13792804	Feb 22, 2013	9318575	May 3, 2016	Weatherford Technology Holdings, LLC	128265
5578 US	United States of America	Instrumented Rod Rotator	13585048	Aug 14, 2012	9140113	Jun 28, 2016	Weatherford Technology Holdings, LLC	131510
5581 US CN1	United States of America	Managed Pressure Drilling System Having Well Control Mode	15424629	Feb 7, 2017	10329860	Jun 25, 2019	Weatherford Technology Holdings, LLC	853496
5591 US	United States of America	Wiper Assembly for a Pump	13880143	Mar 25, 2013	9482227	Nov 1, 2016	Weatherford Technology Holdings, LLC	131511
5593 US	United States of America	Liner Floation System	13560678	Jun 28, 2012	9279295	Mar 8, 2016	Weatherford Technology Holdings, LLC	136844
5594 US	United States of America	Complete Core System	13485579	May 31, 2012	9187988	Mar 14, 2017	Weatherford Technology Holdings, LLC	127643
5597 US	United States of America	Sliding Sleeve Having Contracting, Segmented Ball Seat	14104238	Dec 12, 2013	9593553	Apr 4, 2017	Weatherford Technology Holdings, LLC	130215
5597 US DVI1	United States of America	Manipulation of Multi-Component Geophone Array Data to Id	13851712	Mar 27, 2013	9611730	Apr 4, 2017	Weatherford Technology Holdings, LLC	130215
5600 US	United States of America	Manipulation of Multi-Component Geophone Data to Identify	15423794	Feb 5, 2017	10087747	Oct 2, 2018	Weatherford Technology Holdings, LLC	848676
5600 US	United States of America	Seal Assembly	13652137	Oct 15, 2012	10323477	Jun 18, 2019	Weatherford Technology Holdings, LLC	128306

5601-US	United States of America	Optical Transducer with Integrated Feedthrough	13789863	Mar 8, 2013		9223101	Dec 29, 2015	Weatherford Technology Holdings, LLC	128497
5601-US-COIN1	United States of America	Optical Transducer with Integrated Feedthrough	14941836	Nov 16, 2015		9588314	Mar 7, 2017	Weatherford Technology Holdings, LLC	1732015
5602-US	United States of America	Hydrostatic Tubular Lifting System	14109701	Dec 17, 2013		9732991	Aug 15, 2017	Weatherford Technology Holdings, LLC	174906
5603-US	United States of America	Case-Hole Chemical Pretreater	13667663	Sep 10, 2012		9422796	Aug 23, 2016	Weatherford Technology Holdings, LLC	131603
5605-US	United States of America	Reverse Cementing Valve	13439207	Apr 4, 2012		9334700	May 10, 2016	Weatherford Technology Holdings, LLC	129847
5607-PCT-US-COIN1	United States of America	Method of and Apparatus for Completing a Well	14048796	Oct 17, 2008		9383469	Sep 16, 2014	Weatherford Technology Holdings, LLC	136460
5607-PCT-US-COIN2	United States of America	Method of and Apparatus for Completing a Well	14783440	Jun 18, 2015		9359890	Jul 21, 2015	Weatherford Technology Holdings, LLC	1358922
5609-PCT-US	United States of America	Valve Assembly	13903359	May 28, 2013		9200501	Jun 7, 2016	Weatherford Technology Holdings, LLC	457613
5609-PCT-US-COIN1	United States of America	Switching Device for, and a Method of Switching, a Downhole	12868622	Mar 6, 2009		9103197	Aug 11, 2015	Weatherford Technology Holdings, LLC	1284455
5609-PCT-US-COIN2	United States of America	Switching Device for, and a Method of Switching, a Downhole	14802402	Jul 17, 2015		9631488	Apr 21, 2017	Weatherford Technology Holdings, LLC	479675
5611-PCT-US	United States of America	Switching Device for, and a Method of Switching, a Downhole	13146512	Feb 7, 2017		10041335	Aug 7, 2018	Weatherford Technology Holdings, LLC	8489922
5611-PCT-US-DV1	United States of America	Apparatus and Method for Setting a Downhole Anchor and Re	13145473	Jan 23, 2010		9890614	Feb 13, 2018	Weatherford Technology Holdings, LLC	1369932
5611-PCT-US-DV2	United States of America	Expanded Slip System	15018775	Jan 22, 2010		10267121	Apr 23, 2018	Weatherford Technology Holdings, LLC	478107
5612-PCT-US	United States of America	Interlocking and Setting Section for a Downhole Tool	13131459	Dec 4, 2009		9855964	Oct 15, 2014	Weatherford Technology Holdings, LLC	1284488
5614-PCT-US	United States of America	Tree Plug	12514488	Nov 19, 2007		9839872	Sep 9, 2014	Weatherford Technology Holdings, LLC	128473
5615-PCT-US	United States of America	Activation Device	12665641	Mar 1, 2010		9869864	Sep 23, 2014	Weatherford Technology Holdings, LLC	128396
5617-PCT-US	United States of America	Centralizer	12743505	Nov 28, 2008		8919437	Apr 8, 2014	Weatherford Technology Holdings, LLC	137478
5617-PCT-US-COIN1	United States of America	Centralizer	14027444	Sep 16, 2013		9932779	Dec 30, 2014	Weatherford Technology Holdings, LLC	166902
5617-PCT-US-COIN2	United States of America	Centralizer	14580398	Dec 23, 2014		992779	Apr 3, 2018	Weatherford Technology Holdings, LLC	378120
5618-PCT-US	United States of America	Flow Restrictor	12933053	Mar 18, 2009		9832047	Sep 2, 2014	Weatherford Technology Holdings, LLC	128484
5619-PCT-US	United States of America	Tubing Section	1286495	Feb 23, 2009		9702231	Jul 11, 2017	Weatherford Technology Holdings, LLC	133386
5620-PCT-US	United States of America	Improved Tubing Section Coupling	12993015	Mar 23, 2009		9133968	Sep 15, 2011	Weatherford Technology Holdings, LLC	136949
5625-PCT-US	United States of America	Apparatus and Method for Downhole Communication	13389630	Aug 23, 2010		9488046	Nov 8, 2016	Weatherford Technology Holdings, LLC	128461
5628-US	United States of America	Fiber Optic Multi-Wavelength Monolithic Penetrator/Connector	14416909	Jan 23, 2015		10197752	Feb 5, 2019	Weatherford Technology Holdings, LLC	380134
5628-US-DV1	United States of America	Monolithic Multi-Optical Wavelength Penetrator/Connector	16220162	Dec 14, 2018				Weatherford Technology Holdings, LLC	131370
5628-US-DV2	United States of America	Monolithic Multi-Optical Wavelength Penetrator or Connector	16220222	Dec 14, 2018				Weatherford Technology Holdings, LLC	1107740
5631-PCT-US	United States of America	Method and System for Operating a Downhole Tool for Fract	14360309	Oct 2, 2012		9739127	Aug 22, 2017	Weatherford Technology Holdings, LLC	133367
5637-US	United States of America	Standoff Device for Downhole Tools Using Slip Elements	13860529	Sep 6, 2012		9470060	Oct 18, 2014	Weatherford Technology Holdings, LLC	1285251
5639-US	United States of America	Method and System for Transmitting Signals Through a Metal	10276027	Dec 1, 2003		7063148	Jun 20, 2008	Weatherford Technology Holdings, LLC	128501
5667-US	United States of America	Deburring Mill Tool for Wellbore Cleaning	13662120	Oct 26, 2012		9435176	Sep 6, 2016	Weatherford Technology Holdings, LLC	128401
5669-US	United States of America	Apparatus and Methods of Running an Expandable Liner	13786195	Mar 5, 2013		9206674	Dec 8, 2016	Weatherford Technology Holdings, LLC	135804
5671-US-COIN1	United States of America	Bi-directional Downhole Isolation Valve	14160137	Jan 8, 2014		9518445	Dec 13, 2016	Weatherford Technology Holdings, LLC	248928
5671-US-COIN2	United States of America	Bi-directional Downhole Isolation Valve	15374326	Dec 9, 2016		10273767	Apr 30, 2019	Weatherford Technology Holdings, LLC	845122
5673-US	United States of America	Seal Stem	16389098	Mar 29, 2019		10947798	Mar 16, 2021	Weatherford Technology Holdings, LLC	1162081
5675-US	United States of America	Packer Setting and/or Unsetting	13837881	Mar 15, 2013		9260926	Feb 16, 2016	Weatherford Technology Holdings, LLC	130169
5677-US	United States of America	Expandable Liner	13954924	Jul 11, 2013		9611708	Apr 4, 2017	Weatherford Technology Holdings, LLC	145508
5677-US-COIN1	United States of America	Expandable Liner	16861807	Jul 30, 2013		10648297	May 12, 2020	Weatherford Technology Holdings, LLC	129544
5697-US	United States of America	Expandable Ball Seat for Hydraulically Actuating Tools	13793688	Apr 29, 2020		9187978	Nov 17, 2015	Weatherford Technology Holdings, LLC	128655
5706-US	United States of America	Spill Feedback Rings with Anti-Hooping Bend	14192703	Feb 27, 2014		9587488	Mar 7, 2017	Weatherford Technology Holdings, LLC	258901
5717-US	United States of America	Cement Device Release Mechanism	14201575	Mar 7, 2014		9611713	Apr 4, 2017	Weatherford Technology Holdings, LLC	258598
5721-US	United States of America	Multiphase Flowmeter for Slurries Applications	14032613	Sep 20, 2013		9347310	May 24, 2016	Weatherford Technology Holdings, LLC	166489
5722-US	United States of America	Non-metallic Slips Having Inserts Oriented Normal to Core Fil	14029032	Sep 27, 2013		9725981	Aug 8, 2017	Weatherford Technology Holdings, LLC	218707
5723-PCT-US	United States of America	Insert Units for Non-Metallic Slips Oriented Normal to Core Fil	14446642	Jul 30, 2014		9677356	Jun 13, 2017	Weatherford Technology Holdings, LLC	333242
5724-PCT-US	United States of America	Well Isolation	14431497	Mar 26, 2015		10724860	Jul 28, 2020	Weatherford Technology Holdings, LLC	404617
5726-PCT-US	United States of America	Downhole Apparatus and Method	14441752	Nov 7, 2013		10036231	Sep 18, 2018	Weatherford Technology Holdings, LLC	457354
5726-PCT-US-COIN1	United States of America	Flow Control Assembly	14435923	Apr 15, 2015		10036231	Jul 31, 2018	Weatherford Technology Holdings, LLC	402987
5727-PCT-US	United States of America	Flow Control Assembly	16046723	Jul 26, 2018		10781665	Sep 22, 2020	Weatherford Technology Holdings, LLC	1050925
5727-PCT-US-DV1	United States of America	Method and Apparatus for Actuating Downhole Tools	14654106	Jun 19, 2015		10735177	May 14, 2019	Weatherford Technology Holdings, LLC	472103
5728-US	United States of America	Method and Apparatus for Actuating Downhole Tools	15889953	Feb 19, 2018		10400595	Aug 25, 2020	Weatherford Technology Holdings, LLC	1003411
5729-US	United States of America	Real-Time Determination of Fluid Properties Using Density An	13827931	Mar 14, 2013		10604693	Sep 3, 2019	Weatherford Technology Holdings, LLC	130932
5736-US	United States of America	High Water and Brine Swell Elastic Composites and Meth	14043360	Sep 23, 2013		10337263	Mar 31, 2020	Weatherford Technology Holdings, LLC	170243
5736-US-COIN1	United States of America	Method and Apparatus for Handling a Tubular	14043723	Oct 1, 2013		9476488	Jul 2, 2019	Weatherford Technology Holdings, LLC	174898
5737-US	United States of America	Compensating Balls	14041841	Sep 30, 2013		9476488	Oct 25, 2016	Weatherford Technology Holdings, LLC	1749662
5737-US-DV1	United States of America	Compensating Balls	15277290	Sep 27, 2016		9951570	Apr 24, 2018	Weatherford Technology Holdings, LLC	814444
5742-US	United States of America	Hydraulic Communication Profile	13766633	Feb 13, 2013		9528345	Dec 27, 2014	Weatherford Technology Holdings, LLC	1364942
5744-US	United States of America	Consumable Downhole Packer or Plug	14184809	Jan 27, 2014		9482069	Nov 1, 2016	Weatherford Technology Holdings, LLC	252728
5744-US-DV1	United States of America	Consumable Downhole Packer or Plug	15276492	Sep 26, 2016		10415343	Sep 17, 2019	Weatherford Technology Holdings, LLC	819467
5745-US	United States of America	Multi-Zone Bypass Packer Assembly for Gravel Packing Boreho	14207269	Sep 10, 2013		9428997	Aug 30, 2016	Weatherford Technology Holdings, LLC	1314455
5747-US	United States of America	Controller for Downhole Tool	14207866	Mar 12, 2014		9534461	Jan 3, 2017	Weatherford Technology Holdings, LLC	258603
5748-US	United States of America	Downhole Tool for Debris Removal	13733955	Dec 9, 2016		10480290	Nov 19, 2019	Weatherford Technology Holdings, LLC	845245
5750-US-COIN1	United States of America	Geophysical Evaluator for Tubular Makeup	29614617	Mar 15, 2013		9404329	Aug 2, 2016	Weatherford Technology Holdings, LLC	1314459
5750-US-COIN2	United States of America	Geophysical Evaluator for Tubular Makeup	29614635	Aug 21, 2017				Weatherford Technology Holdings, LLC	907498
5750-US-COIN3	United States of America	Geophysical Evaluator for Tubular Makeup	29679655	Feb 6, 2019				Weatherford Technology Holdings, LLC	1150133
5754-US	United States of America	Apparatus and Methods of Running Casting in a Dual Gradient	14197978	Feb 12, 2014		9657548	May 23, 2017	Weatherford Netherlands B.V.	248934

5766-US	United States of America	Time Delay Compensation for Optical Waveguides Using a Bidirectional Splitter Assembly	14280020	Nov 23, 2013	9046389	Jun 2, 2015	Weatherford Technology Holdings, LLC	131491
5767-US	United States of America	Optical Couplers Used in a Downhole Splitter Assembly	14280020	May 16, 2014	9465137	Oct 11, 2016	Weatherford Technology Holdings, LLC	291428
