

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7163943

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST AT REEL 038710 FRAME 0845

CONVEYING PARTY DATA

Name	Execution Date
JPMORGAN CHASE BANK, N.A.	02/03/2022

RECEIVING PARTY DATA

Name:	WESTERN DIGITAL (FREMONT), LLC
Street Address:	3355 MICHELSON DRIVE
City:	IRVINE
State/Country:	CALIFORNIA
Postal Code:	92612
Name:	WESTERN DIGITAL TECHNOLOGIES, INC.
Street Address:	3355 MICHELSON DRIVE
City:	IRVINE
State/Country:	CALIFORNIA
Postal Code:	92612

PROPERTY NUMBERS Total: 843

Property Type	Number
Patent Number:	5750275
Patent Number:	5943761
Patent Number:	5959811
Patent Number:	5984104
Patent Number:	5986978
Patent Number:	5986995
Patent Number:	5996213
Patent Number:	6002552
Patent Number:	6016290
Patent Number:	6018441
Patent Number:	6025988
Patent Number:	6034851
Patent Number:	6043959
Patent Number:	6055138
Patent Number:	6094803

PATENT

Property Type	Number
Patent Number:	6118629
Patent Number:	6125015
Patent Number:	6130779
Patent Number:	6130863
Patent Number:	6134089
Patent Number:	6137656
Patent Number:	6137662
Patent Number:	6144528
Patent Number:	6151196
Patent Number:	6160684
Patent Number:	6175476
Patent Number:	6178066
Patent Number:	6178070
Patent Number:	6181525
Patent Number:	6185051
Patent Number:	6185077
Patent Number:	6185081
Patent Number:	6193584
Patent Number:	6195229
Patent Number:	6198608
Patent Number:	6198609
Patent Number:	6201673
Patent Number:	6212153
Patent Number:	6215625
Patent Number:	6222707
Patent Number:	6229672
Patent Number:	6229782
Patent Number:	6230959
Patent Number:	6233116
Patent Number:	6236543
Patent Number:	6237215
Patent Number:	6249404
Patent Number:	6275354
Patent Number:	6282056
Patent Number:	6296955
Patent Number:	6304414
Patent Number:	6310746
Patent Number:	6310750

Property Type	Number
Patent Number:	6317290
Patent Number:	6317297
Patent Number:	6330136
Patent Number:	6330137
Patent Number:	6333830
Patent Number:	6339518
Patent Number:	6349014
Patent Number:	6351355
Patent Number:	6353318
Patent Number:	6353511
Patent Number:	6356412
Patent Number:	6369983
Patent Number:	6376964
Patent Number:	6377535
Patent Number:	6378195
Patent Number:	6381105
Patent Number:	6396660
Patent Number:	6404706
Patent Number:	6417998
Patent Number:	6417999
Patent Number:	6418000
Patent Number:	6418048
Patent Number:	6421211
Patent Number:	6421212
Patent Number:	6424505
Patent Number:	6424507
Patent Number:	6433965
Patent Number:	6433970
Patent Number:	6437945
Patent Number:	6445542
Patent Number:	6445554
Patent Number:	6447935
Patent Number:	6466401
Patent Number:	6466402
Patent Number:	6466404
Patent Number:	6468436
Patent Number:	6469877
Patent Number:	6479096

Property Type	Number
Patent Number:	6483662
Patent Number:	6487040
Patent Number:	6487056
Patent Number:	6490125
Patent Number:	6496330
Patent Number:	6496334
Patent Number:	6512659
Patent Number:	6512661
Patent Number:	6512690
Patent Number:	6515573
Patent Number:	6515791
Patent Number:	6538850
Patent Number:	6552928
Patent Number:	6577470
Patent Number:	6583953
Patent Number:	6597548
Patent Number:	6639291
Patent Number:	6646832
Patent Number:	6657816
Patent Number:	6661625
Patent Number:	6680863
Patent Number:	6687098
Patent Number:	6687178
Patent Number:	6697294
Patent Number:	6700759
Patent Number:	6704158
Patent Number:	6704173
Patent Number:	6707083
Patent Number:	6717773
Patent Number:	6721138
Patent Number:	6721142
Patent Number:	6721149
Patent Number:	6721203
Patent Number:	6724569
Patent Number:	6724572
Patent Number:	6729015
Patent Number:	6735850
Patent Number:	6737281

Property Type	Number
Patent Number:	6744608
Patent Number:	6747301
Patent Number:	6751055
Patent Number:	6754049
Patent Number:	6756071
Patent Number:	6757140
Patent Number:	6760196
Patent Number:	6762910
Patent Number:	6765756
Patent Number:	6771468
Patent Number:	6775902
Patent Number:	6778358
Patent Number:	6781927
Patent Number:	6785955
Patent Number:	6791793
Patent Number:	6791807
Patent Number:	6796018
Patent Number:	6798616
Patent Number:	6798625
Patent Number:	6801408
Patent Number:	6801411
Patent Number:	6803615
Patent Number:	6806035
Patent Number:	6807030
Patent Number:	6807332
Patent Number:	6809899
Patent Number:	6816345
Patent Number:	6829160
Patent Number:	6829819
Patent Number:	6856489
Patent Number:	6859343
Patent Number:	6859997
Patent Number:	6861937
Patent Number:	6870712
Patent Number:	6873494
Patent Number:	6873496
Patent Number:	6873547
Patent Number:	6879464

Property Type	Number
Patent Number:	6888184
Patent Number:	6888704
Patent Number:	6894871
Patent Number:	6894877
Patent Number:	6906894
Patent Number:	6909578
Patent Number:	6912106
Patent Number:	6934113
Patent Number:	6934129
Patent Number:	6940688
Patent Number:	6942824
Patent Number:	6943993
Patent Number:	6944938
Patent Number:	6947258
Patent Number:	6950266
Patent Number:	6954332
Patent Number:	6956718
Patent Number:	6958885
Patent Number:	6961221
Patent Number:	6969989
Patent Number:	6975486
Patent Number:	6987643
Patent Number:	6989962
Patent Number:	6989972
Patent Number:	7006327
Patent Number:	7007372
Patent Number:	7023658
Patent Number:	7026063
Patent Number:	7027242
Patent Number:	7027268
Patent Number:	7027274
Patent Number:	7035046
Patent Number:	7041985
Patent Number:	7046490
Patent Number:	7054113
Patent Number:	7057857
Patent Number:	7059868
Patent Number:	7092195

Property Type	Number
Patent Number:	7111382
Patent Number:	7113366
Patent Number:	7116517
Patent Number:	7124654
Patent Number:	7126788
Patent Number:	7126790
Patent Number:	7131346
Patent Number:	7133253
Patent Number:	7134185
Patent Number:	7170725
Patent Number:	7174622
Patent Number:	7177117
Patent Number:	7193815
Patent Number:	7196880
Patent Number:	7199974
Patent Number:	7199975
Patent Number:	7211339
Patent Number:	7212384
Patent Number:	7238292
Patent Number:	7239478
Patent Number:	7248431
Patent Number:	7248433
Patent Number:	7248449
Patent Number:	7280325
Patent Number:	7337530
Patent Number:	7342752
Patent Number:	7349170
Patent Number:	7349179
Patent Number:	7354664
Patent Number:	7363697
Patent Number:	7371152
Patent Number:	7372665
Patent Number:	7375926
Patent Number:	7379269
Patent Number:	7386933
Patent Number:	7389577
Patent Number:	7417832
Patent Number:	7419891

Property Type	Number
Patent Number:	7428124
Patent Number:	7430098
Patent Number:	7436620
Patent Number:	7436631
Patent Number:	7436638
Patent Number:	7440220
Patent Number:	7443632
Patent Number:	7444740
Patent Number:	7474508
Patent Number:	7477486
Patent Number:	7493688
Patent Number:	7508627
Patent Number:	7522377
Patent Number:	7522379
Patent Number:	7522382
Patent Number:	7542246
Patent Number:	7551406
Patent Number:	7554767
Patent Number:	7583466
Patent Number:	7593190
Patent Number:	7595967
Patent Number:	7616405
Patent Number:	7639457
Patent Number:	7660080
Patent Number:	7672080
Patent Number:	7672086
Patent Number:	7684160
Patent Number:	7688546
Patent Number:	7691434
Patent Number:	7695761
Patent Number:	7719795
Patent Number:	7726009
Patent Number:	7729086
Patent Number:	7729087
Patent Number:	7736823
Patent Number:	7755861
Patent Number:	7785666
Patent Number:	7796356

Property Type	Number
Patent Number:	7800858
Patent Number:	7819979
Patent Number:	7829264
Patent Number:	7846643
Patent Number:	7855854
Patent Number:	7869160
Patent Number:	7872824
Patent Number:	7872833
Patent Number:	7910267
Patent Number:	7911735
Patent Number:	7911737
Patent Number:	7916426
Patent Number:	7918013
Patent Number:	7968219
Patent Number:	7982989
Patent Number:	8008912
Patent Number:	8012804
Patent Number:	8015692
Patent Number:	8018677
Patent Number:	8018678
Patent Number:	8072705
Patent Number:	8074345
Patent Number:	8077418
Patent Number:	8077434
Patent Number:	8077435
Patent Number:	8077557
Patent Number:	8079135
Patent Number:	8081400
Patent Number:	8081403
Patent Number:	8087973
Patent Number:	8089730
Patent Number:	8091210
Patent Number:	8097846
Patent Number:	8104166
Patent Number:	8116043
Patent Number:	8116171
Patent Number:	8125856
Patent Number:	8134794

Property Type	Number
Patent Number:	8136224
Patent Number:	8136225
Patent Number:	8136805
Patent Number:	8139301
Patent Number:	8141235
Patent Number:	8146236
Patent Number:	8149536
Patent Number:	8151441
Patent Number:	8163185
Patent Number:	8164760
Patent Number:	8164855
Patent Number:	8164858
Patent Number:	8164864
Patent Number:	8165709
Patent Number:	8166631
Patent Number:	8166632
Patent Number:	8169473
Patent Number:	8171618
Patent Number:	8179636
Patent Number:	8191237
Patent Number:	8194365
Patent Number:	8194366
Patent Number:	8196285
Patent Number:	8199437
Patent Number:	8200054
Patent Number:	8203800
Patent Number:	8208350
Patent Number:	8220140
Patent Number:	8222599
Patent Number:	8225488
Patent Number:	8227023
Patent Number:	8228633
Patent Number:	8231796
Patent Number:	8233248
Patent Number:	8240545
Patent Number:	8248896
Patent Number:	8254060
Patent Number:	8256272

Property Type	Number
Patent Number:	8257597
Patent Number:	8259410
Patent Number:	8259539
Patent Number:	8262918
Patent Number:	8262919
Patent Number:	8264797
Patent Number:	8264798
Patent Number:	8270126
Patent Number:	8276258
Patent Number:	8277669
Patent Number:	8279719
Patent Number:	8284517
Patent Number:	8288204
Patent Number:	8289821
Patent Number:	8291743
Patent Number:	8307539
Patent Number:	8307540
Patent Number:	8308921
Patent Number:	8310785
Patent Number:	8310901
Patent Number:	8315019
Patent Number:	8316527
Patent Number:	8320076
Patent Number:	8320077
Patent Number:	8320219
Patent Number:	8320220
Patent Number:	8320722
Patent Number:	8322022
Patent Number:	8322023
Patent Number:	8325569
Patent Number:	8333008
Patent Number:	8334093
Patent Number:	8336194
Patent Number:	8339738
Patent Number:	8339742
Patent Number:	8341826
Patent Number:	8343319
Patent Number:	8343363

Property Type	Number
Patent Number:	8343364
Patent Number:	8345519
Patent Number:	8349195
Patent Number:	8351307
Patent Number:	8357244
Patent Number:	8373945
Patent Number:	8375564
Patent Number:	8375565
Patent Number:	8381391
Patent Number:	8385158
Patent Number:	8394280
Patent Number:	8400731
Patent Number:	8404128
Patent Number:	8404129
Patent Number:	8405930
Patent Number:	8409453
Patent Number:	8413317
Patent Number:	8416540
Patent Number:	8418353
Patent Number:	8419953
Patent Number:	8419954
Patent Number:	8422176
Patent Number:	8422342
Patent Number:	8422841
Patent Number:	8424192
Patent Number:	8441756
Patent Number:	8441896
Patent Number:	8443510
Patent Number:	8444866
Patent Number:	8449948
Patent Number:	8451556
Patent Number:	8451563
Patent Number:	8454846
Patent Number:	8455119
Patent Number:	8456643
Patent Number:	8456961
Patent Number:	8456963
Patent Number:	8456964