5768-US-DV1	United States of America	Optical Couplers Used in a Downhole Splitter Assembly	15150501	May 16, 2014	1057963	Feb 11, 2018	Weatherford Technology Holdings, LLC	777276
5769-US	United States of America	Riser Auxiliary Line Jumper System for Rotating Control Device	14106050	Dec 13, 2013	9074425	Jul 7, 2015	Weatherford Technology Holdings, LLC	218756
5770-US	United States of America	Surge Immune Liner Sealing Tool	14154392	Jan 14, 2014	9518452	Dec 13, 2016	Weatherford Technology Holdings, LLC	249869
5771-US	United States of America	Ball Seal Apparatus and Method	14152913	Jan 10, 2014	9161217	Dec 25, 2016	Weatherford Technology Holdings, LLC	251191
5772-US	United States of America	Method and Apparatus for Sealing Tubulars	14152913	Jan 10, 2014	9745821	Aug 29, 2017	Weatherford Technology Holdings, LLC	351190
5773-US-CN1	United States of America	Method and Apparatus for Sealing Tubulars	15688566	Aug 28, 2017	10590733	Mar 17, 2018	Weatherford Technology Holdings, LLC	926608
5799-US	United States of America	Thick Wall Shrouded Launcher	14201587	Mar 7, 2014	10024144	Jul 17, 2018	Weatherford Technology Holdings, LLC	258607
5800-US	United States of America	Top Drive Stand Compensator with Fill Up Tool	13951328	Jul 29, 2013	9598916	Mar 21, 2017	Weatherford Technology Holdings, LLC	136645
5804-PCT-US	United States of America	Downhole Communication	14771238	Feb 28, 2014	10294775	May 21, 2019	Weatherford Technology Holdings, LLC	476999
5804-PCT-US-DV1	United States of America	Downhole Communication	16033097	Jul 11, 2018				1051421
5804-PCT-US-DV2	United States of America	Downhole Communication	16332395	Mar 14, 2019	10753196	Aug 25, 2020	Weatherford Technology Holdings, LLC	1156537
5806-US	United States of America	Method and Apparatus for Detection and Quantification of Backflow	13983085	Apr 15, 2013	9677997	Jun 13, 2017	Weatherford Technology Holdings, LLC	131489
5819-US	United States of America	Method and Apparatus for Detection and Quantification of Backflow	15595601	May 16, 2017	9664812	May 30, 2017	Weatherford Technology Holdings, LLC	903480
5829-US	United States of America	Couplings for Expandable Tubular	14202997	Mar 13, 2014	9657555	May 23, 2017	Weatherford Technology Holdings, LLC	258613
5839-US-CN1	United States of America	Couplings for Expandable Tubular	15952642	May 11, 2017	10156128	Dec 18, 2018	Weatherford Technology Holdings, LLC	888101
5839-US-DV1	United States of America	Telemetry Operated Tools for Cementing a Liner String	14292062	Apr 10, 2014	10087725	Oct 2, 2018	Weatherford Technology Holdings, LLC	264243
5839-US-DV2	United States of America	Telemetry Operated Tools for Cementing a Liner String	16122273	Sep 5, 2018	10808508	Oct 20, 2020	Weatherford Technology Holdings, LLC	1066736
5844-US	United States of America	Big Gap Element Sealing System	14229245	Oct 20, 2020	10094198	Oct 9, 2018	Weatherford Technology Holdings, LLC	1603542
5844-US-CN1	United States of America	Big Gap Element Sealing System	16154103	Oct 6, 2018	9523252	Dec 20, 2018	Weatherford Technology Holdings, LLC	258620
5845-US	United States of America	Floating Device Running Tool	14313089	Jun 24, 2014	10132117	Dec 20, 2018	Weatherford Technology Holdings, LLC	109298
5847-US	United States of America	Bi-directional Downhole Deployment Valve	15645778	Oct 3, 2014	10138710	Nov 27, 2018	Weatherford Technology Holdings, LLC	295155
5847-US-CO-N1	United States of America	Bi-directional Downhole Isolation Valve	16150549	Oct 3, 2018	9856707	Jan 2, 2018	Weatherford Technology Holdings, LLC	904351
5848-US	United States of America	Capillary Injection Delivery System Having Tubing Anchor	14248941	Apr 9, 2014	10920510	Feb 16, 2021	Weatherford U.K. Limited	1089922
5851-PCT-US	United States of America	Downhole Anchor	15515406	Oct 14, 2015				259066
5851-PCT-US-CN1	United States of America	Downhole Anchor	17106797	Oct 14, 2015	Nov 30, 2020			849945
5853-US	United States of America	Sensing in Artificial Lift Systems	14250196	Apr 10, 2014	9976398	May 22, 2018	Weatherford Technology Holdings, LLC	1645270
5855-US	United States of America	Downhole Debris Retriever	14486915	Sep 15, 2014	10065361	Aug 21, 2018	Weatherford Technology Holdings, LLC	264518
5856-US	United States of America	System and Method for Sealing a Wellbore	14510984	Oct 9, 2014	10487618	Nov 26, 2019	Weatherford Technology Holdings, LLC	339158
5857-US	United States of America	Pack-off for Liner Deployment Assembly	13903103	May 28, 2013	9650854	May 16, 2019	Weatherford Netherlands B.V.	357599
5860-US	United States of America	Zone Select Stage Tool System	13952001	Jul 26, 2013	10024133	Jul 17, 2018	Weatherford Technology Holdings, LLC	130105
5861-US	United States of America	Electronically Actuated Cementing Port Collar	13952202	Jul 17, 2013	9856714	Jan 2, 2018	Weatherford Technology Holdings, LLC	135923
5861-US-CO-N1	United States of America	Electronically Actuated Cementing Port Collar	15130757	Apr 15, 2016	10174866	Apr 19, 2016	Weatherford Technology Holdings, LLC	135922
5862-US	United States of America	Electronically Actuated Cementing Port Collar	14288764	May 2, 2014	10123555	Jan 8, 2019	Weatherford Technology Holdings, LLC	794814
5862-US-DV1	United States of America	Tubular Handling Tool	15674848	Aug 11, 2017	10030454	Jul 24, 2018	Weatherford Technology Holdings, LLC	283859
5868-US	United States of America	Time Division Multiplexing (TDM) and Wavelength Division Multiplexing (WDM) Apparatus for Operating a Downhole Tool	14276586	May 13, 2014	9778078	Oct 3, 2017	Weatherford Technology Holdings, LLC	905435
5868-US-CN1	United States of America	Time Division Multiplexing (TDM) and Wavelength Division Multiplexing (WDM) Apparatus for Operating a Downhole Tool	15615177	Jun 23, 2017	9958300	May 1, 2018	Weatherford Technology Holdings, LLC	291133
5869-US	United States of America	Method and Apparatus for Operating a Downhole Tool	14082978	Nov 13, 2013	10227826	Mar 12, 2019	Weatherford Technology Holdings, LLC	888855
5871-US	United States of America	Telemetry Operated Sealing Tool	14082978	Nov 13, 2013	9970251	May 15, 2018	Weatherford Technology Holdings, LLC	218877
5871-US-CO-N1	United States of America	Telemetry Operated Sealing Tool	15212817	Jul 18, 2016	977569	Apr 30, 2018	Weatherford Technology Holdings, LLC	129833
5872-US	United States of America	Running Tool	14082996	Nov 18, 2013	10422216	Oct 3, 2017	Weatherford Technology Holdings, LLC	129832
5872-US-DV1	United States of America	Telemetry Operated Running Tool	15723007	Oct 2, 2017	9523268	Sep 24, 2019	Weatherford Technology Holdings, LLC	948126
5873-US	United States of America	Telemetry Operated Cementing Plug Release System	14083021	Nov 18, 2013	10216938	Dec 20, 2016	Weatherford Technology Holdings, LLC	129815
5873-US-CN1	United States of America	Telemetry Operated Cementing Plug Release System	15357732	Nov 21, 2016	9732597	May 5, 2019	Weatherford Technology Holdings, LLC	834526
5874-US	United States of America	Telemetry Operated Expandable Liner System	14447288	Jul 30, 2014	9428998	Aug 15, 2019	Weatherford Technology Holdings, LLC	129833
5875-US	United States of America	Telemetry Operated Expandable Liner System	14003046	Nov 18, 2013	9528346	Dec 27, 2016	Weatherford Technology Holdings, LLC	129832
5875-US-CN1	United States of America	Telemetry Operated Ball Release System	15386929	Dec 21, 2016	10246665	Apr 2, 2019	Weatherford Technology Holdings, LLC	944160
5882-US-CN1	United States of America	Apparatus and Methods for Cemented Multi-Zone Completion	13936566	Jul 8, 2013	9926783	Mar 27, 2019	Weatherford Technology Holdings, LLC	138534
5882-US-CN1	United States of America	Apparatus and Methods for Cemented Multi-Zone Completion	15897521	Feb 15, 2018	10590797	Mar 17, 2020	Weatherford Technology Holdings, LLC	935114
5887-US-CN1	United States of America	Assembly for Toe-to-Heel Gravel Packing and Reverse Circulation	14282922	May 20, 2014	10082007	Sep 25, 2018	Weatherford Technology Holdings, LLC	135840
5890-PCT-US	United States of America	Choke	14895688	Mar 3, 2016	10428621	Oct 1, 2019	Weatherford Technology Holdings, LLC	744248
5890-PCT-US-DV1	United States of America	Choke	16529704	Aug 1, 2019	10724333	Jul 28, 2020	Weatherford Technology Holdings, LLC	1246194
5894-US	United States of America	Tubular Handling Tool	14561295	Dec 5, 2014	10487997	Nov 26, 2019	Weatherford Technology Holdings, LLC	362155
5894-US-DV1	United States of America	Tubular Handling Tool	16513663	Jul 16, 2019	10830008	Nov 10, 2020	Weatherford Technology Holdings, LLC	1231151
5898-US	United States of America	Autonomous Selective Shifting Tool	14573501	Dec 17, 2014	9759040	Sep 12, 2017	Weatherford Technology Holdings, LLC	375820
5899-US	United States of America	Small Profile Pressure and Temperature Gauges	14333038	Jul 14, 2014	9677963	Jan 13, 2017	Weatherford Technology Holdings, LLC	129728
5899-US-DV1	United States of America	Small Profile Pressure and Temperature Gauges	15428781	Apr 4, 2017	10175131	Jan 8, 2019	Weatherford Technology Holdings, LLC	986933
5901-US	United States of America	Extendable and Retractable Stabilizer	14316544	Jun 24, 2014	9784047	Oct 10, 2017	Weatherford Technology Holdings, LLC	285034
5905-US	United States of America	Milling System for Abandoning a Wellbore	14466336	Sep 25, 2014	9938781	Apr 10, 2018	Weatherford Technology Holdings, LLC	339156
5905-US-CN1	United States of America	Milling System for Abandoning a Wellbore	15494067	Mar 29, 2018	10634787	Oct 30, 2018	Weatherford Technology Holdings, LLC	996709
5906-US	United States of America	Centrifugal	14447487	Jul 30, 2014	10113372	Oct 30, 2018	Weatherford Technology Holdings, LLC	1334403
5907-US	United States of America	Fiber Optic Splice Protector for Harsh Environments	14407534	Nov 8, 2013	9344778	May 17, 2016	Weatherford Canada Inc.	142795
5909-US	United States of America	Reverse Cementation of Liner String for Formation Stimulation	14797386	Nov 13, 2015	10694197	Oct 9, 2018	Weatherford Technology Holdings, LLC	749081
5910-PCT-US	United States of America	Tubular Stabbing Guide	14910795	Aug 11, 2014	10619431	Apr 14, 2020	Weatherford Norge AS & Weatherford U.K. Limited	494855

5914 US	United States of America	Reusable High Performance Water Based Drilling Fluids	14506137	Oct 3, 2014		10659468	Jun 2, 2020	Weatherford Technology Holdings, LLC	3561277
5914 US-DV1	United States of America	Reusable High Performance Water Based Drilling Fluids	16824822	Mar 20, 2020		11015106	May 23, 2021	Weatherford Technology Holdings, LLC	1418986
5915 US	United States of America	Ultrastrong Logging Methods and Apparatus for Measuring Cei	14153174	Jan 14, 2014		10358905	Jul 23, 2019	Weatherford Technology Holdings, LLC	1445994
5921 US	United States of America	Strain Isolated Fiber Bragg Grating Sensors	14497573	Sep 26, 2014		10451807	Oct 22, 2019	Weatherford Technology Holdings, LLC	359600
5923 I-CT-US	United States of America	Method and Apparatus for Controlling a Downhole Tool	13505538	Sep 2, 2015	Feb 21, 2017		Dec 27, 2016	Weatherford Technology Holdings, LLC	8489340
5925 US	United States of America	Volume Synchronizer for Tubular Handling Tools	14001230	Nov 26, 2013		9528363	Oct 2, 2018	Weatherford Technology Holdings, LLC	1505300
5928 US	United States of America	Molded Composite Slip of Sheet Molded Compound for Down	14484386	Sep 12, 2014		10087707	Oct 2, 2018	Weatherford Technology Holdings, LLC	3561588
5928 US-DV1	United States of America	Molded Composite Slip of Sheet Molded Compound for Down	16194917	Oct 2, 2018				Weatherford Technology Holdings, LLC	1088752
5929 US	United States of America	Open Hole Expandable Junction	14249034	Apr 9, 2014	Oct 2, 2018	971458	Jul 25, 2017	Weatherford Technology Holdings, LLC	381115
5930 US	United States of America	Multiple Diameter Expandable Straddle System	14249034	Apr 9, 2014	Oct 2, 2018	9494020	Nov 15, 2016	Weatherford Technology Holdings, LLC	1510311
5931 US-CM1	United States of America	RPD Diaper for Use Downhole	15433729	Feb 15, 2017		10900350	Jan 26, 2021	Weatherford Technology Holdings, LLC	858522
5932 US	United States of America	Dampener Lubricator for Plunger Lift System	14131745	Dec 20, 2013		9587444	Mar 7, 2017	Weatherford Technology Holdings, LLC	1510041
5934 US	United States of America	System and Method for Managed Pressure Wellbore Strength	14261914	Apr 23, 2014		10227836	Mar 12, 2019	Weatherford Technology Holdings, LLC	167142
5935 US	United States of America	System and Method for Integrated Wellbore Stress Stability	14249052	Apr 9, 2014		9803475	Oct 31, 2019	Weatherford Technology Holdings, LLC	363266
5938 US	United States of America	Differential Pressure Indicator for Downhole Isolation Valve	14528552	Oct 24, 2014		10787900	Sep 29, 2020	Weatherford Technology Holdings, LLC	363849
5939 US	United States of America	Continuous Flow System for Drilling Oil and Gas Wells	14617720	Feb 9, 2015		10006262	Jan 26, 2018	Weatherford Technology Holdings, LLC	381527
5943 US	United States of America	Closure Device for a Surge Pressure Reduction Tool	14210285	May 12, 2015		10190397	Jan 29, 2019	Weatherford Technology Holdings, LLC	442525
5944 US	United States of America	Swivel Elevator	14229372	Mar 28, 2014		10036215	Jul 31, 2018	Weatherford Technology Holdings, LLC	370029
5946 US	United States of America	Cement Pulsation for Subsea Wellbore	14654276	Feb 27, 2015		9416620	Aug 16, 2016	Weatherford Technology Holdings, LLC	1932808
5948 US	United States of America	Sealing Element Mounting	14201169	Apr 30, 2015		10077604	Sep 18, 2018	Weatherford Technology Holdings, LLC	456522
5949 US	United States of America	Malalignment Mitigation in a Rotating Control Device	14752921	Mar 10, 2016		9932786	Apr 3, 2018	Weatherford Technology Holdings, LLC	456706
5954 US	United States of America	Stabilizer	14569414	Dec 12, 2014		9879485	Jan 30, 2018	Weatherford Technology Holdings, LLC	223132
5955 US	United States of America	Wiper and Seal Assembly for a Pump	14530461	Oct 31, 2014		10077616	Sep 18, 2018	Weatherford Technology Holdings, LLC	363266
5957 US	United States of America	Cu-Ni-Sn Alloy Overlay for Bearing Surfaces on Offshore Equipm	14513315	Oct 14, 2014		9631157	Apr 25, 2017	Weatherford Technology Holdings, LLC	371163
5969 US	United States of America	Heave Compensation System for Assembling A Drill String	14543354	Nov 14, 2014		1074492	Sep 15, 2020	Weatherford Technology Holdings, LLC	862658
5969 US-CM1	United States of America	Heave Compensation System for Assembling A Drill String	15457721	Mar 13, 2017		10774599	Sep 15, 2020	Weatherford Technology Holdings, LLC	862658
5969 US-CM2	United States of America	Heave Compensation System for Assembling A Drill String	16997067	Aug 19, 2020				Weatherford Technology Holdings, LLC	1528913
5973 US	United States of America	System and Method for Modeling and Design of Pulse Fractu	14323216	Jul 2, 2014		10132147	Nov 20, 2018	Weatherford Technology Holdings, LLC	2481240
5975 US	United States of America	Automatic Event Detection and Control While Drilling in Clos	14628850	Feb 23, 2015		10060208	Aug 28, 2018	Weatherford Technology Holdings, LLC	241240
5976 US	United States of America	Rotating Control Device Having a Jumper for Riser Auxiliary Lin	14593329	Jan 9, 2015		9422776	Aug 23, 2016	Weatherford Technology Holdings, LLC	378564
5982 I-CT-US	United States of America	Improvements in and Relating to Screens	15113675	Mar 15, 2017	Jul 22, 2016			Weatherford U.K. Limited	802665
5982 I-CT-US-DV1	United States of America	Screens	16036758	Jul 16, 2018		10890053	Jan 12, 2021	Weatherford U.K. Limited	1026382
5982 I-CT-US-DV2	United States of America	Downhole Screen Assembly	16239449	Jan 3, 2019	Jul 16, 2018	10893343	Jan 5, 2021	Weatherford U.K. Limited	1026382
5986 US	United States of America	Trebac Cementing Plug System	14695909	Mar 5, 2015		9797220	Oct 24, 2017	Weatherford Technology Holdings, LLC	385574
5990 US	United States of America	Self-Degradable Hydraulic Diversion Systems and Methods for	15908419	Feb 28, 2014		10774613	Sep 15, 2020	Weatherford Technology Holdings, LLC	21002805
5992 US	United States of America	Rotating Control Device Radial Seal Protection	14275748	May 29, 2015		10202828	Feb 14, 2017	Weatherford Technology Holdings, LLC	253388
5993 US	United States of America	Primary Sealing Sleeve for Stage Tool	14876308	Oct 6, 2015		9797236	Oct 24, 2017	Weatherford Technology Holdings, LLC	704947
5994 US	United States of America	Logging While Drilling Electrical Imager and Method for Mess	14305227	Jun 16, 2014		9909390	Mar 6, 2018	Weatherford Technology Holdings, LLC	425361
5997 US	United States of America	Stage Tool with Lower Tubing Isolation	14719560	May 22, 2015		10138704	Nov 27, 2018	Weatherford Technology Holdings, LLC	262598
5999 US	United States of America	Steady Packer System	14318147	Jun 27, 2014		9945711	Apr 17, 2018	Weatherford Technology Holdings, LLC	380177
6002 US	United States of America	Leak-Off Assembly for Gravel Pack System	14602438	Jan 22, 2015		9822630	Nov 21, 2017	Weatherford Technology Holdings, LLC	456713
6004 US	United States of America	Whipstock System with Real Time Kick or Loss Detection	14710790	May 3, 2015		10006264	Jun 26, 2018	Weatherford Technology Holdings, LLC	424218
6005 US	United States of America	Whipstock Assembly Having Anchor and Eccentric Packer	14719745	May 20, 2015		9957794	May 1, 2018	Weatherford Technology Holdings, LLC	423355
6009 US	United States of America	Downhole Running Cable Having Non-Metallic Conducting an	14717441	May 20, 2015		10256010	Apr 9, 2019	Weatherford Technology Holdings, LLC	384192
6010 I-CT-US	United States of America	Downhole Running Cable Depth Measurement	15313039	Jun 5, 2015		10273798	Apr 30, 2019	Weatherford Technology Holdings, LLC	384192
6011 I-CT-US	United States of America	Logging Tool Having Steel-Looking Nuclear Magnetic Resonanc	15789481	Aug 2, 2016	Nov 21, 2016	10273798	Jun 16, 2020	Weatherford Technology Holdings, LLC	997078
6021 US	United States of America	Method and Apparatus Related to an Expandable Port Collar	14521556	Oct 23, 2014	Mar 12, 2018	10084387	Oct 20, 2020	Weatherford Technology Holdings, LLC	285047
6023B-US	United States of America	Remotely Operated Stage Cementing Methods for Liner Drilli	14710066	May 12, 2015		9970258	May 15, 2018	Weatherford Technology Holdings, LLC	425444
6023 US	United States of America	Swivel and Method of Use	14709953	May 12, 2015		9915105	Mar 13, 2018	Weatherford Technology Holdings, LLC	425312
6024 US	United States of America	Surge Immune Stage System for Wellbore Tubular Connectio	14710090	May 12, 2015		10246668	Apr 2, 2019	Weatherford Technology Holdings, LLC	425304
6025 US	United States of America	Technique for Production Enhancement with Downhole Moof	14719049	May 21, 2015		9957783	May 1, 2018	Weatherford Technology Holdings, LLC	423436
6027 US	United States of America	Revolving Ball Seat for Hydraulically Actuating Tools	14444740	Jul 28, 2014		9795044	Sep 12, 2017	Weatherford Technology Holdings, LLC	29366
6028 US	United States of America	Enhanced Erosion Resistance Wire Shapes	14875825	Oct 6, 2015		10408022	Sep 10, 2018	Weatherford Technology Holdings, LLC	700196
6031 US	United States of America	Flow Resistant Packing Element System for Composite Plug	14827460	Aug 17, 2015		10016918	Jul 10, 2018	Weatherford Technology Holdings, LLC	499917
6032 US	United States of America	Centraller	14742135	Mar 1, 2016		10280695	May 7, 2019	Weatherford Technology Holdings, LLC	472516
6032 US-CM1	United States of America	Centraller	16404106	May 6, 2019	Dec 22, 2016	10337627	Jul 2, 2019	Weatherford Technology Holdings, LLC	1193487
6034 I-CT-US	United States of America	Composite Sandwich Panels for Offshore Valve	15321356	Sep 4, 2015		10774628	Sep 15, 2020	Weatherford Technology Holdings, LLC	383425
6036 US	United States of America	Hydraulically Actuated Downhole Pump with Traveling Valve	14877021	Oct 7, 2015		10309172	Jan 4, 2019	Weatherford Technology Holdings, LLC	514772
6037 US	United States of America	Downhole Casing Pulling Tool	14851283	Sep 11, 2015		10174571	Jan 8, 2019	Weatherford Technology Holdings, LLC	296191
6038 US	United States of America	Control of Multiple Hydraulic Chokes in Managed Pressure Dr	14782111	Jan 5, 2016		9605356	Mar 28, 2017	Weatherford Technology Holdings, LLC	472713
6043 US	United States of America	Acoustic Data Compression Technique	14782111	Jun 26, 2015		9389174	Jul 12, 2016	Weatherford Technology Holdings, LLC	297708
6046 US	United States of America	Time Division Multiplexing (TDM) and Wavelength Division M	14308296	Jun 18, 2014		10018032	Jul 10, 2018	Weatherford Technology Holdings, LLC	452217
6048 I-CT-US	United States of America	Stress Calculators for Stucker Rod Pumping Systems	14751940	Jun 26, 2015		100961803	Mar 30, 2021	Weatherford Technology Holdings B.V.	886329
6049 US	United States of America	Modular Top Drive	14948066	Nov 20, 2015	Nov 15, 2017	10133126	Nov 20, 2018	Weatherford Technology Holdings, LLC	723048
6050 US	United States of America	Coronitis Flow Meter Having Flow Tube with Equalized Pressur	14895931	Sep 21, 2015		10094185	Oct 9, 2018	Weatherford Technology Holdings, LLC	699100
6054 US	United States of America	Composite Fracture Plug and Associated Methods	14819511	Aug 5, 2015		10364626	Jul 30, 2019	Weatherford Technology Holdings, LLC	499911

6056 US	United States of America	Universal Remote Control System for Hydrocarbon Recovery	14732671	Jun 8, 2015		10465494	Nov 5, 2019	Weatherford Technology Holdings, LLC	473693
6057 US	United States of America	Reverse Flow Jet Pump	14943824	Nov 17, 2015		10788054	Sep 29, 2020	Weatherford Technology Holdings, LLC	743969
6060 US	United States of America	Pivot Joint	14828926	Aug 18, 2015		10443769	Oct 15, 2019	Weatherford Technology Holdings, LLC	502422
6061 US	United States of America	Off-Off Tool for Sucker Rod String	14946898	Nov 20, 2015		10273762	Apr 30, 2019	Weatherford Technology Holdings, LLC	742622
6062 US	United States of America	Nickel Corrosion Barrier Under Chrome For Sucker Rod Pumps	14972675	Dec 17, 2015	Mar 9, 2016	10138884	Nov 27, 2018	Weatherford Technology Holdings, LLC	745394
6064 US	United States of America	Integrated Drilling Control System	14874613	Oct 5, 2015		10113408	Oct 30, 2018	Weatherford Technology Holdings, LLC	862319
6065 US-CIP1	United States of America	Rod Packer Centrifugal Pumping System for Adverse Well Profile	14265672	Apr 30, 2014		9702232	Jul 11, 2017	Weatherford Technology Holdings, LLC	336794
6067 PCT-US	United States of America	Pressure Operated Valve Assembly	15509467	Sep 17, 2015	Mar 7, 2017	10519747	Dec 31, 2019	Weatherford U.K. Limited	848020
6069 US	United States of America	Optical Fiber Coating to Reduce Friction and Static Charge	14866936	Sep 2, 2015		10472946	Jan 8, 2019	Weatherford Technology Holdings, LLC	692124
6070 US	United States of America	Shutter Slag Flow Conditioning and Control	14866936	Sep 17, 2015		10557325	Nov 12, 2019	Weatherford Technology Holdings, LLC	751741
6075 US	United States of America	Cutting Tool	15045927	Mar 10, 2016		10557325	Feb 11, 2020	Weatherford Technology Holdings, LLC	692124
6077 PCT-US	United States of America	Wellbore Injection System	15505532	Feb 11, 2016	Aug 11, 2017	10669836	Jun 2, 2020	Weatherford U.K. Limited	904998
6079 US	United States of America	Check Control Tuner by Flow Coefficient for Controlled Pressure	14876280	Oct 6, 2015		9995098	Jun 12, 2019	Weatherford Technology Holdings, LLC	746192
6080 US	United States of America	Force Transferring Member for Use in A Tool	15173702	Mar 5, 2016		10180038	Jan 15, 2019	Weatherford Technology Holdings, LLC	764386
6083 US	United States of America	Fail-safe Subsurface Controlled Safety Valve	14887956	Oct 19, 2015		9745830	Aug 29, 2017	Weatherford Technology Holdings, LLC	720539
6087 US	United States of America	Controlled Pressure Drilling System with Flow Measurement	14984308	Nov 17, 2015		10094186	Oct 9, 2018	Weatherford Technology Holdings, LLC	733227
6089 US	United States of America	Valve for a Downhole Pump	15215300	Jul 20, 2016		10240598	Mar 26, 2019	Weatherford Technology Holdings, LLC	796733
6090 US	United States of America	Pressure Insensitive Counting Toe Sleeve	15042260	Feb 12, 2016		10662738	May 26, 2020	Weatherford Technology Holdings, LLC	756819
6091 US-DV1	United States of America	Pressure Insensitive Counting Toe Sleeve	15174489	Apr 27, 2020					
6092 US	United States of America	Sliding Sleeve Having Indexing Mechanism and Expandable Seal	15174489	Jun 6, 2016			Jul 2, 2019	Weatherford Technology Holdings, LLC	793112
6093 US	United States of America	Modular Top Drive System	15006562	Jan 26, 2016		10337288	Jul 2, 2019	Weatherford Technology Holdings, LLC	749668
6096 US	United States of America	Time Delay Top Sleeve	15004235	Feb 12, 2016		10036229	Jul 31, 2018	Weatherford Technology Holdings, LLC	754838