Property Type	Number
Patent Number:	8456966
Patent Number:	8456967
Patent Number:	8458892
Patent Number:	8462462
Patent Number:	8462592
Patent Number:	8468682
Patent Number:	8472288
Patent Number:	8480911
Patent Number:	8485579
Patent Number:	8486285
Patent Number:	8486286
Patent Number:	8488272
Patent Number:	8488279
Patent Number:	8488281
Patent Number:	8491801
Patent Number:	8491802
Patent Number:	8493693
Patent Number:	8493695
Patent Number:	8495813
Patent Number:	8498084
Patent Number:	8506828
Patent Number:	8514506
Patent Number:	8514517
Patent Number:	8514522
Patent Number:	8518279
Patent Number:	8518748
Patent Number:	8518832
Patent Number:	8520336
Patent Number:	8520337
Patent Number:	8524068
Patent Number:	8526275
Patent Number:	8531801
Patent Number:	8532450
Patent Number:	8533936
Patent Number:	8533937
Patent Number:	8537494
Patent Number:	8537495
Patent Number:	8537502

Property Type	Number
Patent Number:	8545164
Patent Number:	8545999
Patent Number:	8547659
Patent Number:	8547667
Patent Number:	8547730
Patent Number:	8553365
Patent Number:	8555486
Patent Number:	8559141
Patent Number:	8563146
Patent Number:	8565049
Patent Number:	8570844
Patent Number:	8576517
Patent Number:	8578594
Patent Number:	8582238
Patent Number:	8582241
Patent Number:	8582253
Patent Number:	8587901
Patent Number:	8588039
Patent Number:	8593914
Patent Number:	8597528
Patent Number:	8599520
Patent Number:	8599657
Patent Number:	8603593
Patent Number:	8607438
Patent Number:	8607439
Patent Number:	8611035
Patent Number:	8611050
Patent Number:	8611054
Patent Number:	8611055
Patent Number:	8614864
Patent Number:	8619512
Patent Number:	8623197
Patent Number:	8625224
Patent Number:	8625233
Patent Number:	8625941
Patent Number:	8628672
Patent Number:	8630068
Patent Number:	8634280

Property Type	Number
Patent Number:	8638529
Patent Number:	8643980
Patent Number:	8649123
Patent Number:	8653824
Patent Number:	8665561
Patent Number:	8665677
Patent Number:	8665690
Patent Number:	8670211
Patent Number:	8670213
Patent Number:	8670214
Patent Number:	8670294
Patent Number:	8670295
Patent Number:	8675318
Patent Number:	8675455
Patent Number:	8681594
Patent Number:	8689430
Patent Number:	8693141
Patent Number:	8703397
Patent Number:	8705205
Patent Number:	8711518
Patent Number:	8711528
Patent Number:	8717695
Patent Number:	8717709
Patent Number:	8720044
Patent Number:	8721902
Patent Number:	8724259
Patent Number:	8749790
Patent Number:	8749920
Patent Number:	8753903
Patent Number:	8755152
Patent Number:	8756795
Patent Number:	8758083
Patent Number:	8760807
Patent Number:	8760818
Patent Number:	8760819
Patent Number:	8760822
Patent Number:	8760823
Patent Number:	8763235

Property Type	Number
Patent Number:	8773664
Patent Number:	8773956
Patent Number:	8780498
Patent Number:	8780505
Patent Number:	8786983
Patent Number:	8790524
Patent Number:	8790527
Patent Number:	8792208
Patent Number:	8792212
Patent Number:	8792312
Patent Number:	8793866
Patent Number:	8797680
Patent Number:	8797684
Patent Number:	8797686
Patent Number:	8797692
Patent Number:	8811129
Patent Number:	8813324
Patent Number:	8830628
Patent Number:	8834728
Patent Number:	8836949
Patent Number:	8837081
Patent Number:	8844120
Patent Number:	8846534
Patent Number:	8860216
Patent Number:	8860407
Patent Number:	8861124
Patent Number:	8861133
Patent Number:	8861134
Patent Number:	8861317
Patent Number:	8867174
Patent Number:	8871102
Patent Number:	8877358
Patent Number:	8879207
Patent Number:	8883017
Patent Number:	8891207
Patent Number:	8893376
Patent Number:	8897102
Patent Number:	8897104

Property Type	Number
Patent Number:	8908333
Patent Number:	8914969
Patent Number:	8917480
Patent Number:	8923102
Patent Number:	8947985
Patent Number:	8953422
Patent Number:	8958168
Patent Number:	8958272
Patent Number:	8964333
Patent Number:	8970988
Patent Number:	8971160
Patent Number:	8976635
Patent Number:	8980109
Patent Number:	8982508
Patent Number:	8984740
Patent Number:	8988809
Patent Number:	8988812
Patent Number:	8988825
Patent Number:	8988830
Patent Number:	8991251
Patent Number:	8993217
Patent Number:	8995087
Patent Number:	8997832
Patent Number:	9001467
Patent Number:	9001628
Patent Number:	9001629
Patent Number:	9003640
Patent Number:	9007719
Patent Number:	9007725
Patent Number:	9007728
Patent Number:	9007879
Patent Number:	9013836
Patent Number:	9018100
Patent Number:	9030784
Patent Number:	9034564
Patent Number:	9042048
Patent Number:	9042051
Patent Number:	9042052

Property Type	Number
Patent Number:	9042057
Patent Number:	9047902
Patent Number:	9052269
Patent Number:	9053715
Patent Number:	9053719
Patent Number:	9053735
Patent Number:	9064507
Patent Number:	9064527
Patent Number:	9064534
Patent Number:	9065043
Patent Number:	9070381
Patent Number:	9076472
Patent Number:	9082423
Patent Number:	9082426
Patent Number:	9087527
Patent Number:	9087534
Patent Number:	9087537
Patent Number:	9087542
Patent Number:	9093639
Patent Number:	9099118
Patent Number:	9099145
Patent Number:	9104107
Patent Number:	9110465
Patent Number:	9111550
Patent Number:	9111558
Patent Number:	9111564
Patent Number:	9117464
Patent Number:	9123358
Patent Number:	9123359
Patent Number:	9123362
Patent Number:	9123374
Patent Number:	9135930
Patent Number:	9135937
Patent Number:	9142233
Patent Number:	9147404
Patent Number:	9147408
Patent Number:	9153255
Patent Number:	9153260

Property Type	Number
Patent Number:	9159345
Patent Number:	9159346
Patent Number:	9165573
Patent Number:	9165579
Patent Number:	9171562
Patent Number:	9183854
Patent Number:	9183859
Patent Number:	9190079
Patent Number:	9190080
Patent Number:	9190085
Patent Number:	9190089
Patent Number:	9190090
Patent Number:	9194692
Patent Number:	9196270
Patent Number:	9196283
Patent Number:	9202478
Patent Number:	9202480
Patent Number:	9202493
Patent Number:	9212051
Patent Number:	9213322
Patent Number:	9214165
Patent Number:	9214166
Patent Number:	9214168
Patent Number:	9214169
Patent Number:	9214172
Patent Number:	9230565
Patent Number:	9236560
Patent Number:	9245543
Patent Number:	9245545
Patent Number:	9245562
Patent Number:	9251813
Application Number:	12146370
Application Number:	12466353
Application Number:	12535645
Application Number:	12621459
Application Number:	13044712
Application Number:	13332194
Application Number:	13361547

Property Type	Number
Application Number:	13423009
Application Number:	13480278
Application Number:	13490214
Application Number:	13535828
Application Number:	13607624
Application Number:	13631802
Application Number:	13631808
Application Number:	13657479
Application Number:	13664271
Application Number:	13691591
Application Number:	13756379
Application Number:	13761450
Application Number:	13769951
Application Number:	13797266
Application Number:	13797268
Application Number:	13799122
Application Number:	13898160
Application Number:	13909774
Application Number:	13923991
Application Number:	13924521
Application Number:	13927007
Application Number:	13928799
Application Number:	13929633
Application Number:	13929705
Application Number:	13930282
Application Number:	13954766
Application Number:	13963328
Application Number:	13970445
Application Number:	13972002
Application Number:	14046771
Application Number:	14046790
Application Number:	14051359
Application Number:	14052996
Application Number:	14054762
Application Number:	14054924
Application Number:	14055851
Application Number:	14096381
Application Number:	14135250

Property Type	Number
Application Number:	14168995
Application Number:	14187726
Application Number:	14216458
Application Number:	14229297
Application Number:	14276111
Application Number:	14276254
Application Number:	14280342
Application Number:	14287586
Application Number:	14293970
Application Number:	14297928
Application Number:	14307067
Application Number:	14307174
Application Number:	14308366
Application Number:	14308421
Application Number:	14310294
Application Number:	14311233
Application Number:	14312317
Application Number:	14313550
Application Number:	14313842
Application Number:	14335759
Application Number:	14336253
Application Number:	14469956
Application Number:	14481893
Application Number:	14492228
Application Number:	14498664
Application Number:	14526207
Application Number:	14540892
Application Number:	14556411
Application Number:	14557149
Application Number:	14557941
Application Number:	14560268
Application Number:	14560731
Application Number:	14571665
Application Number:	14574177
Application Number:	14574188
Application Number:	14574250
Application Number:	14575506
Application Number:	14577961

Property Type	Number
Application Number:	14578227
Application Number:	14578449
Application Number:	14578450
Application Number:	14579785
Application Number:	14582080
Application Number:	14582902
Application Number:	14584965
Application Number:	14609580
Application Number:	14621712
Application Number:	14635953
Application Number:	14657420
Application Number:	14664425
Application Number:	14667433
Application Number:	14667506
Application Number:	14670340
Application Number:	14671676
Application Number:	14671759
Application Number:	14671816
Application Number:	14674509
Application Number:	14674899
Application Number:	14678816
Application Number:	14728696
Application Number:	14729403
Application Number:	14736635
Application Number:	14740027
Application Number:	14747298
Application Number:	14748607
Application Number:	14749260
Application Number:	14750239
Application Number:	14752482
Application Number:	14752598
Application Number:	14752659
Application Number:	14753630
Application Number:	14754490
Application Number:	14833977
Application Number:	14844312
Application Number:	14847634
Application Number:	14853531

Property Type	Number
Application Number:	14853664
Application Number:	14862895
Application Number:	14863309
Application Number:	14864665
Application Number:	14864716
Application Number:	14869606
Application Number:	14871553
Application Number:	14871763
Application Number:	14871844
Application Number:	14886870
Application Number:	14887035
Application Number:	14929754
Application Number:	14934453
Application Number:	14936967
Application Number:	14937971
Application Number:	14939934
Application Number:	14943211
Application Number:	14943300
Application Number:	14943391
Application Number:	14949155
Application Number:	14951411
Application Number:	14953982
Application Number:	14954293
Application Number:	14955375
Application Number:	14955904
Application Number:	14956168
Application Number:	14981830
Application Number:	14993127
Application Number:	14994361
Application Number:	62152753

CORRESPONDENCE DATA

Fax Number: (202)408-3141

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: 202-408-3121 X62348

Email: jean.paterson@cscglobal.com

Correspondent Name: CSC

Address Line 1: 1090 VERMONT AVENUE NW, SUITE 430

Address Line 4: WASHINGTON, D.C. 20005

NAME OF SUBMITTER:	JEAN PATERSON
SIGNATURE:	/jep/
DATE SIGNED:	02/08/2022

Total Attachments: 45

source=2-7-2022 JPM-Western Digital Freemont 4-PT#page1.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page2.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page3.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page4.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page5.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page6.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page7.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page8.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page9.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page10.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page11.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page12.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page13.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page14.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page15.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page16.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page17.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page18.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page19.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page20.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page21.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page22.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page23.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page24.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page25.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page26.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page27.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page28.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page29.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page30.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page31.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page32.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page33.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page34.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page35.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page36.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page37.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page38.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page39.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page40.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page41.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page42.tif
source=2-7-2022 JPM-Western Digital Freemont 4-PT#page43.tif

source=2-7-2022 JPM-Western Digital Freemont 4-PT#page44.tif

source=2-7-2022 JPM-Western Digital Freemont 4-PT#page45.tif

RELEASE OF SECURITY INTEREST IN PATENTS

This RELEASE OF SECURITY INTEREST IN PATENTS (this “Release”), dated as of February 3, 2022 (the “Effective Date”), is made by JPMorgan Chase Bank, N.A., in its capacity as Agent (the “Agent”), in favor of the grantor party identified on the signature page hereto (the “Grantor”).