6098 US	United States of America	Lift Valve With Bellows Hydraulic Protection and Chatter Reduc	14947932	Nov 20, 2015		10161232	Dec 25, 2018	Weatherford Technology Holdings, LLC	738642
6098 US-CN1	United States of America	Connection Between Wellbore Components	14611941	Feb 2, 2015		9745802	Aug 29, 2017	Weatherford Technology Holdings, LLC	364202
6100 US	United States of America	Bi-directional Multi-Peak Optical Reference Element and Birefrin	15688609	Aug 28, 2017		10254198	Apr 9, 2019	Weatherford Technology Holdings, LLC	743788
6100 US-CN1	United States of America	Bi-directional Multi-Peak Optical Reference Element and Birefrin	15268929	Feb 5, 2019					1139921
6102 US	United States of America	Annular Isolation Device for Managed Pressure Drilling	14943972	Nov 17, 2015		10012044	Jul 3, 2018	Weatherford Technology Holdings, LLC	733224
6105 US	United States of America	Systems and Methods for Optimizing Formation Fracturing Op	14546301	Nov 18, 2014		10001769	Jun 19, 2018	Weatherford Technology Holdings, LLC	371279
6107 US	United States of America	Long Stroke Pumping Unit	14992799	Jan 11, 2016		10196883	Feb 5, 2019	Weatherford Technology Holdings, LLC	743459
6109 US	United States of America	Metal to Metal Sealing Valve With Managed Flow Erosion Ad	15088270	Apr 1, 2016		10260313	Apr 16, 2019	Weatherford Technology Holdings, LLC	764951
6111 US	United States of America	System and Method for Stress Inversion Via Image Logs and Fi	14713580	May 19, 2015		10272436	Jul 28, 2020	Weatherford Technology Holdings, LLC	372520
6116 US	United States of America	System and Method for Joint Inversion of Bed Boundaries and	14713581	May 15, 2015		10222498	Mar 5, 2019	Weatherford Technology Holdings, LLC	378316
6119 US	United States of America	Acoustically Enhanced Optical Cables	14994828	Jan 13, 2016		10843290	Nov 24, 2020	Weatherford Technology Holdings, LLC	746653
6120 US-CN1	United States of America	Acoustically Enhanced Optical Cables	17028348	Sep 22, 2020					1529956
6121 US	United States of America	Transducers and Acoustic Emitters For Fiber-Optic Based Ac	15543305	Jan 14, 2016	Jul 12, 2017	10612368	Apr 7, 2020	Weatherford Technology Holdings, LLC	889602
6123 US	United States of America	Ball Seat for Use in a Wellbore	14204578	May 5, 2015		9708887	Jul 18, 2017	Weatherford Technology Holdings, LLC	378600
6124 PCT-US	United States of America	Long Stroke Pumping Unit	15754952	May 5, 2016	Nov 17, 2017	10392879	Aug 27, 2019	Weatherford Technology Holdings, LLC	378600
6125 US	United States of America	Long Stroke Pumping Unit	15011330	Jan 29, 2016		10400761	Sep 3, 2019	Weatherford Technology Holdings, LLC	907699
6125 US-DV2	United States of America	Direct Drive Pumping Unit	16378028	Apr 8, 2019		10890175	Jan 12, 2021	Weatherford Technology Holdings, LLC	752727
6125 US-DV2	United States of America	Long Stroke Pumping Unit	16378028	Apr 8, 2019		10890175	Mar 30, 2021	Weatherford Technology Holdings, LLC	1169228
6126 US	United States of America	Scrubbing Tool With Pressure Shock Absorber	14868049	Sep 28, 2015		10301907	May 28, 2019	Weatherford Netherlands B.V.	383153
6129 US	United States of America	Temporarily Impermeable Sleeve for Running a Well Complet	15014266	Feb 3, 2016		9938802	Apr 10, 2018	Weatherford Technology Holdings, LLC	753531
6131 US	United States of America	Centrifugal Separator for Downhole Pump	15048805	Feb 19, 2016		10107088	Oct 23, 2018	Weatherford Technology Holdings, LLC	795272
6133 US	United States of America	Tension-Sec. Tieback Packer	14662076	Jul 8, 2016		10161198	Dec 25, 2018	Weatherford Technology Holdings, LLC	758537
6134 US	United States of America	Long Stroke Pumping Unit	15051060	Feb 23, 2016		10113544	Jan 23, 2018	Weatherford Technology Holdings, LLC	382550
6134 US-DV1	United States of America	Long Stroke Pumping Unit	16171757	Oct 26, 2018		10844852	Nov 24, 2020	Weatherford Technology Holdings, LLC	758945
6134 US-DV2	United States of America	Long Stroke Pumping Unit	15044856	Feb 16, 2016		10731446	Aug 4, 2020	Weatherford Technology Holdings, LLC	1086927
6136 US	United States of America	Division Plugger for Reciprocating Rod Pump	15044856	Feb 16, 2016		9921204	Mar 20, 2018	Weatherford Technology Holdings, LLC	382550
6139 US	United States of America	System and Method for Fluid Composition Characterization	14931729	Nov 3, 2015	Jan 24, 2018	10586083	Mar 10, 2020	Weatherford Technology Holdings, LLC	889977
6141 PCT-US	United States of America	Active RFID Tag Arrangements for Actuation of Downhole Tool	15729979	Jul 27, 2016					1392715
6141 US	United States of America	Active RFID Tag Arrangements for Actuation of Downhole Tool	16279979	Dec 30, 2019		10370921	Aug 6, 2019	Weatherford Technology Holdings, LLC	763052
6142 US-DV1	United States of America	Tubular Cutting Tool	15136540	Apr 22, 2016		11041353	Jun 22, 2021	Weatherford Technology Holdings, LLC	1222284
6143 US	United States of America	Dual Barrier Pump Out Plug	15155230	May 16, 2016		10151569	Dec 11, 2018	Weatherford Technology Holdings, LLC	778135
6146 US	United States of America	Pump Through Perforating Gun Combining Perforation With	14891947	Dec 22, 2015		100721661	Mar 5, 2019	Weatherford Technology Holdings, LLC	392944
6147 US	United States of America	Exposed Energetic Device Inflation via Tubing Conveyed F	15015343	Feb 4, 2016		10087727	Oct 2, 2018	Weatherford Technology Holdings, LLC	392944
6148 US	United States of America	Downhole Electric Valve	15079665	Mar 24, 2016		10107075	Oct 23, 2018	Weatherford Technology Holdings, LLC	752437
6149 US	United States of America	Cutting Assembly for Cutting a Tubular	15167274	May 27, 2016		10167690	Jan 1, 2019	Weatherford Technology Holdings, LLC	770206
6150 PCT-US	United States of America	Gas Lift Method and Apparatus	15570840	May 12, 2016	Oct 31, 2017	10655439	May 19, 2020	Weatherford U.K. Limited	950850
6151 US	United States of America	Radio Frequency Identification Tag Delivery System	15153421	May 12, 2016		9911016	Mar 6, 2018	Weatherford Technology Holdings, LLC	764384
6151 US-CN1	United States of America	Radio Frequency Identification Tag Delivery System	15880922	Jan 26, 2018		10198606	Feb 5, 2019	Weatherford Technology Holdings, LLC	966107
6153 US	United States of America	Method and Apparatus for Inverting Three Dimensional Fil	14790419	Jul 2, 2015		10393912	Aug 27, 2019	Weatherford Technology Holdings, LLC	423480
6154 US	United States of America	Control of Hydraulic Power Flowrate for Managed Pressure D	15017418	Feb 5, 2016		10107052	Oct 23, 2018	Weatherford Technology Holdings, LLC	423426
6155 US	United States of America	Jumper Tube Connection for Wellscreen Assembly	14736610	Jun 11, 2015		10020413	Jul 17, 2018	Weatherford Technology Holdings, LLC	743521
6156 US	United States of America	Modular Connection System for Top Drive	15004390	Jan 22, 2016		10590744	Mar 17, 2020	Weatherford Technology Holdings, LLC	743521
6158 PCT-US	United States of America	Expandable Liner	15743929	Jul 13, 2016	Jan 11, 2018	10865625	Dec 15, 2020	Weatherford Technology Holdings, LLC	969379
6158 PCT-US-DV1	United States of America	Expandable Liner	17094472	Nov 10, 2020					1601388

6167 US	United States of America	Tool Identification	15004687	Jan 22, 2016		10626683	Apr 21, 2020	Weatherford Technology Holdings, LLC	7363359
6168 US	United States of America	Tool Detection and Alignment for Tool Installation	15233333	Aug 10, 2016		10465457	Nov 5, 2019	Weatherford Technology Holdings, LLC	793340
6170 US	United States of America	Top Drive Torque Measurement Device	15241815	Aug 19, 2016		10428602	Oct 1, 2019	Weatherford Technology Holdings, LLC	793347
6171 US	United States of America	Combined Multi-Coupler for a Top Drive and a Method for Use	15004736	Jan 22, 2016		10323484	Jun 18, 2019	Weatherford Technology Holdings, LLC	743532
6172 US-DV1	United States of America	Self-Removing Plug for Pressure Isolation in Tubing of Well	15619545	Nov 26, 2018		10975655	Apr 13, 2021	Weatherford Technology Holdings, LLC	1105663
6175 US	United States of America	Real-Time Stuck Pipe Warning System for Downhole Operation	15008161	Mar 9, 2016		10513920	Dec 24, 2019	Weatherford Technology Holdings, LLC	772151
6176 US	United States of America	Rotating Control Device Having a Partition Seal Assembly	14969153	Dec 15, 2015		10344552	Jul 9, 2019	Weatherford Technology Holdings, LLC	476903
6177 PCT-US	United States of America	Connector System	15750943	Oct 31, 2017	Oct 31, 2017	10322912	Jun 18, 2019	Weatherford U.K. Limited	950789
6178 PCT-US	United States of America	Stabilizer for Steerable Drilling System	15765800	Nov 7, 2016	Apr 3, 2018	10711534	Jul 14, 2020	Weatherford Technology Holdings, LLC	1009513
6180 US	United States of America	Leak-Off Assembly for Gravel Pack System	15212828	Jul 18, 2016		10072482	Sep 21, 2018	Weatherford Technology Holdings, LLC	720107
6182 US	United States of America	Quick-Connect Connection	15008688	Jan 28, 2016		10422190	Sep 24, 2019	Weatherford Technology Holdings, LLC	800898
6186 US	United States of America	Diagnostics of Downhole Dynamometer Data for Control and	15210319	Jul 14, 2016		10427948	Nov 12, 2019	Weatherford Technology Holdings, LLC	800898
6188 US-CM1	United States of America	Diagnoses of Downhole Dynamometer Data for Control and	16584465	Sep 26, 2019	Sep 26, 2019	10947833	Mar 16, 2021	Weatherford Technology Holdings, LLC	1230774
6189 PCT-US	United States of America	Liner Deployment Assembly Having Full Time Debris Barrier	15749521	Aug 2, 2016	Feb 1, 2018	10907428	Feb 2, 2021	Weatherford Technology Holdings, LLC	989382
6189 US	United States of America	Downhole Seal	15273048	Sep 22, 2016		10167865	Apr 30, 2019	Weatherford Technology Holdings, LLC	800349
6192 PCT-US	United States of America	Pressure Operated Apparatus and Method	15759667	Aug 19, 2016	Feb 1, 2018	10711573	Jul 14, 2020	Weatherford U.K. Limited	983953
6192 PCT-US-CM1	United States of America	Pressure Operated Apparatus and Method	16607949	Aug 19, 2016	Jun 30, 2020			Weatherford U.K. Limited	1509204
6194 US	United States of America	Predicting Stress-Induced Anisotropy Effect on Acoustic Tool	14934922	Nov 6, 2015		10393904	Aug 27, 2019	Weatherford Technology Holdings, LLC	502588
6195 US	United States of America	Slant Mounted Hydraulic Pumping System	14996527	Dec 2, 2015		10760388	Sep 1, 2020	Weatherford Technology Holdings, LLC	721766
6195C-US	United States of America	Hydraulic Pumping System With Detection of Fluid in Gas Well	14996601	Dec 2, 2015		10619464	Apr 14, 2020	Weatherford Technology Holdings, LLC	721807
6195D-US-CM1	United States of America	Hydraulic Pumping System With Enhanced Piston Rod Sealing	15162459	May 23, 2016		10167865	Jan 1, 2019	Weatherford Technology Holdings, LLC	772151
6196 US	United States of America	Inflow Control Device Having Externally Configurable Flow For	15765590	Nov 8, 2016		10273786	Apr 30, 2019	Weatherford Technology Holdings, LLC	800349
6198 PCT-US	United States of America	Downhole Artificial Lift System	15765590	Oct 5, 2016	Apr 3, 2018	10677028	Jun 9, 2020	Weatherford U.K. Limited	1003433
6199 US	United States of America	Real-Time Fluid Contamination Prediction Using Bilinear Prog	15075791	Mar 21, 2016		10138692	Apr 28, 2020	Weatherford Technology Holdings, LLC	696508
6202 US	United States of America	Method and Apparatus for Controlling the Flow of Well Bore	13872713	Mar 9, 2016		10138692	Apr 28, 2020	Weatherford Technology Holdings, LLC	696508
6202 US-CM1	United States of America	Pump for Controlling the Flow of Well Bore Returns	13943970	Jul 17, 2013		9309732	Apr 12, 2018	Weatherford Technology Holdings, LLC	696508
6203 US	United States of America	Rotating Flow Control Device for Wellbore Fluid Control Devi	14344482	Sep 5, 2014	Sep 5, 2014	10018012	Jul 10, 2018	Weatherford Technology Holdings, LLC	668726
6207 US	United States of America	Rotating Flow Control Device Having Dual Stripper Elements	14406650	Dec 9, 2014		9683422	Jun 20, 2017	Weatherford Technology Holdings, LLC	696431
6208 PCT-US	United States of America	Riser With Internal Rotating Flow Control Device	15315544	Jun 9, 2015	Dec 2, 2016	10677004	Jun 20, 2017	Weatherford Technology Holdings, LLC	696431
6209 US	United States of America	Riser Annular Isolation Device	15091418	Apr 5, 2016		10344562	Jul 9, 2019	Weatherford Technology Holdings, LLC	833717
6210 US-CM1	United States of America	Systems and Methods for Intelligent Division Design and Appl	14919164	Nov 3, 2015	Sep 30, 2016	10221649	Mar 5, 2019	Weatherford Technology Holdings, LLC	693705
6210 US-CM1	United States of America	Systems and Methods for Evaluating and Optimizing Stimulati	15301061	Oct 25, 2016		10597882	Mar 24, 2020	Weatherford Technology Holdings, LLC	812955
6213 PCT-US	United States of America	Drilling Strapping Element	15301061	Jul 9, 2015		10190384	Jan 29, 2019	Weatherford Technology Holdings, LLC	814665
6215 US	United States of America	Reservoir Analysis with Well Pumping System	14947888	Sep 26, 2016		10240452	Mar 26, 2019	Weatherford Technology Holdings, LLC	721821
6222 US	United States of America	Well Pumping System with Enclosed Rod Rotor	14947919	Nov 20, 2015		10480262	Nov 19, 2019	Weatherford U.K. Limited	848949
6223 US	United States of America	Downhole Slip Apparatus	15459311	Mar 15, 2017		10513921	Dec 24, 2019	Weatherford Technology Holdings, LLC	737029
6231 US	United States of America	Control Line Reamer for a Downhole Tool	15362987	Nov 29, 2016		10513921	Dec 24, 2019	Weatherford Technology Holdings, LLC	737029
6231 US	United States of America	Calculating Downhole Card in Deviated Wellbore Using Param	15362901	Nov 28, 2016		10450851	Oct 22, 2019	Weatherford Technology Holdings, LLC	834995
6232 US	United States of America	Self-Strapping Reamer During Well Pumping Operations	14964913	Dec 10, 2015		10167707	Jan 1, 2019	Weatherford Technology Holdings, LLC	742630
6234 US	United States of America	Pressure Gauge Insensitive to Excessuous Mechanical Loading	15047303	Feb 18, 2016		10370956	Aug 6, 2019	Weatherford Technology Holdings, LLC	748463
6235 US	United States of America	Compressor Top Drive Unit and Elevator Links	15005809	Jan 25, 2016		10197050	Feb 5, 2019	Weatherford Technology Holdings, LLC	743553
6238 US	United States of America	Reproaching Rod Pumping Unit	15004280	Mar 1, 2016		10087724	Feb 5, 2019	Weatherford Technology Holdings, LLC	743995
6241 US	United States of America	Gravel Pack Manifold and Associated Systems and Methods	14992638	Jan 11, 2016		10167671	Oct 2, 2018	Weatherford Technology Holdings, LLC	745264
6242 US	United States of America	Power Supply for a Top Drive	15004303	Jan 22, 2016		10167671	Jan 1, 2019	Weatherford Technology Holdings, LLC	745695
6242 US-CM1	United States of America	Power Supply for a Top Drive	16196653	Nov 20, 2018	Nov 20, 2018	10273855	Aug 11, 2020	Weatherford Technology Holdings, LLC	1066145
6243 US	United States of America	Valve Operable Between Open and Closed Configurations in R	15012453	Feb 1, 2016		9988876	Jun 5, 2018	Weatherford Technology Holdings, LLC	748523
6244 US	United States of America	Valve Operable in Response to Engagement or Disengagement	15012570	Feb 1, 2016		10167700	Jan 1, 2019	Weatherford Technology Holdings, LLC	748523
6245 US	United States of America	Positioning Tool with Expendable Landing Dogs	15012623	Feb 1, 2016		10174604	Nov 3, 2020	Weatherford Technology Holdings, LLC	748527
6246 US	United States of America	Ultrasonic Cement and Casing Thickness Evaluation	15163105	May 24, 2016		10227838	Jan 8, 2019	Weatherford Technology Holdings, LLC	748528
6248 US	United States of America	Drilling System and Method Having Flow Measurement Check	15150522	May 10, 2016		10227838	Mar 12, 2019	Weatherford Technology Holdings, LLC	748609
6252 US	United States of America	Treatment Tool for Use in a Subterranean Well	15052207	Feb 24, 2016		10227848	Mar 12, 2019	Weatherford Technology Holdings, LLC	753676
6252 US-DV1	United States of America	Treatment Tool for Use in a Subterranean Well	16225129	Dec 19, 2016		10944695	Nov 24, 2020	Weatherford Technology Holdings, LLC	1111528
6253 US	United States of America	Anti-Extrusion Barrier for Packing Element	15171671	Jun 2, 2016		10253592	Apr 9, 2020	Weatherford Technology Holdings, LLC	757628
6254 US	United States of America	Slip Monitor and Control	15243113	Aug 19, 2016		10774600	Sep 15, 2020	Weatherford Technology Holdings, LLC	758025
6254 US-CM1	United States of America	Slip Monitor and Control	17002878	Aug 26, 2020		10280712	May 7, 2019	Weatherford Technology Holdings, LLC	1542619
6255 US	United States of America	Hydraulically Actuated Fluid Communication Mechanism	15437492	Feb 21, 2017		10408000	May 7, 2019	Weatherford Technology Holdings, LLC	856296
6257 US-CM1	United States of America	Hydraulically Actuated Fluid Communication Mechanism	16361754	Mar 22, 2019		10408000	Sep 10, 2019	Weatherford Technology Holdings, LLC	1183999
6257 US	United States of America	Rotating Control Device, and Installation and Retrieval Thereo	15153356	May 11, 2016		10995562	May 4, 2021	Weatherford Technology Holdings, LLC	759752
6257 US-DV1	United States of America	Rotating Control Device, and Installation and Retrieval Thereo	15880186	Dec 21, 2017		10995562	May 4, 2021	Weatherford Technology Holdings, LLC	974402
6257 US-DV2	United States of America	Rotating Control Device, and Installation and Retrieval Thereo	17219904	Mar 31, 2021		10344573	Jul 14, 2020	Weatherford Technology Holdings, LLC	166510
6258 US	United States of America	Position Sensing for Wellbore Pumping Unit	15448231	Mar 2, 2017		10145186	Jul 9, 2019	Weatherford Technology Holdings, LLC	858905
6260 US	United States of America	Low Marking Inserts for Casing/Tubing Tools	15349665	Nov 11, 2016		10145186	Dec 4, 2018	Weatherford Technology Holdings, LLC	766080
6261 US	United States of America	Leak Detection for Downhole Isolation Valve	15425688	Feb 6, 2017		10837275	Nov 17, 2020	Weatherford Technology Holdings, LLC	766307
6262 US	United States of America	Mechanically Operated Reverse Cementing Crossover Tool	15184885	Jan 16, 2016		10392898	Aug 17, 2019	Weatherford Technology Holdings, LLC	766275
6263 US	United States of America	Control for Rotary Steerable System	15282379	Sep 30, 2016		10415363	Sep 17, 2019	Weatherford Technology Holdings, LLC	770155
6263 US-CM1	United States of America	Control for Rotary Steerable System	16553271	Aug 6, 2019		10287821	May 14, 2019	Weatherford Technology Holdings, LLC	1255098
6265 US	United States of America	Roll Stabilizer Rotary Steerable System	15482229	Mar 7, 2017		10053948	May 14, 2019	Weatherford Technology Holdings, LLC	770160
6266 US	United States of America	Tension-Set Tieback Packer	15282896	Sep 30, 2016		10053948	Aug 21, 2018	Weatherford Technology Holdings, LLC	771519



6267A-US	United States of America	Casing Floation System With Latch-In Plugs	1535215	Oct 26, 2016	10648272	May 12, 2020	Weatherford Netherlands B.V.	8227250
6267 US	United States of America	Top Plug With Transitionable Seal	1535118	Oct 26, 2016	10954740	Mar 23, 2021	Weatherford Netherlands B.V.	1771522
6267 US-DV1	United States of America	Top Plug With Transitionable Seal	16860266	Apr 28, 2017	11047202	Jun 29, 2021	Weatherford Netherlands B.V.	1457523
6268 PCT-US	United States of America	Connector Apparatus	15301075	Sep 19, 2017				1148673
6272 US	United States of America	Downhole Casing Pulling Tool	15454921	Mar 10, 2017		Mar 19, 2019		790448
6274 US	United States of America	Annulus Isolation in Drilling/Milling Operations	15208472	Jul 12, 2016	10445816	Oct 29, 2019	Weatherford Technology Holdings, LLC	790448
6275 US	United States of America	Movable Tong Assembly	15357823	Nov 21, 2016	10337264	Jul 2, 2019	Weatherford Technology Holdings, LLC	790655
6275 US-CN1	United States of America	Automated Load Cell Identification	15337148	Oct 28, 2016	10436658	Oct 8, 2019	Weatherford Technology Holdings, LLC	790688
6277 US	United States of America	Automated Load Cell Identification	15552489	Aug 27, 2016	10760987	Sep 1, 2019	Weatherford Technology Holdings, LLC	792717
6277 US	United States of America	Drilling Head With Non-Rotating Annular Seal Assembly	15219400	Jul 28, 2016	10190378	Jan 29, 2019	Weatherford Technology Holdings, LLC	792717
6279 US	United States of America	Pulsed Neutron Determination of Gravel Pack Density	15720541	Oct 4, 2017	10215880	Feb 26, 2019	Weatherford Technology Holdings, LLC	795214
6280 PCT-US	United States of America	Apparatus and Method for Downhole Data Acquisition and/or	16316544	Jul 18, 2017		Jan 9, 2019	Weatherford U.K. Limited	1100285
6284 US	United States of America	Apparatus and Method of Monitoring a Rod Pumping Unit	15212008	Jul 15, 2016	10215012	Feb 26, 2019	Weatherford Technology Holdings, LLC	799277
6285 US	United States of America	Downhole Packer Element With Propped Elements	15276574	Sep 27, 2016	10294749	Feb 19, 2019	Weatherford Technology Holdings, LLC	800894
6286 US	United States of America	Valve Assembly for Wellbore Equipment	15332193	Oct 24, 2016	10208567	Nov 5, 2019	Weatherford Technology Holdings, LLC	800926
6292 US	United States of America	Techniques for Determining Formation Composition from Well	15860293	Jan 2, 2018	10466384	Nov 5, 2019	Weatherford Technology Holdings, LLC	803836
6295 US	United States of America	Jet Pump Lift System for Producing Hydrocarbon Fluids	15291250	Oct 12, 2016	10364640	Jul 30, 2019	Weatherford Technology Holdings, LLC	803432
6296 US	United States of America	Packer Setting During High Flow Rate	15276094	Sep 26, 2016	10385640	Aug 20, 2019	Weatherford Technology Holdings, LLC	807645
6297 US	United States of America	Transition Cutting Casing and Wellhead Retrieval System	15403000	Jan 10, 2017	10378304	Aug 13, 2019	Weatherford Netherlands B.V.	809040
6299 US	United States of America	Sub-Surface Release Plug System	15452975	Mar 8, 2017				809448
6299 US-DV1	United States of America	Sub-Surface Release Plug System	16454575	Jun 27, 2019				1188123
6300 US	United States of America	Apparatus and Methods for Operating Gas Lift Wells	15388276	Dec 22, 2016	10689958	Jun 23, 2020	Weatherford Technology Holdings, LLC	813508
6300 US-CN1	United States of America	Apparatus and Methods for Operating Gas Lift Wells	16875110	May 15, 2020	10920546	Feb 16, 2021	Weatherford Technology Holdings, LLC	1474110
6301 US	United States of America	Antenna for Downhole Communication	15948377	Dec 20, 2017				960893
6303 US-CN1	United States of America	Apparatus and Method of Connecting Tubulars	15455515	Mar 10, 2017	10465458	Nov 5, 2019	Weatherford Technology Holdings, LLC	862459
6303 US-CN2	United States of America	Apparatus and Method of Connecting Tubulars	15899037	Feb 5, 2018	10711543	Jul 14, 2020	Weatherford Technology Holdings, LLC	991927
6303 US-CN3	United States of America	Apparatus and Method of Connecting Tubulars	16897530	Jul 13, 2020				1538812
6304 US	United States of America	Autonomous Connection Evaluation and Automated Shoulder	15445361	Feb 28, 2017	10422450	Sep 24, 2019	Weatherford Technology Holdings, LLC	862301
6304 US-CN1	United States of America	Autonomous Connection Evaluation and Automated Shoulder	15445492	Jun 24, 2019	109659040	Apr 6, 2021	Weatherford Technology Holdings, LLC	1225761
6305 US	United States of America	Managed Pressure Control System with Variable Built-In Act	15375409	Dec 12, 2016	10393702	Aug 27, 2019	Weatherford Technology Holdings, LLC	813606
6306 US	United States of America	Defect Penetration Estimate Using Magnetic Flux Ingate	15344408	Nov 2, 2016	10837256	Nov 17, 2020	Weatherford U.K. Limited	814076
6307 US	United States of America	Apparatus and Methods for Use in Wellbore Packer	15201591	Sep 12, 2017				1596414
6307 US-DV1	United States of America	Apparatus and Methods for Use in Wellbore Packer	17072926	Oct 16, 2020	10689956	Jun 23, 2020	Weatherford Technology Holdings, LLC	1596414
6308 US	United States of America	Retrieval of Multi-Component Plunger in Well Plunger Lift Syst	15290829	Oct 11, 2016	10408043	Sep 10, 2019	Weatherford Technology Holdings, LLC	815855
6309 US	United States of America	Well Testing with Jet Pump	15298708	Oct 20, 2016	10385663	Aug 20, 2019	Weatherford Technology Holdings, LLC	815864
6310 US	United States of America	Subsurface Pump for Use in Well Artificial Lift Operations	15299978	Oct 21, 2016				815864
6310 US-CN1	United States of America	Well Artificial Lift Operations with Sand and Gas Tolerant Pump	16411452	May 14, 2019	10392875	Aug 27, 2019	Weatherford Technology Holdings, LLC	1187702
6313 US	United States of America	Gripper Assembly for Continuous Rod and Methods of Use Th	15281274	Sep 30, 2016				817278
6313 US-CN1	United States of America	Gripper Assembly for Continuous Rod and Methods of Use Th	16551043	Aug 26, 2019		Aug 26, 2019		1238256