WHEREAS, pursuant to that certain Security Agreement, dated as of May 12, 2016, by and among the Agent, the Grantor and certain other parties thereto (as amended, amended and restated, or otherwise modified from time to time, the “Security Agreement”), the Grantor granted to the Agent, in its capacity as Agent, a lien on and security interest in and to certain collateral;

WHEREAS, pursuant to the Security Agreement, the Grantor executed and delivered a Patent Collateral Agreement, dated as of May 12, 2016 (the “Patent Collateral Agreement”), for recordal with the United States Patent and Trademark Office;

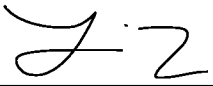
WHEREAS, the Patent Collateral Agreement was recorded with the United States Patent and Trademark Office on May 16, 2016 at Reel/Frame 038710/0845;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Agent hereby agrees as follows:

1. Defined Terms. All capitalized terms used, but not otherwise defined herein, shall have the respective meanings ascribed in or otherwise referenced in the Security Agreement or the Patent Collateral Agreement, as applicable.
2. Release. The Agent, without representation or warranty of any kind, hereby absolutely, unconditionally and irrevocably releases, discharges, terminates and cancels all of its lien on and security interest in and to the Patent Collateral, including the patents and patent applications set forth Schedule A attached hereto, arising under the Security Agreement and/or the Patent Collateral Agreement.
3. Termination. The Agent, without representation or warranty of any kind, terminates and cancels the Patent Collateral Agreement.
4. Further Assurances. The Agent agrees to take all further actions, and provide to the Grantor and its successors, assigns or other legal representatives, all such cooperation and assistance (including, without limitation, the execution and delivery of any and all documents or other instruments), reasonably requested by the Grantor, at the Grantor’s sole cost and expense, to more fully and effectively effectuate the purposes of this Release.
5. Governing Law. This Release shall be governed exclusively under the laws of New York State, without regard to conflicts of law or choice of law principles.
6. Successor and Assigns. This Release shall be binding on and shall inure to the benefit of the parties hereto and their respective successors and assigns.

IN WITNESS WHEREOF, the Agent has caused this Release to be executed by its duly authorized representative as of the Effective Date:

**JPMORGAN CHASE BANK, N.A., acting in its
capacity as agent for the Lenders**

By: 
Name: Timothy Lee
Title: Executive Director

GRANTORS:

Western Digital (Fremont), LLC
Western Digital Technologies, Inc.

SCHEDULE A

U.S. PATENTS AND APPLICATIONS

Legal Title Owner: Western Digital Technologies, Inc.

No.	Title	Patent /Application Number
1.	Thin Film Heads With Insulated Laminations For Improved High Frequency Performance	5750275
2.	Method For Adjusting The Gram Load Of Head Gimbal Assemblies	5943761
3.	Magnetoresistive Transducer With Four-lead Contact	5959811
4.	Protective Carrier For Magnetic Head Assembly	5984104
5.	READ/WRITE HEAD AND METHOD FOR MAGNETIC READING AND MAGNETO-OPTICAL WRITING ON A DATA STORAGE MEDIUM	5986978
6.	HIGH NA CATADIOPTRIC FOCUSING DEVICE HAVING FLAT DIFFRACTIVE SURFACES	5986995
7.	Thin Film MR Head And Method Of Making Wherein Pole Trim Takes Place At The Wafer Level	5996213
8.	ADAPTIVE LOADING/UNLOADING SUSPENSION	6002552
9.	READ/WRITE HEAD WITH SHIFTED WAVEGUIDE	6016290
10.	Disk Drive Pivot Bearing And Actuator Arm Assembly	6018441
11.	Interconnect Adapter And Head Suspension Assembly	6025988
12.	Shorting Bar And Test Clip For Protecting Magnetic Heads From Damage Caused By Electrostatic Discharge During Manufacture	6034851
13.	Inductive Write Head Formed With Flat Yoke And Merged With magnetoresistive Read Transducer	6043959
14.	Thin Film Pedestal Pole Tips Write Head Having Narrower Lower Pedestal Pole Tip	6055138
15.	Wafer Processing Techniques for Near Field Magneto-Optical Head	6094803
16.	Magnetic Head With Aligned Pole Tips And Pole Layers Formed Of High Magnetic Moment Material	6118629
17.	HEAD GIMBAL ASSEMBLY WITH LOW STIFFNESS FLEX CIRCUIT AND ESD PROTECTION	6125015
18.	Near Field Magneto-Optical Head Made Using Wafer Processing Techniques	6130779
19.	Slider and Electro-Magnetic Coil Assembly	6130863
20.	Current Perpendicular To Plane Magnetoresistive Device With Low Resistance Lead	6134089
21.	Air Bearing Slider	6137656
22.	Magnetoresistive Sensor With Pinned SAL	6137662
23.	AIR BEARING SLIDER WITH REDUCED STICTION	6144528

No.	Title	Patent /Application Number
24.	Magnetic Head Suspension Assembly Including An Intermediate Flexible Member That Supports An Air Bearing Slider With A Magnetic Transducer For Testing	6151196
25.	Head Suspension Having Tabs And Force Isolation Welds For Gram Load Reduction During Swaging	6160684
26.	Synthetic Spin-Valve Device Having High Resistivity Anti Parallel Coupling Layer	6175476
27.	Thin Film Device Having A Small Element With Well Defined Corners And Method Of Fabrication	6178066
28.	Magnetic Write Head And Method For Making Same	6178070
29.	READ/WRITE HEAD WITH A LIMITED RANGE OF MOTION RELATIVE TO A LOAD BEAM	6181525
30.	High Numerical Aperture Optical Focusing Device for Use in Data Storage Systems	6185051
31.	SPIN VALVE SENSOR WITH ANTIFERROMAGNETIC AND MAGNETOSTATICALLY COUPLED PINNIN STRUCTURE	6185077
32.	BIAS LAYERS WHICH ARE FORMED ON UNDERLAYERS PROMOTING IN-PLANE ALIGNMENT OF THE C-AXIS OF COBALT USED IN MAGNETORESISTIVE TRANSDUCERS	6185081
33.	Apparatus and Method of Device Stripe Height Control	6193584
34.	Thin Film MR Head And Method Of making Wherein Pole Trim Takes Place At The Wafer Level	6195229
35.	MR SENSOR WITH BLUNT CONTIGOUS JUNCTION AND SLOW-MILLING-RATE READ GAP	6198608
36.	CPP Magnetoresistive Device With Reduced Edge Effect And Method For Making Same	6198609
37.	SYSTEM FOR BIASING A SYNTHETIC FREE LAYER IN A MAGNETORESISTANCE SENSOR	6201673
38.	High NA Solid Catadioptric Focusing Device Having a Flat Kinoform Phase Profile	6212153
39.	Apparatus And Method For Adhesive Bridge Suspension Attachment	6215625
40.	BOTTOM OR DUAL SPIN VALVE HAVING A SEED LAYER THAT RESULTS IN AN IMPROVED ANTIFERROMAGNETIC LAYER	6222707
41.	High Gram Load Air Bearing Geometry For A Tripad Slider	6229672
42.	High Numerical Aperture Optical Focusing Device for Use in Data Storage Systems	6229782
43.	Gram Load Change Reduction Isolation Load Beam/Suspension	6230959
44.	Thin Film Write Head With Improved Laminated Flux Carrying Structure and Method Of Fabrication	6233116
45.	DURABLE LANDING PADS FOR AN AIR-BEARING SLIDER	6236543
46.	Test Fixture For Positioning And Testing A Magnetic Head	6237215

No.	Title	Patent /Application Number
47.	HEAD GIMBAL ASSEMBLY WITH A FLEXIBLE PRINTED CIRCUIT HAVING A SERPENTINE SUBSTRATE	6249404
48.	Magnetic Head With A Toroidal Coil Encompassing Only One Yoke Layer	6275354
49.	Tapered Stitch Pole Writer for High Density Magnetic Recording	6282056
50.	High moment and high permeability transducer structures and formation	6296955
51.	Thin Film Magnetic Write Head Having An Ultra-Low Stack Height and Method Of Manufacturing Same	6304414
52.	Piezoelectric Vibration Damping For Disk Drives	6310746
53.	Disk Drive Actuator Arm With Microactuated Read/Write Head Positioning	6310750
54.	Advanced Pole Trim Writer with High Moment P1 and Low APEX Angle	6317290
55.	CURRENT PINNED DUAL SPIN VALVE WITH SYNTHETIC PINNED LAYERS	6317297
56.	Magnetic Read Sensor With SDT Tri-Layer And Method For Making Same	6330136
57.	MAGNETORESISTIVE READ SENSOR INCLUDING A CARBON BARRIER LAYER AND METHOD FOR MAKING SAME	6330137
58.	Low Resistance Coil Structure for High Speed Writer	6333830
59.	Air bearing slider with shaped taper	6339518
60.	Magnetic Read/Write Device With Insulated Coil Layer Recessed Into Pole	6349014
61.	Spin Valve Device With Improved Thermal Stability	6351355
62.	Hard Biased Current Perpendicular To The Plane Sensor And Method Of Fabrication Thereof	6353318
63.	Thin Film Write Head For Improved High Speed and High Density Recording	6353511
64.	Air Bearing Facilitating Load/Unload Of A Magnetic Read/Write Head	6356412
65.	WRITE HEAD HAVING A DRY-ETCHABLE ANTIREFLECTIVE INTERMEDIATE LAYER	6369983
66.	Collocated Rotating Flexure Microactuator For Dual-Stage Servo In Disk Drives	6376964
67.	High Numerical Aperture Optical Focusing Device Having a Conical Incident Facet and a Parabolic Reflector for Use in Data Storage Systems	6377535
68.	A FICTURE FOR ASSEMBLING AND TESTING A READ/WRITE HEAD WITH A GIMBAL BALL ASSEMBLY	6378195
69.	Hybrid Dual Spin Valve Sensor and Method For Making Same	6381105

No.	Title	Patent /Application Number
70.	Coil Structure with High Thermal Conductor Buffer in Writer of Merged Head	6396660
71.	Laser Mounting for a Thermally Assisted GMR Head	6404706
72.	Method of Building an Ultra-Small Advanced Writer	6417998
73.	Magnetoresistive Head Stabilized Structure and Method of Fabrication Thereof	6417999
74.	DUAL SYNTHETIC SPIN VALVE SENSOR USING CURRENT PINNING	6418000
75.	SPIN-DEPENDENT TUNNELING SENSORS FOR MAGNETIC RAM (MRAM)	6418048
76.	Disk Drive Actuator Arm With Microactuated Read/Write Head Positioning	6421211
77.	Thin Film Read Head Structure With Improved Bias Magnet-to-Magnetoresistive Element Interface and Method Of Fabrication	6421212
78.	METHOD AND SYSTEM FOR PROVIDING ELECTROSTATIC DISCHARGE PROTECTION FOR FLEX-ON SUSPENSION ASSEMBLY, OR CALBE-ON SUSPENSION	6424505
79.	SPIN VALVE MAGNETORESISTIVE SENSOR FOR HIGH TEMPERATURE ENVIRONMENT USING IRIIDIUM MANGANESE	6424507
80.	LAMINATED CARBON-CONTAINING OVERCOATS FOR INFORMATION STORAGE SYSTEM TRANSDUCERS	6433965
81.	Structure and Method for Redeposition Free Thin Film CPP Read Sensor Fabrication	6433970
82.	Airflow-Assisted Ramp Loading And Unloading In Hard Disk Drives	6437945
83.	Triple Step Technique For Air-Bearing Fabrication	6445542
84.	METHOD AND SYSTEM FOR PROVIDING EDGE-JUNCTION TMR FOR HIGH AREAL DENSITY MAGNETIC RECORDING	6445554
85.	METHOD AND SYSTEM FOR REDUCING ASSYMETRY IN A SPIN VALVE HAVING A SYNTHETIC PINNED LAYER	6447935
86.	Thin Film Write Head With Interlaced Coil Winding And Method of Fabrication	6466401
87.	Compact MR Write Structure	6466402
88.	Magnetic Read/Write Device With Insulated Coil Layers Recessed Into Pole	6466404
89.	Method And System For Providing A Magnetoresistive Head Having Higher Efficiency	6468436
90.	Spin Valve Device With Improved Exchange Layer Defined Track Width and Method of Fabrication	6469877
91.	Method for Manufacturing a GMR Spin Valve Having A Smooth Interface Between Magnetic And Non-Magnetic Layers	6479096

No.	Title	Patent /Application Number
92.	High Density Multi-Coil Magnetic Write Head Having A Reduced Yoke Length And Short Flux Rise Time	6483662
93.	Thin film head with self-aligned pole tips	6487040
94.	Thin film read head structure with improved bias magnet-to-magnetoresistive element interface and method of fabrication	6487056
95.	Thin Film Write Head With Improved Yoke to Pole Stitch	6490125
96.	Magnetic Write Head Having A Split Coil Structure	6496330
97.	Data Storage Retrieval Apparatus With Thin Film Read Head Having Planarized Extra Gap an Shield Layers And Method Of Fabrication Thereof	6496334
98.	Disk Drive Actuator Arm with Microactuated Read/Write Head Positioning	6512659
99.	VERTICAL GIANT MAGNETORESISTANCE SENSOR UTILIZING AN INSULATING BIAS LAYER	6512661
100.	HIGH SENSITIVITY COMMON-SOURCE AMPLIFIER MRAM CELL, MEMORY ARRAY AN READ-WRITE SCHEME	6512690
101.	METHOD AND SYSTEM FOR PROVIDING EDGE-JUNCTION TMR UTILIZING A HARD MAGNET PINNED LAYER	6515573
102.	ACTIVE REFLECTION AND ANTI-REFLECTION OPTICAL SWITCH	6515791
103.	Low Profile Head Gimbal Assembly With Shock Limiting And Load/Unload Capability and Method Of Manufacture Thereof	6538850
104.	Read/Write Control Circuit for Magnetic Tunnel Junction MRAM	6552928
105.	METHOD AND SYSTEM FOR PROVIDING A TAPE HEAD SUBASSEMBLY STRUCTURE HAVING AN INTEGRATED WEAR BAR AND OUTRIGGER RAIL	6577470
106.	SiC Overcoat & Method For Sliders	6583953
107.	Magnetoresistive Element and Magnetic Head	6597548
108.	SPIN DEPENDENT TUNNELING BARRIERS DOPED WITH MAGNETIC PARTICLES	6639291
109.	SLIDER FOR LOAD/UNLOAD OPERATION WITH HIGH SITFFNESS AND LOW UNLOAD FORCE	6646832
110.	THIN FILM INDUCTIVE READ/WRITE HEAD WITH A SLOPED POLE	6657816
111.	SPIN-DEPENDENT TUNNELING SENSOR WITH LOW RESISTANCE METAL OXIDE TUNNEL BARRIER	6661625
112.	MRAM MEMORY ARRAY HAVING MERGED WORD LINES	6680863
113.	Top Spin Valve With Improved Seed Layer	6687098
114.	Temperature Dependent Write Current Source For Magnetic Tunnel Junction MRAM	6687178

No.	Title	Patent /Application Number
115.	Designs of Reference Cells for Magnetic Tunnel Junction (MTJ) MRAM	6697294
116.	NARROW TRACK WIDTH MAGNETORESISTIVE SENSOR AND METHOD OF MAKING	6700759
117.	Shear Mode Multilayered Collocated Micro-Actuator For Dual-Stage Servo Controllers In Disk Drives	6704158
118.	METHOD AND SYSTM FOR PROVIDING ESD PROTECTION USING DIODES AND A GROUNDING STRIP IN A HEAD GIMBAL ASSEMBLY	6704173
119.	MAGNETIC TUNNELING JUNCTION WITH IMPROVED POWER CONSUMPTION	6707083
120.	Airflow-Assisted Ramp Loading And Unloading Of Sliders In Hard Disk Drives	6717773
121.	INDUCTIVE TRANSDUCER WITH STITCHED POLE TIP AND PEDESTAL DEFINING ZERO THROAT HEIGHT	6721138
122.	Non-Corrosive GMR Slider For Proximity Recording	6721142
123.	TUNNELING MAGNETORESISTANCE SPIN-VALVE READ SENSOR WITH LAlO3 SPACER	6721149
124.	Designs of Reference Cells for Magnetic Tunnel Junction (MTJ) MRAM	6721203
125.	Thin Film Writer With Multilayer Write Gap	6724569
126.	INDUCTIVE TRANSDUCER WITH RECESSED LEADING POLE LAYER	6724572
127.	Magnetic Head Device Manufacturing Method and Intermediate Product of Magnetic Head Device Manufacture	6729015
128.	Thin Film Read Head Structure With Improved Bias Magnet-to-Magnetoresistive Element Interface And Method Of Fabrication	6735850
129.	METHOD OF MAKING TRANSDUCER WITH INORGANIC NONFERROMAGNETIC APEX REGION	6737281
130.	METHOD AND SYSTEM FOR MAKING TMR JUNCTIONS	6744608
131.	SPIN DEPENDENT TUNNELING BARRIERS FORMED WITH A MAGNETIC ALLOY	6747301
132.	Inductive Transducer With Reduced Pole Tip Protrusion	6751055
133.	TRANSDUCERS FOR PERPENDICULAR RECORDING WITH INDUCTIVE CANCELLATION AT MR SENSOR	6754049
134.	METHOD FOR MANUFACTURING A GMR SPIN VALVE HAVING A SMOOTH INTERFACE BETWEEN MAGNETIC AND NON-MAGNETIC LAYERS	6756071
135.	ELECTROSTATIC MICROELECTROMECHANICAL (MEM) MICROACTUATOR FOR PRECISE READ/WRITE HEAD POSITIONING	6757140
136.	MICROACTUATOR WITH OFFSETTING HINGES AND METHOD FOR HIGH-RESOLUTION POSITIONING OF MAGNETIC READ/WRITE HEAD	6760196

No.	Title	Patent /Application Number
137.	Data Storage and Retrieval Apparatus With Thin Film Read Head Having Inset Extra Gap Insulation Layer And Method Of Fabrication	6762910
138.	Ultra-Short Yoke & Ultra-Low Stack Height Writer and Method of Fabrication	6765756
139.	SLIDER WITH HIGH PITCH-STIFFNESS AIR BEARING DESIGN	6771468
140.	METHOD OF MAKING A MAGNETIC HEAD WITH ALIGNED POLE TIPS	6775902
141.	MAGNETICALLY SOFT, HIGH SATURATION MAGNETIZATION LAMINATES OF IRON-COBALT-NITROGEN AND IRON-NICKEL	6778358
142.	Data storage system having an optical processing flying head	6781927
143.	METHOD FOR PROVIDING PEDESTAL-DEFINED ZERO THROAT WRITERS (as amended)	6785955
144.	PERPENDICULAR RECORDING WRITE HEAD HAVING A RECESSED MAGNETIC ADJUNCT POLE AND METHOD OF MAKING THE SAME	6791793
145.	Spin-Valve Magnetic Transducing Element and Magnetic Head Having Free Layer With Negative Magnetostriction	6791807
146.	METHOD OF FORMING A SLIDER/SUSPENSION ASSEMBLY	6796018
147.	Write Head Architecture For Improved Manufacturability	6798616
148.	Spin-Valve Magnetoresistance Sensor and Thin-Film Magnetic Head	6798625
149.	DATA STORAGE AND RETRIEVAL APPARATUS WITH THIN FILM READ HEAD HAVING A PLANAR SENSOR ELEMENT AND AN EXTRA GAP AND METHOD OF FABRICATION THEREOF	6801408
150.	Dual Stripe Spin Valve Sensor Without Antiferromagnetic Pinning Layer	6801411
151.	Magnetic Tunnel Junction MRAM With Improved Stability	6803615
152.	WAFER SERIALIZATION MANUFACTURING PROCESS FOR READ/WRITE HEADS USING PHOTOLITHOGRAPHY AND SELECTIVE REACTIVE ION ETCHING	6806035
153.	ENCLOSED PIEZOELECTRIC MICROACTUATORS COUPLED BETWEEN HEAD AND SUSPENSION	6807030
154.	Piezoelectric Actuated Optical Switch	6807332
155.	MAGNETIC HEADS FOR PERPENDICULAR RECORDING WITH TRAPEZOIDAL POLE TIPS	6809899
156.	MAGNETORESISTIVE SENSORS HAVING SUBMICRON TRACK WIDTHS AND METHOD OF MAKING	6816345
157.	MAGNETIC RAM CELL WITH AMPLIFICATION CIRCUITRY AND MRAM MEMORY ARRAY FORMED USING THE MRAM CELLS	6829160

No.	Title	Patent /Application Number
158.	METHOD OF FORMING A MAGNETORESISTIVE DEVICE	6829819
159.	Airflow-Assisted Ramp Loading And Unloading Of Sliders In Hard Disk Drives	6856489
160.	HYBRID DIFFUSER FOR MINIMIZING THERMAL POLE TIP PROTRUSION AND READER SENSOR TEMPERATURE	6859343
161.	Magnetic Write Element Having A Well Defined Coil Wall Structure And A Method Of Manufacturing the Same	6859997
162.	DOUBLE WINDING TWIN COIL FOR THIN-FILM HEAD WRITER	6861937
163.	Inductive Writer With Flat Top Pole & Pedestal Defined Zero Throat	6870712
164.	WRITE HEAD WITH HIGH MOMENT FILM LAYER HAVING TAPERED PORTION EXTENDING BEYOND WRITE GAP LAYER	6873494
165.	SIDE RAIL SLIDER HAVING IMPROVED FLY HEIGHT CONTROL	6873496
166.	HIGH CAPACITY MRAM MEMORY ARRAY ARCHITECTURE	6873547
167.	Air Bearing Having a Cavity Patch Surface Coplanar with a Leading Edge Pad Surface	6879464
168.	SHIELDED MAGNETIC RAM CELLS	6888184
169.	METHOD AND SYSTEM FOR PROVIDING HIGH SENSITIVITY GIANT MAGNETORESISTIVE SENSORS	6888704
170.	TECHNIQUE FOR REDUCING POLE TIP PROTRUSION IN A MAGNETIC WRITE HEAD AND GMR STRIPE TEMPERATURE IN AN ASSOCIATED READ HEAD STRUCTURE UTILIZING ONE OR MORE INTERNAL DIFFUSER REGIONS	6894871
171.	Compact MR Write Structure	6894877
172.	WRITE HEAD HAVING A RECESSED, MAGNETIC ADJUNCT POLE FORMED ATOP A MAIN POLE, AND METHOD OF MAKING THE SAME	6906894
173.	METHOD AND SYSTEM FOR REDUCING THERMAL POLE TIP PROTRUSION	6909578
174.	WRITER WITH A HOT SEED ZERO THROAT AND SUBSTANTIALLY FLAT TOP POLE	6912106
175.	METHOD AND SYSTEM FOR PROVIDING DYNAMIC ACTUATION OF A WRITE HEAD USING A STRAIN ELEMENT	6934113
176.	MAGNETORESISTIVE SENSOR WITH OVERLAPPING LEAD LAYERS INCLUDING ALPHA TANTALUM AND CONDUCTIVE LAYERS	6934129
177.	COIL INDUCTIVE WRITER HAVING A LOW INDUCTANCE AND SHORT YOKE LENGTH	6940688

No.	Title	Patent /Application Number
178.	UV CURABLE AND ELECTRICALLY CONDUCTIVE ADHESIVE FOR BONDING MAGNETIC DISK DRIVE COMPONENTS	6942824
179.	MAGNETIC RECORDING HEAD WITH A SIDE SHIELD STRUCTURE FOR CONTROLLING SIDE READING OF THIN FILM READ SENSOR	6943993
180.	METHOD OF FORMING A MAGNETORESISTIVE DEVICE	6944938
181.	UV CURABLE AND ELECTRICALLY CONDUCTIVE ADHESIVE FOR BONDING MAGNETIC DISK DRIVE COMPONENTS	6947258
182.	ACTIVE FLY HEIGHT CONTROL CROWN ACTUATOR	6950266
183.	Ultra-Short Yoke And Ultra-Low Stack Height Writer And Method Of Fabrication	6954332
184.	SANDWICH DIAMOND-LIKE CARBON OVERCOAT FOR USE IN SLIDER DESIGNS OF PROXIMITY RECORDING HEADS	6956718
185.	Insulation Layer Structure For Inductive Write Heads And Method Of Fabrication	6958885
186.	PIEZOELECTRIC MICROACTUATORS WITH SUBSTANTIALLY FIXED AXIS OF ROTATION AND MAGNIFIED STROKE	6961221
187.	METHOD FOR CHARACTERIZING A PERPENDICULAR RECORDING HEAD WRITING POLE	6969989
188.	THIN FILM WRITE HEAD HAVING A LAMINATED, FLAT TOP POLE WITH BOTTOM SHAPER AND METHOD OF FABRICATION	6975486
189.	POLE STRUCTURE TO RELIEVE ADJACENT TRACK WRITING	6987643
190.	INDUCTIVE WRITE HEAD HAVING HIGH MAGNETIC MOMENT POLES AND LOW MAGNETIC MOMENT THIN LAYER IN THE BACK GAP, AND METHODS FOR MAKING	6989962
191.	MAGNETORESISTIVE SENSOR WITH OVERLAPPING LEADS HAVING DISTRIBUTED CURRENT	6989972
192.	THIN FILM RECORDING HEAD WITH A BURIED COIL PROVIDING A SHORTENED YOKE AND IMPROVED DIMENSION CONTROL	7006327
193.	METHOD FOR MAKING HIGH SPEED, HIGH AREAL DENSITY INDUCTIVE WRITE STRUCTURE	7007372
194.	SUBMICRON TRACK-WIDTH POLE-TIPS FOR ELECTROMAGNETIC TRANSDUCERS	7023658
195.	Spin Valve Type Magnetoresistance Sensor and Thin Film Magnetic Head	7026063
196.	Method and Apparatus for Measuring Write-Induced Pole Tip Protrusion	7027242