6318 US	United States of America	Pumping Unit Bases with Driven Piles	15345674	Nov 8, 2016	10900193	Jan 26, 2021	Weatherford Technology Holdings, LLC	817418
6318 US-CN1	United States of America	Pumping Unit Bases with Driven Piles	17147693	Jan 13, 2021				1621565
6329 US	United States of America	Low Profile Stop Collar (Bow Sleeve)	15364395	Nov 30, 2016	10538975	Jan 21, 2020	Weatherford Technology Holdings, LLC	817722
6333 US	United States of America	Downhole Apparatus	15953030	Apr 13, 2018				996708
6342 US	United States of America	Apparatus and Methods for Counterbalancing a Pumping Unit	15345288	Nov 7, 2016	10539518	Jan 21, 2020	Weatherford Technology Holdings, LLC	813942
6343 US	United States of America	X-Ray Based Fatigue Inspection of Downhole Component	15595603	May 15, 2017				1263150
6344 PCT-US	United States of America	Downhole Valve Assembly	16607041	Apr 19, 2018		Oct 21, 2019		821066
6345 US	United States of America	Installation and Retrieval of Pressure Control Device	15378213	Dec 14, 2016	10876368	Dec 29, 2020	Weatherford Technology Holdings, LLC	821066
6347 US	United States of America	Installation and Retrieval of Pressure Control Device	15378267	Dec 14, 2016	10370923	Aug 6, 2019	Weatherford Technology Holdings, LLC	823605
6348 PCT-US	United States of America	Fracturing Method Using a Low-Viscosity Fluid with Low Propp	16610432	May 1, 2018		Nov 1, 2019		1291757
6349 PCT-US	United States of America	Fracturing Method Using a Low-Viscosity Fluid with Low Propp	16628234	Jan 2, 2020				1386618
6350 US	United States of America	Determining Angular Offset Between Geomagnetic and Gravim	15482714	Apr 13, 2017	10641077	May 5, 2020	Weatherford Technology Holdings, LLC	827245
6351 US	United States of America	Systems and Methods for Optimization of the Number of Dwe	15439757	Feb 22, 2017	10914139	Feb 9, 2021	Weatherford Technology Holdings, LLC	829525
6352 US	United States of America	Chemical Injection Valve with Steam Bypass Flow	15799039	Oct 31, 2017				960049
6353 US	United States of America	Positioning Tool	15667404	Aug 2, 2017	10677892	Mar 3, 2020	Weatherford Technology Holdings, LLC	833878
6356 US	United States of America	Optical Imaging and Assessment System for Tong Cassette	15666114	Aug 18, 2017	10366507	Jan 30, 2019	Weatherford Technology Holdings, LLC	833888
6358 US	United States of America	Dual Torque Transfer for Top Drive System	15447881	Mar 2, 2017	10132118	Nov 20, 2018	Weatherford Technology Holdings, LLC	834405
6359 US	United States of America	Coupler With Threaded Connection For Pipe Handler	15444016	Feb 27, 2017	10704864	Jul 7, 2020	Weatherford Technology Holdings, LLC	834407
6360 US	United States of America	Downhole Tool Coupling System	15670897	Aug 7, 2017	10748978	Aug 18, 2020	Weatherford Technology Holdings, LLC	834412
6361A-US	United States of America	Tool Coupler with Data and Signal Transfer Methods for Top	15730305	Oct 11, 2017				907510
6361 US	United States of America	Tool Coupler with Heating Coupling Method for Top Drive	15445758	Feb 28, 2017	10954253	Mar 23, 2021	Weatherford Technology Holdings, LLC	834415
6362 US	United States of America	Interchangeable Swivel Combined Multicooupler	15607159	May 26, 2017	10711574	Jul 14, 2020	Weatherford Technology Holdings, LLC	834419
6363 US	United States of America	Interchangeable Swivel Combined Multicooupler	16866201	Apr 23, 2020				1485808
6364 US	United States of America	Correction for Drill Pipe Compression	15790455	May 19, 2017	10443334	Oct 15, 2019	Weatherford Technology Holdings, LLC	841179
6365 US	United States of America	Self-Adjusting Slips	15445588	Feb 28, 2017	10704817	Jul 21, 2020	Weatherford Technology Holdings, LLC	841199
6366 US	United States of America	Retention System for Bottom Hole Assembly and Whipstock	15730455	Oct 11, 2017	10704328	Jul 7, 2020	Weatherford Technology Holdings, LLC	841203
6367 US	United States of America	Sealing Apparatus and Associated Methods of Manufacturing	15463837	Mar 20, 2017	10519740	Dec 31, 2019	Weatherford Technology Holdings, LLC	841353
6367 US	United States of America	Gripping Apparatus and Associated Methods of Manufactur	15464131	Mar 20, 2017	10472911	Nov 12, 2019	Weatherford Technology Holdings, LLC	841359
6369 US	United States of America	Combined Multi-Coupler for Top Drive	15656914	Jul 21, 2017	10527104	Jan 7, 2020	Weatherford Technology Holdings, LLC	842428

6370 US	United States of America	Combined Multi-Coupler for Top Drive	15627237	Jun 19, 2017	Mar 2, 2017	10544631	Jan 28, 2020	Weatherford Technology Holdings, LLC	842429
6371 US	United States of America	Combined Multi-Coupler with Rotating Fixations for Top Drive	15447926	Jun 19, 2017	Mar 2, 2017	10480247	Nov 19, 2019	Weatherford Technology Holdings, LLC	842431
6372 US	United States of America	Tool Coupler with Sliding Coupling Members for Top Drive	15448297	Jun 19, 2017	Mar 2, 2017	10480247	Nov 19, 2019	Weatherford Technology Holdings, LLC	842432
6373 US	United States of America	Combined Multi-Coupler with Locking Clamp Connection for Top Drive	15627238	Jun 19, 2017	Mar 2, 2017	10526852	Jan 7, 2020	Weatherford Technology Holdings, LLC	842433
6374 US	United States of America	Tool Coupler with Threaded Connection for Top Drive	15457572	Mar 13, 2017	Mar 13, 2017	10247246	Apr 2, 2019	Weatherford Technology Holdings, LLC	842437
6374 US-DV1	United States of America	Tool Coupler with Threaded Connection for Top Drive	15809560	Nov 8, 2017	Nov 8, 2017	10837495	Nov 17, 2020	Weatherford Technology Holdings, LLC	964942
6375 US	United States of America	Combined Multi-Coupler with Rotating Locking Method for Top Drive	15721216	Sep 29, 2017	Sep 29, 2017	11047175	Jun 29, 2021	Weatherford Technology Holdings, LLC	842713
6376 US	United States of America	Combined Multi-Coupler	15656684	Jul 21, 2017	Jul 21, 2017	10443226	Oct 15, 2019	Weatherford Technology Holdings, LLC	892777
6376 US-DV1	United States of America	Combined Multi-Coupler	15656959	Aug 14, 2019	Aug 14, 2019	10450847	Oct 22, 2019	Weatherford Technology Holdings, LLC	856328
6381 US	United States of America	Subsurface Receiving Pump For Gassy and Sandy Fluids	15489951	Apr 18, 2017	Apr 18, 2017	10494877	Dec 3, 2019	Weatherford Technology Holdings, LLC	856333
6382 US	United States of America	Subsida Rotating Control Device Apparatus Having Debris Baffle	15628222	Apr 16, 2017	Apr 16, 2017	10598527	Mar 24, 2020	Weatherford Technology Holdings, LLC	856338
6383 US	United States of America	Differential Flow Measurement with Coriolis Flowmeter	15892900	Jan 29, 2018	Jan 29, 2018	10392872	Aug 27, 2020	Weatherford Technology Holdings, LLC	856357
6384 US	United States of America	Pressure Control Device for Use With a Subterranean Well	15597813	May 17, 2017	May 17, 2017	10272436	Jul 29, 2020	Weatherford Technology Holdings, LLC	856369
6384 US-CN1	United States of America	Pressure Control Device for Use With a Subterranean Well	15428923	May 31, 2019	May 31, 2019	10724316	Nov 19, 2019	Weatherford Technology Holdings, LLC	856369
6385 US	United States of America	Shifting Tool Restorable Downhole	15602275	May 23, 2017	May 23, 2017	10480236	Nov 19, 2019	Weatherford Technology Holdings, LLC	856371
6386 US	United States of America	Shifting Tool Restorable Downhole	15602356	May 23, 2017	May 23, 2017	10480236	Nov 19, 2019	Weatherford Technology Holdings, LLC	856372
6387 PCT-US	United States of America	Downhole Apparatus	15665550	Feb 15, 2019	Feb 15, 2019	10480230	Weatherford U.K. Limited	1530420	
6389 PCT-US	United States of America	Casing Scraper Activated and Deactivated Downhole	15604010	Jun 9, 2017	Jun 9, 2017	11060379	Jul 13, 2021	Weatherford Technology Holdings, LLC	1261399
6390 US	United States of America	Whipstack Assembly for Forming a Window	15953988	Apr 16, 2018	Apr 16, 2018	10605021	Weatherford Technology Holdings, LLC	856528	
6391 PCT-US	United States of America	Method and Apparatus for Washing an Annulus	15748476	Nov 19, 2018	Nov 19, 2018	1475094	Weatherford U.K. Limited	1475094	
6392 US	United States of America	Local Electric Power Generation on a Tong by Hydraulic Power	15607049	May 26, 2017	May 26, 2017	10787869	Sep 29, 2020	Weatherford Technology Holdings, LLC	859328
6393 US	United States of America	Electric Tong with Onboard Hydraulic Power Unit	15675404	Aug 11, 2017	Aug 11, 2017	10787869	Sep 29, 2020	Weatherford Technology Holdings, LLC	859343
6393 US-CN1	United States of America	Electric Tong with Onboard Hydraulic Power Unit	17034958	Sep 28, 2020	Sep 28, 2020	10801303	Oct 13, 2020	Weatherford Technology Holdings, LLC	1475109
6394 US	United States of America	Well Fluid Flow Control Choke	15727993	Oct 6, 2017	Oct 6, 2017	10801303	Oct 13, 2020	Weatherford Technology Holdings, LLC	860615
6394 US-CN1	United States of America	Well Fluid Flow Control Choke	17004582	Aug 27, 2020	Aug 27, 2020	10393920	Aug 27, 2019	Weatherford Technology Holdings, LLC	1543156
6398 US	United States of America	Assessing Organic Richness Using Microseismicity Images and	154827106	Jun 26, 2017	Jun 26, 2017	10794473	Oct 6, 2020	Weatherford Technology Holdings, LLC	863591
6401 US	United States of America	Bearing Fault Detection for Surface Pumping Units	17022180	Sep 16, 2020	Sep 16, 2020	10383336	Jul 2, 2019	Weatherford Technology Holdings, LLC	1528338
6401 US-CN1	United States of America	Bearing Fault Detection for Surface Pumping Units	15964205	Jan 8, 2018	Jan 8, 2018	10527812	Jul 2, 2019	Weatherford Technology Holdings, LLC	867860
6403 US-CN1	United States of America	Fiber Optic Cable for Inhibiting Breaching Fluid Flow	15230488	Dec 21, 2018	Dec 21, 2018	11135133	Jan 7, 2020	Weatherford Technology Holdings, LLC	11135133
6406 US	United States of America	Shunt Tube Connection Assembly	15951859	Apr 12, 2018	Apr 12, 2018	10920357	Feb 16, 2021	Weatherford Technology Holdings, LLC	1026676
6407 US	United States of America	Shroud Assembly	15951923	Apr 12, 2018	Apr 12, 2018	10920357	Feb 16, 2021	Weatherford Technology Holdings, LLC	1026676
6409 PCT-US	United States of America	Pressure Integrity Testing of One-Trip Completion Assembly	15611464	May 22, 2018	May 22, 2018	10619440	Apr 14, 2020	Weatherford Technology Holdings, LLC	1307186
6411 US	United States of America	Communication Through a Hanger and Wellhead	15958336	May 5, 2017	May 5, 2017	10619440	Apr 14, 2020	Weatherford Technology Holdings, LLC	879756
6413 US	United States of America	Method and System for Performing Operations and for Improving	09566648	Jun 1, 2000	Jun 1, 2000	7283061	Oct 16, 2007	Weatherford Technology Holdings, LLC	873538
6414 US-CN1	United States of America	Method and System for Performing Operations and for Improving	10323536	Dec 18, 2002	Dec 18, 2002	7402063	Oct 16, 2007	Weatherford Technology Holdings, LLC	873539
6414 US-CN1	United States of America	Process and Assembly for Identifying and Tracking Assets	11377336	Mar 16, 2006	Mar 16, 2006	7677439	Mar 16, 2010	Weatherford Technology Holdings, LLC	878721
6418 US	United States of America	Systems, Assemblies and Processes for Controlling Tools in a Well	12102687	Apr 14, 2008	Apr 14, 2008	10119377	Nov 6, 2018	Weatherford Technology Holdings, LLC	878800
6418 US	United States of America	Systems, Assemblies and Processes for Controlling Tools in a Well	12040897	Mar 7, 2008	Mar 7, 2008	9194227	Nov 24, 2018	Weatherford Technology Holdings, LLC	878796
6419 US-DV1	United States of America	Systems, Assemblies and Processes for Controlling Tools in a Well	14938412	Nov 11, 2015	Nov 11, 2015	10107071	Oct 23, 2018	Weatherford Technology Holdings, LLC	878805
6419 US	United States of America	Production Logging Processes and Systems	13081926	Apr 7, 2011	Apr 7, 2011	8850899	Oct 7, 2014	Weatherford Technology Holdings, LLC	878807
6420 US	United States of America	Process for Fracturing a Well	13210473	Aug 16, 2011	Aug 16, 2011	8783350	Jul 22, 2014	Weatherford Technology Holdings, LLC	878812
6421 US	United States of America	Provision of Fiberglass Lines in a Well Tool	15658885	Jun 30, 2017	Jun 30, 2017	10513904	Dec 24, 2019	Weatherford Technology Holdings, LLC	883971
6423 US	United States of America	Rotary Steerable System Having Actuator with Linkage	15796844	Oct 29, 2017	Oct 29, 2017	10683702	Jan 16, 2020	Weatherford Technology Holdings, LLC	885951
6429 US	United States of America	Rotating Disk Valve for Rotary Steerable Tool	15796845	Oct 29, 2017	Oct 29, 2017	10544650	Jan 28, 2020	Weatherford Technology Holdings, LLC	885954