No.	Title	Patent /Application Number
197.	METHOD AND SYSTEM FOR PROVIDING A DUAL SPIN FILTER	7027268
198.	SPIN-DEPENDENT TUNNELING READ/WRITE SENSOR FOR HARD DISK DRIVES	7027274
199.	SYSTEM AND METHOD FOR MINIMIZING THERMAL POLE TIP PROTRUSION	7035046
200.	MANIPULATOR FOR MICROSCOPY SAMPLE PREPARATION AND METHODS FOR MAKING AND USE THEREOF	7041985
201.	Spin Valve Magnetoresistance Sensor and Thin Film Magnetic Head	7046490
202.	READER/WRITER FOR MAGNETIC MEMORY	7054113
203.	DIMPLE PIVOT POST FOR A ROTARY CO-LOCATED MICROACTUATOR	7057857
204.	CONNECTION OF TRACE CIRCUITRY IN A COMPUTER DISK DRIVE SYSTEM	7059868
205.	METHOD OF USING A MAGNETIC WRITE HEAD HAVING AN INTERNAL HEATER	7092195
206.	METHODS FOR FABRICATING REDEPOSITION FREE THIN FILM CPP READ SENSORS	7111382
207.	DOUBLE-NOSED INDUCTIVE TRANSDUCER WITH REDUCED OFF-TRACK WRITING	7113366
208.	STITCHED POLE WRITE ELEMENT WITH A T-SHAPED POLE TIP PORTION	7116517
209.	METHOD FOR DETERMINING A MICROACTUATOR RANGE OF MOVEMENT	7124654
210.	TRAILING EDGE RECORDING MAGNETIC HEAD WITH REVERSED DOUBLE BIAS COIL AND DEFLECTION POLE FOR PERPENDICULAR RECORDING WITH A NON-PERPENDICULAR WRITE FIELD	7126788
211.	MAGNETIC HEAD FOR PERPENDICULAR RECORDING WITH MAGNETIC LOOP PROVIDING NON-PERPENDICULAR WRITE FIELD	7126790
212.	SPIN STAND TESTING SYSTEM WITH FINE POSITIONER FOR HEAD STACK ASSEMBLY	7131346
213.	POLE TIP WITH SIDES FLARED AT MEDIA-FACING SURFACE	7133253
214.	NARROW TRACK WIDTH MAGNETORESISTIVE SENSOR AND METHOD OF MAKING	7134185
215.	MAGNETIC SENSOR HAVING AN ALUMINUM-NITRIDE SEED LAYER FOR AN ANTI-FERROMAGNETIC LAYER	7170725
216.	PROCESS OF MAKING A NON-CORROSIVE GMR SLIDER FOR PROXIMITY RECORDING	7174622
217.	MAGNETICALLY SOFT, HIGH SATURATION MAGNETIZATION LAMINATES OF IRON-COBALT-NITROGEN AND IRON-NICKEL FOR MAGNETIC HEAD POLE LAYERS	7177117

No.	Title	Patent /Application Number
218.	SHIELDED POLE MAGNETIC HEAD FOR PERPENDICULAR RECORDING	7193815
219.	SPIN VALVE SENSOR HAVING A NONMAGNETIC ENHANCEMENT LAYER ADJACENT AN ULTRA THIN FREE LAYER	7196880
220.	Read/Write Head With Reduced Pole Tip Protrusion	7199974
221.	MAGNETIC HEAD FOR PERPENDICULAR RECORDING WITH HARD BIAS STRUCTURE FOR WRITE POLE TIP	7199975
222.	HIGHLY CONDUCTIVE LEAD ADJOINING MR STRIPE AND EXTENDING BEYOND STRIPE HEIGHT AT JUNCTION	7211339
223.	MAGNETIC READ HEAD WITH RECESSED HARD BIAS AND CURRENT LEADS	7212384
224.	METHOD OF FABRICATING A WRITE ELEMENT WITH A REDUCED YOKE LENGTH	7238292
225.	A WRITE ELEMENT FOR PERPENDICULAR RECORDING IN A DATA STORAGE SYSTEM	7239478
226.	METHOD OF FABRICATING A PERPENDICULAR RECORDING WRITE HEAD HAVING A GAP WITH TWO PORTIONS	7248431
227.	MAGNETIC HEAD WITH STITCHED TOP POLE LAYER AND SINGLE LAYER COIL OR SOLENOIDAL COIL	7248433
228.	MAGNETORESISTIVE READ SENSOR WITH REDUCED EFFECTIVE SHIELD-TO-SHIELD SPACING	7248449
229.	FERROMAGNETIC STRUCTURE INCLUDING A FIRST SECTION SEPARATED FROM A FERROMAGNETIC LAYER BY AN ELECTRICALLY CONDUCTIVE NONMAGNETIC SPACER AND A SECOND SECTION ELONGATED RELATIVE TO THE FIRST SECTION IN AT LEAST ONE DIMENSION	7280325
230.	METHOD FOR MANUFACTURING A SHIELDED POLE MAGNETIC HEAD FOR PERPENDICULAR RECORDING	7337530
231.	MAGNETORESISTIVE READ HEAD HAVING A BIAS STRUCTURE WITH AT LEAST ONE DUSTING LAYER	7342752
232.	METHOD OF MONITORING OPERATION OF A DISK DRIVE BY ANALYZING THE ENVELOPE OF A READ-BACK SIGNAL IN THE FREQUENCY DOMAIN	7349170
233.	WRITE HEAD FOR IMPROVED MANUFACTURING LARGER WRITE FIELD AND REDUCED ADJACENT TRACK ERASURE	7349179
234.	MAGNETICALLY SOFT, HIGH SATURATION MAGNETIZATION LAMINATE OF IRON-COBALT-NITROGEN AND IRON-NICKEL FOR PERPENDICULAR MEDIA UNDERLAYERS	7354664
235.	METHOD FOR MANUFACTURING A GROUP OF HEAD GIMBAL ASSEMBLIES	7363697
236.	NON-UNIFORM SUBAPERTURE POLISHING	7371152

No.	Title	Patent /Application Number
237.	MAGNETIC RECORDING HEAD WITH RESISTIVE HEATING ELEMENT LOCATED NEAR THE WRITE COIL	7372665
238.	INDUCTIVE WRITER DESIGN USING A SOFT MAGNETIC PEDESTAL HAVING A HIGH MAGNETIC SATURATION LAYER	7375926
239.	WRITE ELEMENT WITH REDUCED YOKE LENGTH FOR ULTRA-HIGH DENSITY WRITING	7379269
240.	METHOD OF FABRICATING THIN FILM WRITE HEADS WITH A SHORTENED YOKE AND IMPROVED DIMENSION CONTROL	7386933
241.	METHOD TO FABRICATE AN ESD RESISTANT TUNNELING MAGNETORESISTIVE READ TRANSDUCER.	7389577
242.	MAGNETORESISTIVE STRUCTURE HAVING A NOVEL SPECULAR AND FILTER LAYER COMBINATION	7417832
243.	METHOD AND SYSTEM FOR PROVIDING A SMALLER CRITICAL DIMENSION MAGNETIC ELEMENT UTILIZING A SINGLE LAYER MASK	7419891
244.	MAGNETIC RECORDING HEAD WITH RESISTIVE HEATING ELEMENT AND THERMAL BARRIER LAYER	7428124
245.	PERPENDICULAR MAGNETIC RECORDING HEAD WITH DYNAMIC FLYING HEIGHT HEATING ELEMENT	7430098
246.	METHOD FOR SELECTING AN ELECTRICAL POWER TO BE APPLIED TO A HEAD-BASED FLYING HEIGHT ACTUATOR	7436620
247.	HEATED GIMBAL FOR MAGNETIC HEAD TO DISK CLEARANCE ADJUSTMENT	7436631
248.	FERROMAGNETIC PINNING STRUCTURE INCLUDING A FIRST SECTION ANTIFERROMAGNETICALLY COUPLED TO A PINNED LAYER AND A SECOND SECTION ELONGATED RELATIVE TO THE FIRST SECTION IN A STRIPE HEIGHT DIRECTION	7436638
249.	METHOD FOR DEFINING A TOUCH-DOWN POWER FOR HEAD HAVING A FLYING HEIGHT ACTUATOR	7440220
250.	MAGNETIC HEAD WITH STITCHED TOP POLE LAYER AND SINGLE LAYER COIL OR SOLENOIDAL COIL	7443632
251.	DAMASCENE PROCESS FOR FABRICATING POLES IN RECORDING HEADS	7444740
252.	HEAD GIMBAL ASSEMBLY WITH AIR BEARING SLIDER CROWN HAVING REDUCED TEMPERATURE SENSITIVITY	7474508
253.	AIR BEARING SLIDER WITH A SIDE PAD HAVING A SHALLOW RECESS DEPTH	7477486
254.	METHOD OF MANUFACTURING A MAGNETIC RECORDING TRANSDUCER	7493688
255.	METHOD AND SYSTEM FOR PROVIDING PERPENDICULAR MAGNETIC RECORDING TRANSDUCERS	7508627

No.	Title	Patent /Application Number
256.	MAGNETIC WRITE HEAD WITH HIGH MOMENT MAGNETIC THIN FILM FORMED OVER SEED LAYER	7522377
257.	WRITE ELEMENT WITH RECESSED POLE AND HEAT SINK LAYER FOR ULTRA-HIGH DENSITY WRITING	7522379
258.	HEAD STACK ASSEMBLY WITH INTERLEAVED FLEXURE TAIL BOND PAD ROWS	7522382
259.	TRANSDUCER WITH POLE TIP PROTRUSION COMPENSATION LAYER	7542246
260.	DUAL ELECTRICAL LAPPING GUIDES WITH COMMON BONDING PAD	7551406
261.	ELECTRICAL LAPPING GUIDE DISPOSED Laterally RELATIVE TO A SHIELD PEDESTAL	7554767
262.	DISK DRIVE DETERMINING OPERATING FLY HEIGHT BY DETECTING HEAD DISK CONTACT FROM DISK ROTATION TIME	7583466
263.	FLEXURE DESIGN AND ASSEMBLY PROCESS FOR ATTACHMENT OF SLIDER USING SOLDER AND LASER REFLOW	7593190
264.	METHOD FOR FABRICATING A SPACER LAYER FOR MAGNETORESISTIVE ELEMENT	7595967
265.	SLIDER WITH AN AIR BEARING SURFACE HAVING A INTER-CAVITY DAM WITH OD AND ID DAM SURFACES OF DIFFERENT HEIGHTS	7616405
266.	MAGNETIC SENSOR WITH UNDERLAYERS PROMOTING HIGH-COERCIVITY, IN-PLANE BIAS LAYERS	7639457
267.	READ/WRITE HEAD WITH DYNAMIC FLYING HEIGHT CONTROL BY MAGNETOSTRICTION	7660080
268.	LAMINATED PERPENDICULAR WRITER HEAD INCLUDING AMORPHOUS METAL	7672080
269.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC ELEMENT HAVING A CURRENT CONFINED LAYER	7672086
270.	MAGNETORESISTIVE STRUCTURE HAVING A NOVEL SPECULAR AND BARRIER LAYER COMBINATION	7684160
271.	PERPENDICULAR MAGNETIC RECORDING HEAD HAVING NONMAGNETIC INSERTION LAYERS	7688546
272.	METHOD FOR FABRICATING MAGNETORESISTIVE READ HEAD HAVING A BIAS STRUCTURE WITH AT LEAST ONE DUSTING LAYER	7691434
273.	METHOD AND SYSTEM FOR PROVIDING A SPIN TUNNELING MAGNETIC ELEMENT HAVING A CRYSTALLINE BARRIER LAYER	7695761
274.	HEAD HAVING A TRANSDUCER HEATER AND AN AIR BEARING SURFACE WITH A FLOW-DIVERSION DAM AND PRESSURE-RELIEF TROUGH DISPOSED UPSTREAM OF THE TRANSDUCER	7719795

No.	Title	Patent /Application Number
275.	METHOD OF FABRICATING A PERPENDICULAR RECORDING WRITE HEAD HAVING A GAP WITH TWO PORTIONS	7726009
276.	PERPENDICULAR MAGNETIC RECORDING HEAD WITH DYNAMIC FLYING HEIGHT HEATING ELEMENT DISPOSED BELOW TURNS OF A WRITE COIL	7729086
277.	MAGNETIC RECORDING HEAD WITH RESISTIVE HEATING ELEMENT LOCATED NEAR THE WRITE COIL	7729087
278.	METHOD AND SYSTEM FOR PROVIDING OPTICAL PROXIMITY CORRECTION FOR STRUCTURES SUCH AS A PMR NOSE	7736823
279.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC RECORDING MEDIA	7755861
280.	METHOD AND SYSTEM FOR FABRICATING A MAGNETIC RECORDING DEVICE	7785666
281.	HEAD INTEGRATED TOUCHDOWN SENSOR FOR HARD DISK DRIVES	7796356
282.	DIFFERENTIAL HEAD INTEGRATED TOUCHDOWN SENSORS FOR HARD DISK DRIVES	7800858
283.	METHOD AND SYSTEM FOR CLEANING MAGNETIC ARTIFACTS USING A CARBONYL REACTIVE ION ETCH	7819979
284.	METHOD AND SYSTEM FOR PROVIDING A MICROELECTRONIC DEVICE USING A PLURALITY OF FOCUS DISTANCES	7829264
285.	METHOD AND SYSTEM FOR PROVIDING A STRUCTURE IN A MICROELECTRONIC DEVICE USING A CHROMELESS ALTERNATING PHASE SHIFT MASK	7846643
286.	HEAD WITH AN AIR BEARING SURFACE HAVING A SHALLOW RECESSED TRAILING AIR FLOW DAM	7855854
287.	PERPENDICULAR RECORDING HEAD WITH SHAPED POLE SURFACES FOR HIGHER LINEAR DATA DENSITIES	7869160
288.	SETTING AN OPERATING BIAS CURRENT FOR A MAGNETORESISTIVE HEAD BY COMPUTING A TARGET OPERATING VOLTAGE	7872824
289.	HEAD WITH A TRANSDUCER OVERCOAT HAVING A TRAILING AIR FLOW DAM THAT IS SHALLOWLY RECESSED FROM AN AIR BEARING SURFACE	7872833
290.	METHOD AND SYSTEM FOR PROVIDING OPTICAL PROXIMITY CORRECTION FOR STRUCTURES SUCH AS A PMR NOSE	7910267
291.	PERPENDICULAR MAGNETIC RECORDING HEAD UTILIZING A NONMAGNETIC UNDERLAYER LAYER	7911735
292.	METHOD AND SYSTEM FOR PROVIDING A PMR HEAD HAVING AN ANTIFERROMAGNETICALLY COUPLED POLE	7911737

No.	Title	Patent /Application Number
293.	HEAD WITH AN AIR BEARING SURFACE HAVING LEFT AND RIGHT LEADING PRESSURIZING STEPS, EACH WITH SHORT AND LONG REGIONS	7916426
294.	SYSTEM FOR MANUFACTURING A GROUP OF HEAD GIMBAL ASSEMBLIES (HGAS)	7918013
295.	MAGNETICALLY SOFT, HIGH SATURATION MAGNETIZATION LAMINATE OF IRON-COBALT-NITROGEN AND IRON-NICKEL FOR PERPENDICULAR MEDIA UNDERLAYERS	7968219
296.	METHOD AND SYSTEM FOR MEASURING MAGNETIC INTERFERENCE WIDTH	7982989
297.	METHOD AND SYSTEM FOR TESTING P2 STIFFNESS OF A MAGNETORESISTANCE TRANSDUCER AT THE WAFER LEVEL	8008912
298.	METHOD AND SYSTEM FOR MOUNTING LASERS ON ENERGY ASSISTED MAGNETIC RECORDING HEADS	8012804
299.	A METHOD FOR PROVIDING A PERPENDICULAR MAGNETIC RECORDING (PMR) HEAD	8015692
300.	MAGNETIC RECORDING HEAD FORMED BY DAMASCENE PROCESS	8018677
301.	METHOD FOR SIMULTANEOUS ELECTRONIC LAPPING GUIDE (ELG) AND PERPENDICULAR MAGNETIC RECORDING (PMR) POLE FORMATION	8018678
302.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC WRITER USING A BARC	8072705
303.	METHOD OF MEASURING A BEVEL ANGLE IN A WRITE HEAD	8074345
304.	REDUCING THERMAL PROTRUSION OF A NEAR FIELD TRANSDUCER IN AN ENERGY ASSISTED MAGNETIC RECORDING HEAD	8077418
305.	PERPENDICULAR MAGNETIC RECORDING HEAD HAVING A RECESSED MAGNETIC BASE LAYER	8077434
306.	CURRENT PERPENDICULAR-TO-PLANE READ SENSOR WITH BACK SHIELD	8077435
307.	MULTIPLE APERTURE VCSEL EAMR HEADS	8077557
308.	METHOD FOR PROVIDING A PERPENDICULAR MAGNETIC RECORDING (PMR) TRANSDUCER	8079135
309.	SLIDER WITH AN AIR-BEARING SURFACE INCLUDING FOUR PRESSURE GENERATING POCKETS FOR COUNTERING DISRUPTIVE MOVEMENT	8081400
310.	MAGNETIC ELEMENT HAVING A SMALLER CRITICAL DIMENSION OF THE FREE LAYER	8081403
311.	SLIDER WITH LEADING EDGE BLEND AND CONFORMAL STEP FEATURES	8087973
312.	SUSPENSION ASSEMBLY HAVING A READ HEAD CLAMP	8089730

No.	Title	Patent /Application Number
313.	METHOD FOR PROVIDING A STRUCTURE IN A MAGNETIC RECORDING TRANSDUCER	8091210
314.	METROLOGY AND 3D RECONSTRUCTION OF DEVICES IN A WAFER	8097846
315.	SELF-ALIGNED METHOD FOR FABRICATING A HIGH DENSITY GMR READ ELEMENT	8104166
316.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC TRANSDUCER HAVING AN IMPROVED READ SENSOR SYNTHETIC ANTIFERROMAGNET	8116043
317.	METHOD AND SYSTEM FOR PROVIDING ENERGY ASSISTED MAGNETIC RECORDING DISK DRIVE USING A VERTICAL SURFACE EMITTING LASER	8116171
318.	METHOD AND SYSTEM FOR OPTICALLY COUPLING A LASER WITH A TRANSDUCER IN AN ENERGY ASSISTED MAGNETIC RECORDING DISK DRIVE	8125856
319.	METHOD AND SYSTEM FOR PROVIDING AN ENERGY ASSISTED MAGNETIC RECORDING HEAD IN A WAFER PACKAGING CONFIGURATION	8134794
320.	METHOD AND SYSTEM FOR PROVIDING A PERPENDICULAR MAGNETIC RECORDING HEAD UTILIZING A MASK HAVING AN UNDERCUT LINE	8136224
321.	METHOD AND SYSTEM FOR PROVIDING A PERPENDICULAR MAGNETIC RECORDING HEAD	8136225
322.	ROW BAR HOLDER	8136805
323.	DISK DRIVE COMPRISING A DUAL READ ELEMENT AND DELAY CIRCUITRY TO IMPROVE READ SIGNAL	8139301
324.	METHOD FOR MANUFACTURING A PERPENDICULAR MAGNETIC RECORDING TRANSDUCER	8141235
325.	METHOD FOR PROVIDING A PERPENDICULAR MAGNETIC RECORDING (PMR) TRANSDUCER	8146236
326.	PERPENDICULAR MAGNETIC RECORDING HEAD HAVING A POLE TIP FORMED WITH A CMP UNIFORMITY STRUCTURE	8149536
327.	METHOD FOR PROVIDING AND UTILIZING AN ELECTRONIC LAPPING GUIDE IN A MAGNETIC RECORDING TRANSDUCER	8151441
328.	METHOD AND APPARATUS FOR LIFTING OFF PHOTORESIST BENEATH AN OVERLAYER	8163185
329.	METHOD AND SYSTEM FOR INTERROGATING THE THICKNESS OF A CARBON LAYER	8164760
330.	METHOD AND SYSTEM FOR PROVIDING A WRITE POLE IN AN ENERGY ASSISTED MAGNETIC RECORDING DISK DRIVE	8164855
331.	READ HEAD HAVING CONDUCTIVE FILLER IN INSULATED HOLE THROUGH SUBSTRATE	8164858
332.	METHOD AND SYSTEM FOR FABRICATING MAGNETIC TRANSDUCERS WITH IMPROVED PINNING	8164864

No.	Title	Patent /Application Number
333.	FOUR PAD SELF-CALIBRATING ELECTRONIC LAPPING GUIDE	8165709
334.	METHOD FOR FABRICATING A MAGNETIC RECORDING TRANSDUCER HAVING SIDE SHIELDS	8166631
335.	METHOD FOR PROVIDING A PERPENDICULAR MAGNETIC RECORDING (PMR) TRANSDUCER	8166632
336.	METHOD AND SYSTEM FOR EXPOSING A PHOTORESIST IN A MAGNETIC DEVICE	8169473
337.	TUNABLE POLE TRIM PROCESSES FOR FABRICATING TRAPEZOIDAL PERPENDICULAR MAGNETIC RECORDING (PMR) WRITE POLES	8171618
338.	METHOD AND SYSTEM FOR PROVIDING A PERPENDICULAR MAGNETIC RECORDING WRITER	8179636
339.	METHOD FOR PROVIDING A STRUCTURE IN A MAGNETIC TRANSDUCER	8191237
340.	METHOD AND SYSTEM FOR PROVIDING A READ SENSOR HAVING A LOW MAGNETOSTRICTION FREE LAYER	8194365
341.	TMR READ HEAD STRUCTURES WITH DIFFERENTIAL STRIPE HEIGHTS	8194366
342.	METHOD AND SYSTEM FOR PROVIDING A POLE FOR A PERPENDICULAR MAGNETIC RECORDING HEAD USING A MULTI-LAYER HARD MASK	8196285
343.	HEAD WITH AN AIR BEARING SURFACE HAVING A PARTICLE FENCE SEPARATED FROM A LEADING PAD BY A CONTINUOUS MOAT	8199437
344.	HIGH EFFICIENCY GRATING COUPLING FOR LIGHT DELIVERY IN EAMR	8200054
345.	SERVO DESIGN IN DATA STORAGE MEDIA	8203800
346.	ENERGY ASSISTED MAGNETIC RECORDING HEAD HAVING A NEAR FIELD TRANSDUCER WITH REDUCED THERMAL PROTRUSION	8208350
347.	SYSTEM FOR PERFORMING BONDING A FIRST SUBSTRATE TO A SECOND SUBSTRATE	8220140
348.	PRECISE METROLOGY WITH ADAPTIVE MILLING	8222599
349.	METHOD FOR PROVIDING A PERPENDICULAR MAGNETIC RECORDING (PMR) POLE	8225488
350.	METHOD AND SYSTEM FOR FABRICATING MAGNETIC TRANSDUCERS WITH IMPROVED PINNING	8227023
351.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC RECORDING TRANSDUCER HAVING A HYBRID MOMENT POLE	8228633
352.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC RECORDING TRANSDUCER HAVING SIDE SHIELDS	8231796
353.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC RECORDING TRANSDUCER USING A LINE HARD MASK	8233248

No.	Title	Patent /Application Number
354.	METHODS FOR MINIMIZING COMPONENT SHIFT DURING SOLDERING	8240545
355.	METHOD AND SYSTEM FOR PROVIDING AN ENERGY ASSISTED MAGNETIC RECORDING DISK DRIVE HAVING IMPROVED HEAT DISSIPATION	8248896
356.	STRAIGHT TOP MAIN POLE FOR PMR BEVEL WRITER	8254060
357.	UV ADHESIVE VISCOSITY ADJUSTMENT APPARATUS AND METHOD	8256272
358.	DOUBLE RIE DAMASCENE PROCESS FOR NOSE LENGTH CONTROL	8257597
359.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC HEAD USING A COMPOSITE MAGNETIC MATERIAL IN THE RECORDING TRANSDUCER	8259410
360.	INTEGRATION OF A VERTICAL CAVITY SURFACE EMITTING LASER (VCSEL) ON AN ENERGY-ASSISTED MAGNETIC RECORDING (EAMR) HEAD	8259539
361.	METHODS OF PRODUCING DAMASCENE MAIN POLE FOR PERPENDICULAR MAGNETIC RECORDING HEAD	8262918
362.	METHOD AND SYSTEM FOR PROVIDING A PERPENDICULAR MAGNETIC RECORDING POLE USING MULTIPLE CHEMICAL MECHANICAL PLANARIZATIONS	8262919
363.	HEAD GIMBAL ASSEMBLY HAVING A RADIAL ROTARY PIEZOELECTRIC MICROACTUATOR BETWEEN A READ HEAD AND A FLEXURE TONGUE	8264797
364.	MAGNETIC RECORDING HEAD	8264798
365.	METHOD AND SYSTEM FOR PROVIDING AN IMPROVED HARD BIAS STRUCTURE	8270126
366.	METHOD FOR FABRICATING A MAGNETIC RECORDING TRANSDUCER	8276258
367.	METHOD AND SYSTEM FOR PROVIDING A PERPENDICULAR MAGNETIC RECORDING POLE HAVING A LEADING EDGE BEVEL	8277669
368.	METHOD AND SYSTEM FOR COUPLING A LASER WITH A SLIDER IN AN ENERGY ASSISTED MAGNETIC RECORDING DISK DRIVE	8279719
369.	PERPENDICULAR MAGNETIC RECORDING HEAD	8284517
370.	METHOD OF FABRICATING COMPONENTS WITH PRECISE DIMENSION CONTROL	8288204
371.	METHOD AND SYSTEM FOR PULSING EAMR DISK DRIVES	8289821
372.	METHOD AND SYSTEM FOR CALIBRATING AN ELECTRONIC LAPPING GUIDE FOR A BEVELED POLE IN A MAGNETIC RECORDING TRANSDUCER	8291743
373.	METHODS FOR MODELING DEVICES IN A WAFER	8307539
374.	METHOD FOR PROVIDING AN ENERGY ASSISTED MAGNETIC RECORDING (EAMR) TRANSDUCER	8307540