6429 US	United States of America	Apparatus and Method for Cutting Casings	15815994	Nov 16, 2017	Nov 16, 2017	10808481	Oct 20, 2020	Weatherford Technology Holdings, LLC	890341
6430 US	United States of America	System and Method for Handling Pumping Units in Out of Well	15643769	Jul 7, 2017	Jul 7, 2017	10546159	Jan 28, 2020	Weatherford Technology Holdings, LLC	893627
6431 PCT-US	United States of America	Downhole Fluid Control Apparatus	15621055	May 17, 2018	May 17, 2018	10685621	Weatherford U.K. Limited	1354688	
6431 US	United States of America	Shifting Tool and Associated Methods for Operating Downhole	15682907	Aug 22, 2017	Aug 22, 2017	10472906	Weatherford Technology Holdings, LLC	938811	
6435 PCT-US	United States of America	Internet of Things Gateway Systems and Methods for Oil and	16730896	Jul 25, 2018	Jul 25, 2018	10655428	May 19, 2020	Weatherford Technology Holdings, LLC	902324
6436 US	United States of America	Apparatus and Methods for Tong Operation	15662427	Aug 21, 2017	Aug 21, 2017	10472906	Nov 12, 2019	Weatherford Technology Holdings, LLC	902324
6436 US-CN1	United States of America	Apparatus and Methods for Tong Operation	15678519	Nov 8, 2019	Nov 8, 2019	10822893	Nov 3, 2020	Weatherford Technology Holdings, LLC	1307742
6438 US	United States of America	Tool Joint Hiding Apparatus and Method	15789762	Oct 20, 2017	Oct 20, 2017	10995570	May 4, 2021	Weatherford Technology Holdings, LLC	903369
6439 US	United States of America	Artificial Lift System with Enclosed Rod Rotator	15689571	Sep 7, 2017	Sep 7, 2017	10995570	May 4, 2021	Weatherford Technology Holdings, LLC	903369
6440 PCT-US	United States of America	Corrosion Resistant Slurder Rod	16074594	Aug 11, 2017	Aug 11, 2017	10856621	Dec 15, 2020	Weatherford Technology Holdings, LLC	1034604
6441 US	United States of America	Pressure Equalization for Well Pressure Control Device	15738371	Oct 13, 2017	Oct 13, 2017	10656621	Dec 15, 2020	Weatherford Technology Holdings, LLC	905922
6442 US	United States of America	Installation and Retrieval of Well Pressure Control Device	15738384	Oct 13, 2017	Oct 13, 2017	10655021	Mar 31, 2020	Weatherford Technology Holdings, LLC	905955
6443 US	United States of America	Flow Control Device	15838023	Dec 11, 2017	Dec 11, 2017	10655428	May 19, 2020	Weatherford Technology Holdings, LLC	906289
6445 US	United States of America	Well Tool Anchor and Associated Methods	15699592	Sep 8, 2017	Sep 8, 2017	10655428	May 19, 2020	Weatherford Technology Holdings, LLC	907894
6445 US	United States of America	Plug Setting	16109459	Aug 22, 2018	Aug 22, 2018	10822892	Nov 3, 2020	Weatherford Technology Holdings, LLC	908354
6445 US	United States of America	Wellbore Tool Coupling Mechanism	15843844	Dec 15, 2017	Dec 15, 2017	10822892	Nov 3, 2020	Weatherford Technology Holdings, LLC	909223
6451 US	United States of America	Control System for Hydrocarbon Recovery Tools	15804690	Nov 6, 2017	Nov 6, 2017	10480291	Nov 19, 2019	Weatherford Technology Holdings, LLC	909377
6451 US-CN1	United States of America	Control System for Hydrocarbon Recovery Tools	15853172	Aug 5, 2019	Aug 5, 2019	10650516	Mar 31, 2020	Weatherford Technology Holdings, LLC	1225814
6451 US-CN2	United States of America	Control System for Hydrocarbon Recovery Tools	15889716	May 29, 2020	May 29, 2020	10650516	Mar 31, 2020	Weatherford Technology Holdings, LLC	1397468
6454 US	United States of America	Tong Assembly	15815590	Sep 16, 2017	Sep 16, 2017	10650516	Mar 31, 2020	Weatherford Technology Holdings, LLC	918528
6455 US	United States of America	Bottom Hole Assembly for Configuring Between Artificial Lift	15729176	Oct 31, 2017	Oct 31, 2017	1065049	Mar 31, 2020	Weatherford Technology Holdings, LLC	918858
6457 PCT-US	United States of America	Chemical Injection Valve with Enhanced Sealing Capability	15799176	Sep 28, 2018	Sep 28, 2018	10655049	Mar 31, 2020	Weatherford Technology Holdings, LLC	943441
6458 US	United States of America	Downhole Apparatus	16641490	Sep 28, 2018	Sep 28, 2018	10455485	Nov 5, 2019	Weatherford U.K. Limited	1408825
6458 US	United States of America	Erosion Resistant Shunt Tube Assembly for Wellscreen	15814522	Nov 16, 2017	Nov 16, 2017	10455485	Nov 5, 2019	Weatherford Technology Holdings, LLC	943534

6458 US-CIP	United States of America	Erosion Resistant Shunt Tube Assembly for Wellscreen	15954129	Apr 16, 2018		10711579	Jul 14, 2020	Weatherford Technology Holdings, LLC	1027157
6460 US-CN1	United States of America	Lead Balanced Power Section of Progressing Cavity Device	15814541	Nov 16, 2017		11035338	Jun 15, 2021	Weatherford Technology Holdings, LLC	949292
6460 US-CN1	United States of America	Lead Balanced Power Section of Progressing Cavity Device	16860185	Apr 28, 2020				Weatherford Technology Holdings, LLC	1468186
6465 US	United States of America	Well Plugs and Associated Systems and Methods	15941651	Dec 14, 2017				Weatherford Technology Holdings, LLC	9602186
6465 US-CN1	United States of America	Multiple Setting and Unsetting of Inflatable Well Packer	15831659	Dec 5, 2017		10544647	Jan 28, 2020	Weatherford Technology Holdings, LLC	961432
6466 US-CN1	United States of America	Multiple Setting and Unsetting of Inflatable Well Packer	16415775	May 17, 2019		11008826	May 18, 2021	Weatherford Technology Holdings, LLC	1161303
6466 US-CN1	United States of America	Tubular Compression System	16894554	Dec 7, 2017				Weatherford Technology Holdings, LLC	1474077
6467 US-CN1	United States of America	Wear Bushing Deployment and Retrieval Tool for Subsea Well	15892275	Feb 8, 2018		10662743	May 26, 2020	Weatherford Technology Holdings, LLC	9675724
6467 US-CN1	United States of America	Wear Bushing Deployment and Retrieval Tool for Subsea Well	15892275	Feb 8, 2018				Weatherford Technology Holdings, LLC	1468189
6468 US-CN1	United States of America	Completion System Apparatus	15963910	Feb 8, 2019				Weatherford U.K. Limited	1520520
6468 US-CN1	United States of America	Completion System Apparatus	15963910	Feb 8, 2019				Weatherford U.K. Limited	966568
6470 US	United States of America	Assembly and Method for Performing Aligned Operation With	15895855	Dec 19, 2017		10590732	Mar 17, 2020	Weatherford Technology Holdings, LLC	969547
6470 US	United States of America	Packing Element Booster with Retract Mechanism	15847706	Dec 19, 2017				Weatherford Technology Holdings, LLC	969547
6471 US	United States of America	Compressor System for a Tong Assembly	16109312	Aug 22, 2018				Weatherford Technology Holdings, LLC	974248
6472 US	United States of America	Tubular Stabbing Guide for Tong Assembly	15917459	Mar 9, 2018		10648255	May 12, 2020	Weatherford Technology Holdings, LLC	974248
6473 US	United States of America	Downhole Casing Pulling Device	16109222	Aug 22, 2018		11060381	Jul 13, 2021	Weatherford Technology Holdings, LLC	985546
6475 US	United States of America	Downhole Casing Pulling Tool	15924009	Mar 16, 2018				Weatherford Technology Holdings, LLC	996853
6475 US	United States of America	Downhole Casing Pulling Tool	17202482	Mar 16, 2021				Weatherford Technology Holdings, LLC	1633788
6477 US-CN1	United States of America	Downhole Collar Utilizing Movable Anchor Elements	17064779	May 11, 2019				Weatherford Technology Holdings, LLC	153216
6478 US	United States of America	Boyvart System for Installing a Casing String	16408742	May 11, 2019		10883333	Jan 5, 2021	Weatherford Technology Holdings, LLC	153216
6478 US	United States of America	Boyvart System for Installing a Casing String	15962151	May 17, 2018		10808490	Oct 20, 2020	Weatherford Technology Holdings, LLC	1154077
6479 US	United States of America	Hydraulic Drilling Jar with Hydraulic Lock Piston	15944147	Apr 3, 2018				Weatherford Technology Holdings, LLC	996818
6483 US	United States of America	Wellbore Tong	16032310	Jul 11, 2018		10760359	Sep 1, 2020	Weatherford Technology Holdings, LLC	10011178
6483 US	United States of America	Apparatus and Methods for Determining Operational Mode of	16109071	Aug 22, 2018				Weatherford Technology Holdings, LLC	10011184
6483 US-D1	United States of America	Apparatus and Methods for Determining Operational Mode of	17381300	Jul 21, 2021				Weatherford Technology Holdings, LLC	1701570
6483 US-CN1	United States of America	Sensor System for Tong Assembly	16109414	Aug 22, 2018		10995569	May 4, 2021	Weatherford Technology Holdings, LLC	10011188
6483 US-CN1	United States of America	Sensor System for Tong Assembly	17189682	Mar 2, 2021				Weatherford Technology Holdings, LLC	1630879
6487 US-CN1	United States of America	Systems and Methods to Increase the Durability of Carbonate	17287014	Oct 26, 2018				Weatherford Technology Holdings, LLC	1659373
6488 US	United States of America	Start Well Pumping Unit	15965718	Apr 27, 2018		10760386	Sep 1, 2020	Weatherford Technology Holdings, LLC	1027078
6489 US	United States of America	Valve Assembly for Downhole Pump of Reciprocating Pump St	15981677	May 16, 2018		10767445	Sep 8, 2020	Weatherford Technology Holdings, LLC	1027078
6490 US	United States of America	Pumping Unit Counterweight Balancing	15972746	Mar 7, 2018		10598412	Mar 24, 2020	Weatherford Technology Holdings, LLC	1029198
6490 US-DV1	United States of America	Pumping Unit Counterweight Balancing	15972746	Jul 25, 2019		11009022	May 18, 2021	Weatherford Technology Holdings, LLC	1030245
6493 US	United States of America	Streamlined Valve Assembly for Downhole Pump of Reciproc	16026400	Jul 3, 2018				Weatherford Technology Holdings, LLC	1031460
6494 US	United States of America	Whip Ring Assembly with Energizing Member	16026296	Jul 3, 2018		10900483	Jan 26, 2021	Weatherford Technology Holdings, LLC	1031460
6495 US-CN1	United States of America	Determination of Elemental Concentrations From the Capture	15734503	Sep 24, 2018		10724322	Jul 28, 2020	Weatherford Technology Holdings, LLC	1037122
6495 US	United States of America	Apparatus and Method for Forming a Lateral Wellbore	16052377	Aug 1, 2018		11085253	Aug 10, 2020	Weatherford Technology Holdings, LLC	1060320
6501 US	United States of America	Tong Assembly with Door Position Sensors	16518161	Nov 1, 2019				Weatherford Technology Holdings, LLC	1291749
6503 US	United States of America	Segmented Brake Band	16274952	Feb 13, 2019				Weatherford Technology Holdings, LLC	1049931
6504 US	United States of America	Gas Lift Valve Having Shear Open Mechanism for Pressure Tea	16064758	Jul 26, 2018		10737889	Sep 29, 2020	Weatherford Technology Holdings, LLC	1050220
6506 US	United States of America	Cable to Reduce Optical Fiber Movement and Methods to Fab	16511190	Jul 15, 2019				Weatherford Technology Holdings, LLC	1076854
6507 US	United States of America	Interlocking Fracture Plug for Pressure Isolation and Removal	16054855	Aug 3, 2018		1051148	Mar 24, 2020	Weatherford Technology Holdings, LLC	1051148
6519 US	United States of America	Autonomous Connection Makeup and Evaluation	16282959	Dec 21, 2018		10844675	Nov 24, 2020	Weatherford Technology Holdings, LLC	1062844
6519 US-CN1	United States of America	Autonomous Connection Makeup and Evaluation	17073351	Oct 16, 2020				Weatherford Technology Holdings, LLC	1583743
6520 US	United States of America	Tubular Handling Apparatus	16211017	Dec 5, 2018				Weatherford Technology Holdings, LLC	1062846
6521 US	United States of America	Connecting Sucker Rods with Couplings Having Dry Film Lubr	16237773	Jan 22, 2019		11021930	Jun 1, 2021	Weatherford Technology Holdings, LLC	1072324
6522 US	United States of America	Diverter Tool and Associated Methods	16257930	Dec 12, 2018		10760355	Sep 1, 2020	Weatherford Technology Holdings, LLC	1072326
6523 US	United States of America	Flat Shoe Having Concrete Filled, Eccentric Nose with Jets	16272056	Feb 7, 2019				Weatherford Technology Holdings, LLC	1072326
6525 US	United States of America	Release Mechanism for a Whipstock	16220531	Dec 14, 2018				Weatherford Technology Holdings, LLC	1072332
6527 US	United States of America	Release Mechanism for a Whipstock	17188826	Jan 14, 2021				Weatherford Technology Holdings, LLC	1621831
6528 US	United States of America	Rotary Drilling Apparatus for a Power Tong	16193675	Nov 16, 2018		10876374	Dec 29, 2020	Weatherford Technology Holdings, LLC	1088726
6528 US	United States of America	Rotary Drilling Apparatus for a Power Tong	16527572	Oct 18, 2019				Weatherford Technology Holdings, LLC	1090800