No.	Title	Patent /Application Number
375.	MASK FOR INCREASED UNIFORMITY IN ION BEAM DEPOSITION	8308921
376.	PERPENDICULAR MAGNETIC RECORDING HEAD	8310785
377.	METHOD AND SYSTEM FOR PROVIDING SEPARATE WRITE AND OPTICAL MODULES IN AN ENERGY ASSISTED MAGNETIC RECORDING DISK DRIVE	8310901
378.	METHOD AND SYSTEM FOR PROVIDING AN IMPROVED MAGNETORESISTIVE STRUCTURE UTILIZING AN OXIDATION BUFFER LAYER	8315019
379.	METHOD FOR PROVIDING AT LEAST ONE MAGNETORESISTIVE DEVICE	8316527
380.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC RECORDING TRANSDUCER INCLUDING AN ASSIST POLE HAVING SURFACES ANGLED WITH RESPECT TO THE ABS	8320076
381.	METHOD AND SYSTEM FOR PROVIDING A HIGH MOMENT FILM	8320077
382.	TRAILING EDGE OPTIMIZED NEAR FIELD TRANSDUCER	8320219
383.	METHOD AND SYSTEM FOR PROVIDING AN ENERGY ASSISTED MAGNETIC RECORDING DISK DRIVE HAVING A NON-CONFORMAL HEAT SPREADER	8320220
384.	NON-LINEAR OPTICAL GRATING	8320722
385.	METHOD FOR PROVIDING AN ENERGY ASSISTED MAGNETIC RECORDING HEAD IN A WAFER PACKAGING CONFIGURATION	8322022
386.	METHOD FOR PROVIDING A WRAP-AROUND SHIELD FOR A MAGNETIC RECORDING TRANSDUCER	8322023
387.	AN EAMR HEAD HAVING IMPROVED OPTICAL COUPLING EFFICIENCY	8325569
388.	METHOD FOR MANUFACTURING A PERPENDICULAR MAGNETIC RECORDING TRANSDUCER	8333008
389.	METHOD AND SYSTEM FOR PROVIDING A PERPENDICULAR MAGNETIC RECORDING HEAD	8334093
390.	METHOD OF FABRICATING A TUNNELING MAGNETORESISTIVE (TMR) READER	8336194
391.	METHOD FOR PROVIDING A MAGNETIC RECORDING TRANSDUCER HAVING A HYBRID MOMENT POLE	8339738
392.	SLIDER WITH LEADING EDGE BLEND AND CONFORMAL STEP FEATURES	8339742
393.	METHOD AND SYSTEM FOR PROVIDING A PERPENDICULAR MAGNETIC RECORDING TRANSDUCER USING A SPLIT SEED LAYER	8341826
394.	METHOD AND SYSTEM FOR PROVIDING AN IMPROVED HARD BIAS STRUCTURE	8343319
395.	METHOD AND SYSTEM FOR FABRICATING A CAVITY IN A SUBSTRATE OF A MAGNETIC RECORDING HEAD	8343363

No.	Title	Patent /Application Number
396.	DOUBLE HARD-MASK MILL BACK METHOD OF FABRICATING A NEAR FIELD TRANSDUCER FOR ENERGY ASSISTED MAGNETIC RECORDING	8343364
397.	METHOD AND SYSTEM FOR PROVIDING A SUSPENSION HEAD BOND PAD DESIGN	8345519
398.	METHOD AND SYSTEM FOR PROVIDING A MAGNETORESISTIVE STRUCTURE USING UNDERCUT FREE MASK	8349195
399.	TRAILING EDGE OPTIMIZED NEAR FIELD TRANSDUCER HAVING NON-RECTANGULAR PIN CROSS SECTION	8351307
400.	METHOD FOR LIFTING OFF PHOTORESIST BENEATH AN OVERLAYER	8357244
401.	MAGNETIC WRITER HAVING A SPLIT YOKE	8373945
402.	METHOD FOR FABRICATING A POLE OF A MAGNETIC TRANSDUCER	8375564
403.	METHOD FOR PROVIDING AN ELECTRONIC LAPPING GUIDE CORRESPONDING TO A NEAR-FIELD TRANSDUCER OF AN ENERGY ASSISTED MAGNETIC RECORDING TRANSDUCER	8375565
404.	METHOD FOR PROVIDING A MAGNETIC RECORDING TRANSDUCER	8381391
405.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC RECORDING TRANSDUCER HAVING A PLANARIZED NEAR-FIELD TRANSDUCER AND A SLOPED POLE	8385158
406.	RESIST PATTERN PROTECTION TECHNIQUE FOR DOUBLE PATTERNING APPLICATION	8394280
407.	WRITE HEAD WITH VARIABLE SIDE SHIELD GAPS	8400731
408.	METHOD AND SYSTEM FOR PROVIDING A PERPENDICULAR MAGNETIC RECORDING HEAD	8404128
409.	METHOD AND SYSTEM FOR PROVIDING A CURVED SURFACE IN A MAGNETIC RECORDING HEAD	8404129
410.	METHOD AND SYSTEM FOR PROVIDING A TRANSDUCER HAVING A DUAL AUXILIARY POLE	8405930
411.	METHOD AND SYSTEM FOR PROVIDING A WRAP-AROUND SHIELD USING A PATTERNED SEED LAYER	8409453
412.	METHOD AND SYSTEM FOR FABRICATING A NARROW EAMR MAGNETIC POLE	8413317
413.	METHOD FOR DEFINING A MAGNETORESISTIVE JUNCTION USING MULTIPLE MILLS AT A PLURALITY OF ANGLES	8416540
414.	METHOD FOR PROVIDING A PLURALITY OF ENERGY ASSISTED MAGNETIC RECORDING (EAMR) HEADS	8418353
415.	METHOD AND SYSTEM FOR REMOVING AN ANTIFERROMAGNETIC SEED STRUCTURE	8419953
416.	METHOD FOR PROVIDING A SIDE SHIELD FOR A MAGNETIC RECORDING TRANSDUCER	8419954

No.	Title	Patent /Application Number
417.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC READ TRANSDUCER HAVING A BILAYER MAGNETIC SEED LAYER	8422176
418.	ENERGY ASSISTED MAGNETIC RECORDING DISK DRIVE USING A DISTRIBUTED FEEDBACK LASER	8422342
419.	DOUBLE OPTICAL GRATING	8422841
420.	METHOD OF MANUFACTURING A POLE FOR A MAGNETIC RECORDING HEAD	8424192
421.	METHOD AND SYSTEM FOR PROVIDING AN ANTIFERROMAGNETICALLY COUPLED WRITER	8441756
422.	ENERGY ASSISTED MAGNETIC RECORDING HEAD HAVING LASER INTEGRATED MOUNTED TO SLIDER	8441896
423.	METHOD FOR UTILIZING AN ELECTRONIC LAPPING GUIDE FOR A BEVELED POLE IN A MAGNETIC RECORDING TRANSDUCER	8443510
424.	METHOD AND SYSTEM FOR PROVIDING A PERPENDICULAR MAGNETIC RECORDING POLE WITH A MULTI-LAYER SIDE GAP	8444866
425.	METHOD AND SYSTEM FOR CORROSION PROTECTION OF LAYERS IN A STRUCTURE OF A MAGNETIC RECORDING TRANSDUCER	8449948
426.	METHOD AND SYSTEM FOR PROVIDING A MOLDED CAPPING LAYER FOR AN ENERGY ASSISTED MAGNETIC RECORDING HEAD	8451556
427.	METHOD FOR PROVIDING A SIDE SHIELD FOR A MAGNETIC RECORDING TRANSDUCER USING AN AIR BRIDGE	8451563
428.	METHOD AND SYSTEM FOR PROVIDING A FULL WRAP-AROUND SHIELD USING A FRAME CONFIGURED WET ETCH IN A DAMASCENE PROCESS	8454846
429.	DISK HAVING AN UNDERLAYER THAT INCLUDES A PLURALITY OF NONMAGNETIC LAYERS INTERLEAVED WITH MAGNETIC LAYERS	8455119
430.	METHOD AND SYSTEM FOR MAPPING THE SHAPE OF A HEAD UNDER OPERATING CONDITIONS	8456643
431.	SYSTEMS AND METHODS FOR MOUNTING AND ALIGNING A LASER IN AN ELECTRICALLY ASSISTED MAGNETIC RECORDING ASSEMBLY	8456961
432.	METHOD AND SYSTEM FOR AN ENERGY ASSISTED MAGNETIC RECORDING HEAD HAVING A SUSPENSION-MOUNTED LASER	8456963
433.	ENERGY ASSISTED MAGNETIC RECORDING HEAD HAVING A REFLECTOR FOR IMPROVING EFFICIENCY OF THE LIGHT BEAM	8456964
434.	METHOD AND SYSTEM FOR ENHANCING OPTICAL EFFICIENCY FOR AN EAMR HEAD	8456966

No.	Title	Patent /Application Number
435.	SYSTEMS AND METHODS FOR PROVIDING A POLE PEDESTAL FOR MICROWAVE ASSISTED MAGNETIC RECORDING	8456967
436.	METHOD FOR PROVIDING A PERPENDICULAR MAGNETIC RECORDING TRANSDUCER USING A LOW ENERGY MILL	8458892
437.	LOCALIZED HEATING FOR FLIP CHIP BONDING	8462462
438.	ENERGY-ASSISTED MAGNETIC RECORDING HEAD HAVING WAVEGUIDE CAPABLE OF PROVIDING SMALL BEAM SPOTS	8462592
439.	METHOD FOR MANUFACTURING PERPENDICULAR MAGNETIC RECORDING TRANSDUCER	8468682
440.	RECORDING HEAD WITH NEAR FIELD TRANSDUCER HAVING NON-RECTANGULAR PIN CROSS SECTION	8472288
441.	METHOD AND SYSTEM FOR PROVIDING A READ SENSOR IN A MAGNETIC RECORDING TRANSDUCER USING FOCUSED ION BEAM SCAN POLISHING	8480911
442.	VACUUM PICKUP ASSEMBLIES FOR PICKING UP ARTICLES AND MINIMIZING CONTAMINATION THEREOF	8485579
443.	DAMASCENE WRITE POLES PRODUCED VIA FULL FILM PLATING	8486285
444.	METHOD AND SYSTEM FOR PROVIDING AN ENERGY ASSISTED MAGNETIC RECORDING WRITER HAVING AN INTEGRATED NFT, HEAT SINK, AND POLE	8486286
445.	MAGNETIC RECORDING TRANSDUCER HAVING SIDE SHIELDS	8488272
446.	DISK DRIVE SUSPENSION ASSEMBLY WITH FLEXURE HAVING STACKED INTERLEAVED TRACES	8488279
447.	DISK DRIVE SUSPENSION ASSEMBLY HAVING A FLEXURE BOND PAD SHELF SEPARATE FROM A TONGUE	8488281
448.	METHOD AND SYSTEM FOR PROVIDING AN NFT USING A SACRIFICIAL NFT STRUCTURE	8491801
449.	METHOD OF FORMING A DIELECTRIC SLOPE FOR EAMR AND MAGNETIC WRITER	8491802
450.	PERPENDICULAR MAGNETIC RECORDING TRANSDUCER WITH AFM INSERTION LAYER	8493693
451.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC READ TRANSDUCER HAVING AN IMPROVED SIGNAL TO NOISE RATIO	8493695
452.	A METHOD OF MAKING AN ENERGY-ASSISTED MAGNETIC RECORDING APPARATUS	8495813
453.	MAGNETORESISTIVE SENSORS HAVING AN IMPROVED FREE LAYER	8498084