6529 US	United States of America	Apparatus and Method for Leaching Tool Joint	16379142	Apr 9, 2019		10975681	Apr 13, 2021	Weatherford Technology Holdings, LLC	1090887
6530 US	United States of America	Brakes for a Tong	16779658	Feb 3, 2020				Weatherford Technology Holdings, LLC	1090884
6531 US	United States of America	Bottom Hole Assembly with a Cleaning Tool	16176652	Oct 31, 2018		11047210	Jun 29, 2021	Weatherford Technology Holdings, LLC	1091256
6532 US-CN1	United States of America	High Expansion Well Tool and Associated Methods	16224993	Dec 19, 2018				Weatherford Technology Holdings, LLC	1688341
6533 US	United States of America	Self-Aligning, Multi-Sub Connectors for Managed Pressure D	16797148	Feb 21, 2020		10760372	Sep 1, 2020	Weatherford Technology Holdings, LLC	1092547
6534 US	United States of America	Apparatus for Connecting Drilling Components Between Rig a	16797175	Feb 21, 2020				Weatherford Technology Holdings, LLC	1420764
6537 US	United States of America	Caliper Behind Casing from Pulsed Neutron Apparatus	16421829	May 24, 2019		11078783	Aug 3, 2021	Weatherford Technology Holdings, LLC	1105602
6540 US	United States of America	Multi Range Load Cell	16802208	Feb 26, 2020				Weatherford Technology Holdings, LLC	1113966
6541 US	United States of America	Jet Pump Controller with Downhole Prediction	16363922	Mar 25, 2019		11078766	Aug 3, 2021	Weatherford Technology Holdings, LLC	1117665
6542 US	United States of America	Corrosion and Abrasion Resistant Sucker Rod	16276658	Feb 15, 2019				Weatherford Technology Holdings, LLC	1133766
6546 US	United States of America	Pumping Unit Having Zero-Imbalance Beam, Lagging Counte	16372218	Apr 1, 2019				Weatherford Technology Holdings, LLC	1142894
6547 US-CN1	United States of America	Retrievable Art-Extrusion Force Back Ring Backup for Seal El	16854922	Feb 4, 2020				Weatherford Technology Holdings, LLC	11507949
6548 US	United States of America	Load Cell for a Tong Assembly	16485492	Apr 22, 2020				Weatherford Technology Holdings, LLC	1143726
6549 US	United States of America	Processing of Dispersive Waves in Acoustic Logging	164800716	May 1, 2019				Weatherford Technology Holdings, LLC	1170345
6552 US	United States of America	Setting Tool for a Line Hanger	16654198	Oct 17, 2019				Weatherford Technology Holdings, LLC	1150278
6553 US	United States of America	Neutron Time of Flight Wellbore Logging	16460687	Jul 2, 2019				Weatherford Technology Holdings, LLC	1150405
6555 US	United States of America	Borehole Compensation During Pulsed-Neutron Porosity Loggi	16584318	Sep 26, 2019		11048015	Jun 29, 2021	Weatherford Technology Holdings, LLC	1290425

6555-US-CN1	United States of America	Borehole Compensation During Pulsed-Neutron Porosity Logging	17334410	May 28, 2021				Weatherford Technology Holdings, LLC	15665955
6556-US	United States of America	Perforating Apparatus	15843320	Apr 8, 2020				Weatherford U.K. Limited	1445374
6557-US	United States of America	Polished Rod Liner Assembly	16392051	Apr 23, 2019				Weatherford Technology Holdings, LLC	1542297
6558-US	United States of America	Prevention of Gas Migration Through Downhole Control Lines	16398880	Apr 30, 2019	10907454	Feb 2, 2021		Weatherford Technology Holdings, LLC	1542439
6559-US	United States of America	Upgrade kit to enable Operation of Verotangs with Position	17192689	Mar 4, 2021				Weatherford Technology Holdings, LLC	1156497
6560-US	United States of America	Tubing Tester Valve and Associated Methods	16398660	Apr 30, 2019				Weatherford Technology Holdings, LLC	1169213
6561-US	United States of America	Closest Hole Circulation Drilling with Continuous Downhole M	16435529	Jun 9, 2019				Weatherford Technology Holdings, LLC	1170652
6562-US	United States of America	Apparatus and Methods of Handling a Tubular	16880495	Apr 16, 2020				Weatherford Technology Holdings, LLC	1429098
6563-US	United States of America	Downhole Fiber Optic Wet Mate Connectors	16529624	Aug 1, 2019				Weatherford Technology Holdings, LLC	1185277
6564-US	United States of America	Drilling System and Method Using Calibrated Pressure Losses	16438377	Jun 6, 2019				Weatherford Technology Holdings, LLC	1185329
6565-US	United States of America	Pressure Isolated-Balanced Liner System & Method	16837934	Apr 1, 2020				Weatherford Technology Holdings, LLC	1188122
6571-US	United States of America	Outflow Control Device, Systems and Methods	16417399	May 20, 2019	10982507	Apr 20, 2021		Weatherford Technology Holdings, LLC	1188166
6571-US-DV1	United States of America	Outflow Control Device, Systems and Methods	17207806	Mar 20, 2021				Weatherford Technology Holdings, LLC	1656439
6573-US	United States of America	Rotating Hanger Running Tool	16528214	Jul 31, 2019	10534800	Mar 2, 2021		Weatherford Technology Holdings, LLC	1190128
6575A-US	United States of America	Debris Collection Tool	16883746	May 26, 2020				Weatherford Technology Holdings, LLC	1421458
6575-US	United States of America	Debris Collection Tool	16805941	Mar 2, 2020				Weatherford Technology Holdings, LLC	1190133
6579-US	United States of America	Injection Moulded Carrier for Frac Plug Slips	16805297	Feb 28, 2020				Weatherford Technology Holdings, LLC	1194470
6580-US	United States of America	Downhole Tool	16916279	Jun 30, 2020				Weatherford Technology Holdings, LLC	1194479
6581-US	United States of America	Downhole Tool	16523616	Jul 26, 2019				Weatherford Technology Holdings, LLC	1194879
6582-US	United States of America	Automatic Compensation for Surge and Swab During Pipe Mo	16554465	Aug 28, 2019				Weatherford Technology Holdings, LLC	1196887
6584-US	United States of America	Downhole Anchor with Strengthened Slips for Well Tool	16509643	Jul 12, 2019				Weatherford Technology Holdings, LLC	1222671
6586-US	United States of America	Application of Elastic Fluids in Hydraulic Fracturing Implement	16539645	Aug 13, 2019				Weatherford Technology Holdings, LLC	1258956
6588-US	United States of America	Apparatus and Method for Wet Shoe Applications	16539305	Aug 13, 2019				Weatherford Technology Holdings, LLC	1242206
6589-US	United States of America	Partially Retractable Core for Frac Plugs	17203968	Mar 17, 2021				Weatherford Technology Holdings, LLC	1243989
6591-US	United States of America	Strigger for Communicating Fluid Line with Downhole Tool	16552878	Aug 27, 2019				Weatherford Technology Holdings, LLC	1245211
6592-US	United States of America	Downhole Tool Having Non-Metallic Slip Inserts with Cavities	16722498	Feb 5, 2020				Weatherford Technology Holdings, LLC	1245805
6592-US-CN1	United States of America	Downhole Tool Having Low Density Slip Inserts	16818784	Mar 13, 2020				Weatherford Technology Holdings, LLC	1431327
6594-US	United States of America	Measuring Component Concentrations of Nonhomogeneous	16654672	Oct 16, 2019				Weatherford Technology Holdings, LLC	1253936
6595-US	United States of America	Ball in Place for Dissolvable and Composite Plugs	16911111	Jun 24, 2020				Weatherford Technology Holdings, LLC	1253939
6596-US	United States of America	Sietrack Assembly with Replaceable Mill Head for Open Hole	16894692	Jun 5, 2020	11053741	Jul 6, 2021		Weatherford Technology Holdings, LLC	1259989
6599-US	United States of America	System and Method for Electrical Control of Downhole Well T	16896497	Aug 18, 2020				Weatherford Technology Holdings, LLC	1259989
6600-US	United States of America	Controller for Wireline Tool	16595643	Oct 8, 2019				Weatherford Technology Holdings, LLC	1269407
6602-US	United States of America	Stage Cementing System	16888318	May 29, 2020				Weatherford Technology Holdings, LLC	1264312
6603-US	United States of America	Low Profile Stop Collar	16816578	Mar 31, 2020				Weatherford Technology Holdings, LLC	1324313
6610-US	United States of America	Continuous Fishing Method for Downhole Cutting Structures /	15931366	Jan 27, 2020				Weatherford Technology Holdings, LLC	1324320
6611-US	United States of America	Downhole Isolation Valve with Pressure Relief	15743436	May 13, 2020				Weatherford Technology Holdings, LLC	1400374
6613-US	United States of America	Tubular String Make-up Methods Utilizing Image Processing	16874266	May 14, 2020				Weatherford Technology Holdings, LLC	1403077
6614-US	United States of America	REAL TIME DETECTION AND REACTION TO ANOMALIES IN THE	17229212	Apr 13, 2021				Weatherford Technology Holdings, LLC	1403084
6616-US	United States of America	Optical Monitoring of Threaded Connection Make-up and Bre	16874405	May 14, 2020				Weatherford Technology Holdings, LLC	1403086
6617-US	United States of America	Permeable Screen Handling Area	16854517	Apr 21, 2020				Weatherford Technology Holdings, LLC	1407240
6618-US	United States of America	Setting Tool and Method	16849266	Apr 15, 2020				Weatherford Technology Holdings, LLC	1407244
6621-US	United States of America	Retractable Setting Tool for Well Plugs	16879493	May 20, 2020				Weatherford Technology Holdings, LLC	1407247
6623-US	United States of America	Improve Conventional Pumping Unit Inspection System	16993240	Aug 13, 2020				Weatherford Technology Holdings, LLC	1420237
6625-US	United States of America	Sealing Element Support Rings for Downhole Packers	16896185	Jun 8, 2020				Weatherford Technology Holdings, LLC	1420237
6625-US-CN1	United States of America	Controlled Deformation and Shape Recovery of Packing Elem	17157552	Oct 30, 2021				Weatherford Technology Holdings, LLC	1424116
6626-US	United States of America	Controlled Deformation and Shape Recovery of Packing Elem	16894482	Jun 5, 2020				Weatherford Technology Holdings, LLC	1624297
6627-US	United States of America	Flow Rate Optimizer	17085859	Oct 30, 2020				Weatherford Technology Holdings, LLC	1424117
6637-US	United States of America	Bi-Directional High Expansion Retractable Anchoring System	17065298	Oct 7, 2020				Weatherford Technology Holdings, LLC	1424118
6638-US	United States of America	Setting Depth/Pressure Insensitive Connector/Actuator	16891276	Jun 3, 2020				Weatherford Technology Holdings, LLC	1475010
6640-US	United States of America	Piston Initiator for Sietrack Assembly	17216313	Mar 29, 2021				Weatherford Technology Holdings, LLC	1510051
6641-US	United States of America	Tubular Gripping Apparatus	17066339	Oct 8, 2020				Weatherford Technology Holdings, LLC	1510363
6643-US	United States of America	Fluid Sampler Tool and Associated System and Method	17173574	Feb 12, 2021				Weatherford Technology Holdings, LLC	1531319
6644-US	United States of America	Carrier for Dropped Objects	17126599	Dec 18, 2020				Weatherford Technology Holdings, LLC	1542753
6645-US	United States of America	Well Bore Sensor Date Storage and Retrieval	17145137	Jan 8, 2021				Weatherford Netherlands B.V.	1542754
6646-US	United States of America	Wiper Plug	16951562	Nov 18, 2020				Weatherford Technology Holdings, LLC	1542755
6650-US	United States of America	Float Valve Insert	17242439	Apr 28, 2021				Weatherford Technology Holdings, LLC	1598972
6651-PROV-US	United States of America	Stage Tool Having Composite Seats	17242439	Apr 28, 2021				Weatherford Technology Holdings, LLC	1598972
6652-PROV-US	United States of America	Float Turbulation	63110649	Nov 6, 2020				Weatherford Technology Holdings, LLC	1600747
6654-US	United States of America	Pump Down Float Valve with HP Rupture Disc	17103838	Nov 6, 2020				Weatherford Technology Holdings, LLC	1600748
6655-US	United States of America	Emergency Release of Milling BHA From Conceive	17203838	Nov 24, 2020				Weatherford Technology Holdings, LLC	1603538
6656-US	United States of America	Operating Tool for an Artificial Lift System	17125932	Jan 27, 2021				Weatherford Technology Holdings, LLC	1606312
6657-US	United States of America	Alpha-VFHD Actuated Mill Release System	17184628	Feb 25, 2021				Weatherford Technology Holdings, LLC	1609738
6660-US	United States of America	Flow Measurement Apparatus and Associated Systems and M	17193149	Mar 5, 2021				Weatherford Technology Holdings, LLC	1616578
6667-US	United States of America	Gas Lift System	17344068	Jun 10, 2021				Weatherford Technology Holdings, LLC	1647610
6681-PROV-US	United States of America	Apparatus and Methods for Deploying a Sensor in a Downhole	63215088	Jun 25, 2021				Weatherford Technology Holdings, LLC	1693249
6682-PROV-US	United States of America	Elevator with Multiple Ear Configurations	63213880	Aug 11, 2021				Weatherford Technology Holdings, LLC	1701415