No.	Title	Patent /Application Number
454.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC RECORDING TRANSDUCER USING AN ION BEAM SCAN POLISHING PLANARIZATION	8506828
455.	DISK DRIVE COMPRISING A DUAL READ ELEMENT AND DELAY CIRCUITRY TO IMPROVE READ SIGNAL	8514506
456.	SYSTEMS AND METHODS FOR PROVIDING HYBRID COILS FOR MAGNETIC WRITE HEADS	8514517
457.	SYSTEMS FOR INTERCONNECTING MAGNETIC HEADS OF STORAGE DEVICES IN A TEST ASSEMBLY	8514522
458.	METHOD AND SYSTEM FOR PROVIDING A LASER CAVITY FOR AN ENERGY ASSISTED MAGNETIC RECORDING HEAD	8518279
459.	METHOD AND SYSTEM FOR PROVIDING A LASER SUBMOUNT FOR AN ENERGY ASSISTED MAGNETIC RECORDING HEAD	8518748
460.	PROCESS FOR MASKING AND REMOVAL OF RESIDUE FROM COMPLEX SHAPES	8518832
461.	MAGNETIC RECORDING HEAD WITH NANO SCALE POLE TIP BULGE	8520336
462.	PERPENDICULAR MAGNETIC RECORDING WRITER POLE WITH LEADING AND TRAILING BEVEL SIDE WALL ANGLES AT AIR BEARING SURFACE	8520337
463.	LOW-RATE ELECTROCHEMICAL ETCH OF THIN FILM METALS AND ALLOYS	8524068
464.	SYSTEMS AND METHODS FOR DISSIPATING HEAT FROM A NEAR-FIELD TRANSDUCER IN AN ENERGY ASSISTED MAGNETIC RECORDING ASSEMBLY	8526275
465.	METHOD AND SYSTEM FOR PROVIDING A READ TRANSDUCER HAVING A COMPOSITE MAGNETIC SHIELD WITH SMOOTH INTERFACES	8531801
466.	OPTICAL GRATING AND METHOD OF MANUFACTURE	8532450
467.	SYSTEMS AND METHODS FOR PRE-HEATING ADJACENT BOND PADS FOR SOLDERING	8533936
468.	METHOD OF FORMING A FULLY WRAPPED-AROUND SHIELDED PMR WRITER POLE	8533937
469.	PMR HEAD WITH AN ANGLED STITCH LAYER	8537494
470.	MAGNETIC WRITER HAVING A SPLIT YOKE	8537495
471.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC TRANSDUCER HAVING IMPROVED SHIELD-TO-SHIELD SPACING	8537502
472.	SYSTEMS AND METHODS FOR REPOSITIONING ROW BARS USED FOR MANUFACTURING MAGNETIC HEADS	8545164
473.	METHOD AND SYSTEM FOR PROVIDING A MAGNETORESISTIVE STRUCTURE	8545999

No.	Title	Patent /Application Number
474.	SYSTEM FOR FOR PROVIDING A TRANSDUCER HAVING A MAIN COIL AND AN ADDITIONAL COIL SEPARATED FROM THE MAIN POLE BY A WRITE SHIELD	8547659
475.	METHOD AND SYSTEM FOR PROVIDING A HARD BIAS STRUCTURE IN A MAGNETIC RECORDING TRANSDUCER	8547667
476.	METHOD AND SYSTEM FOR PROVIDING A SPIN TUNNELING MAGNETIC ELEMENT HAVING A CRYSTALLINE BARRIER LAYER	8547730
477.	APPARATUSES AND METHODS FOR LOADING A HEAD ONTO A DISK MEDIUM	8553365
478.	METHOD FOR PROVIDING A POLE IN A MAGNETIC RECORDING TRANSDUCER USING A CATHODIC ETCH	8555486
479.	SPIN TUNNELING MAGNETIC ELEMENT PROMOTING FREE LAYER CRYSTAL GROWTH FROM A BARRIER LAYER INTERFACE	8559141
480.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC RECORDING POLE HAVING A DUAL SIDEWALL ANGLE	8563146
481.	METHOD AND SYSTEM FOR REDUCING THERMAL PROTRUSION OF AN NFT	8565049
482.	ABSORPTION ENHANCED MEDIA FOR ENERGY ASSISTED MAGNETIC RECORDING	8570844
483.	MAGNETIC RECORDING TRANSDUCER HAVING SIDE SHIELDS BETWEEN THE COILS AND THE AIR-BEARING SURFACE	8576517
484.	PROCESS FOR FABRICATING A MAGNETIC POLE AND SHIELDS	8578594
485.	SYSTEMS AND METHODS FOR PROVIDING PERPENDICULAR MAGNETIC WRITERS HAVING GRADIENT MAGNETIC MOMENT SIDE SHIELDS	8582238
486.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC TRANSDUCER HAVING A HIGH MOMENT BILAYER MAGNETIC SEED LAYER FOR A TRAILING SHIELD	8582241
487.	MAGNETIC SENSOR HAVING A HIGH SPIN POLARIZATION REFERENCE LAYER	8582253
488.	MAGNETIC RECORDING HEAD SLIDER COMPRISING BOND PAD HAVING A PROBE CONTACT AREA AND A SOLDER CONTACT AREA	8587901
489.	ENERGY-ASSISTED MAGNETIC RECORDING HEAD HAVING MULTIPLE CORES OF DIFFERENT LENGTHS	8588039
490.	METHOD AND SYSTEM FOR OPTICALLY COUPLING A LASER WITH A TRANSDUCER IN AN ENERGY ASSISTED MAGNETIC RECORDING DISK DRIVE	8593914
491.	METHOD AND SYSTEM FOR DEFINING A READ SENSOR USING AN ION MILL PLANARIZATION	8597528

No.	Title	Patent /Application Number
492.	METHOD AND SYSTEM FOR PROVIDING A READ TRANSDUCER HAVING AN ADAPTIVE READ SENSOR TRACK WIDTH	8599520
493.	METHOD AND SYSTEM FOR PROVIDING ENERGY ASSISTED MAGNETIC RECORDING DISK DRIVE USING A DISTRIBUTED FEEDBACK LASER	8599657
494.	METHOD FOR PROVIDING AN IMPROVED HARD BIAS STRUCTURE	8603593
495.	METHOD FOR FABRICATING A READ SENSOR FOR A READ TRANSDUCER	8607438
496.	METHOD FOR PROVIDING AN ENERGY ASSISTED MAGNETIC RECORDING (EAMR) HEAD	8607439
497.	CAPACITANCE SENSOR FOR DETERMINING A DISTANCE BETWEEN A HEAD AND A MAGNETIC STORAGE MEDIUM	8611035
498.	LOCALIZED HEATING FOR FLIP CHIP BONDING	8611050
499.	ANTIFERROMAGNETICALLY-COUPLED SOFT BIAS MAGNETORESISTIVE READ HEAD, AND FABRICATION METHOD THEREFORE	8611054
500.	MAGNETIC ETCH-STOP LAYER FOR MAGNETORESISTIVE READ HEADS	8611055
501.	MAGNETORESISTIVE DEVICE WITH A HARD BIAS CAPPING LAYER	8614864
502.	STRESS BUFFER FOR NEAR-FIELD TRANSDUCER IN ENERGY ASSISTED MAGNETIC RECORDING AND METHODS FOR FABRICATING THE SAME	8619512
503.	TESTING WORKPIECE OVERCOAT	8623197
504.	CHARACTERIZING MAGNETIC RECORDING PARAMETERS OF A DISK DRIVE BY EVALUATING TRACK PROFILE OF DUAL MICROTRACKS	8625224
505.	SYSTEM AND METHOD FOR FABRICATING A MAGNETIC RECORDING POLE	8625233
506.	BROADBAND REFLECTIVE WAVEGUIDE METAL GRATINGS AND THEIR FORMATION	8625941
507.	PROCESS FOR MANUFACTURING A PERPENDICULAR MAGNETIC RECORDING WRITER POLE WITH NONMAGNETIC BEVEL	8628672
508.	METHOD AND SYSTEM FOR PROVIDING A SIDE SHIELDED READ TRANSDUCER	8630068
509.	METHOD AND SYSTEM FOR PROVIDING AN ENERGY ASSISTED MAGNETIC RECORDING WRITER HAVING A RING SHAPED NFT	8634280
510.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC READ TRANSDUCER HAVING A BILAYER MAGNETIC SEED LAYER	8638529
511.	MICRO-ACTUATOR ENABLING SINGLE DIRECTION MOTION OF A MAGNETIC DISK DRIVE HEAD	8643980

No.	Title	Patent /Application Number
512.	METHOD TO ELIMINATE REACTIVE ION ETCHING (RIE) LOADING EFFECTS FOR DAMASCENE PERPENDICULAR MAGNETIC RECORDING (PMR) FABRICATION	8649123
513.	DELTA TEMPERATURE TEST METHOD AND SYSTEM	8653824
514.	METHOD AND SYSTEM FOR PROVIDING ENHANCED THERMAL EXPANSION FOR HARD DISK DRIVES	8665561
515.	DISK DRIVE MAGNETIC READ HEAD WITH AFFIXED AND RECESSED LASER DEVICE	8665677
516.	SYSTEM FOR PROVIDING AN ENERGY ASSISTED MAGNETIC RECORDING HEAD HAVING A LEADING FACE-MOUNTED LASER	8665690
517.	METHOD AND SYSTEM FOR PROVIDING HIGH MAGNETIC FLUX SATURATION CoFe FILMS	8670211
518.	METHODS FOR TUNABLE PLATING SEED STEP COVERAGE	8670213
519.	METHOD AND SYSTEM FOR PROVIDING ENHANCED THERMAL EXPANSION FOR HARD DISK DRIVES	8670214
520.	SYSTEMS AND METHODS FOR INCREASING MEDIA ABSORPTION EFFICIENCY USING INTERFEROMETRIC WAVEGUIDES	8670294
521.	METHOD AND SYSTEM FOR OPTICALLY COUPLING A LASER WITH A TRANSDUCER IN AN ENERGY ASSISTED MAGNETIC RECORDING DISK DRIVE	8670295
522.	METHOD AND SYSTEM FOR PROVIDING A READ TRANSDUCER HAVING A REDUCED SHIELD-TO-SHIELD SPACING	8675318
523.	SYSTEMS AND METHODS FOR CONTROLLING LIGHT PHASE DIFFERENCE IN INTERFEROMETRIC WAVEGUIDES AT NEAR FIELD TRANSDUCERS	8675455
524.	METHOD AND SYSTEM FOR IMPROVING LASER ALIGNMENT AND OPTICAL TRANSMISSION EFFICIENCY OF AN ENERGY ASSISTED MAGNETIC RECORDING HEAD	8681594
525.	METHOD FOR PROVIDING A PERPENDICULAR MAGNETIC RECORDING (PMR) HEAD	8689430
526.	SYSTEMS AND METHODS FOR PROVIDING STACKED WRITER LEADS FOR MAGNETIC TRANSDUCERS	8693141
527.	METHOD FOR PROVIDING SIDE SHIELDS FOR A MAGNETIC RECORDING TRANSDUCER	8703397
528.	A MAGNETIC RECORDING POLE HAVING A DUAL SIDEWALL ANGLE	8705205
529.	SYSTEM AND METHOD FOR DEPOSITION IN HIGH ASPECT RATIO MAGNETIC WRITER HEADS	8711518
530.	TUNNEL MAGNETORESISTANCE READ HEAD WITH NARROW SHIELD-TO-SHIELD SPACING	8711528

No.	Title	Patent /Application Number
531.	CHARACTERIZING HEAD PARAMETERS OF A DISK DRIVE BY EVALUATING TRACK PROFILE OF AN OVERWRITTEN TRACK	8717695
532.	SYSTEM FOR CALIBRATING AN ELECTRONIC LAPPING GUIDE FOR A BEVELED POLE IN A MAGNETIC RECORDING TRANSDUCER	8717709
533.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC RECORDING TRANSDUCER HAVING SIDE SHIELDS	8720044
534.	METHOD AND SYSTEM FOR PROVIDING AN ENERGY ASSISTED MAGNETIC RECORDING WRITER HAVING A HEAT SINK AND NFT	8721902
535.	CONFORMAL HIGH MOMENT SIDE SHIELD SEED LAYER FOR PERPENDICULAR MAGNETIC RECORDING WRITER	8724259
536.	STRUCTURE AND METHOD TO MEASURE WAVEGUIDE POWER ABSORPTION BY SURFACE PLASMON ELEMENT	8749790
537.	MAGNETIC RECORDING HEAD WITH DYNAMIC FLY HEIGHT HEATING AND HAVING THERMALLY CONTROLLED POLE TIP PROTRUSION TO CONTROL AND PROTECT READER ELEMENT	8749920
538.	METHODS AND APPARATUSES FOR PERFORMING WAFER LEVEL CHARACTERIZATION OF A PLASMON ELEMENT	8753903
539.	METHOD AND SYSTEM FOR PROVIDING AN IMPROVED SENSOR STACK FOR A RECORDING HEAD	8755152
540.	METHOD FOR MANUFACTURING A READ HEAD HAVING CONDUCTIVE FILLER IN INSULATED HOLE THROUGH SUBSTRATE	8756795
541.	METHOD AND SYSTEM FOR ADJUSTING LAPPING OF A TRANSDUCER USING A DISK WINDAGE	8758083
542.	METHOD FOR PROVIDING A WRAPAROUND SHIELD FOR A MAGNETIC RECORDING TRANSDUCER USING A DAMASCENE PROCESS	8760807
543.	SYSTEMS AND METHODS FOR PROVIDING MAGNETIC STORAGE ELEMENTS WITH HIGH MAGNETO-RESISTANCE USING HEUSLER ALLOYS	8760818
544.	MAGNETIC RECORDING SENSOR WITH SPUTTERED ANTIFERROMAGNETIC COUPLING TRILAYER BETWEEN PLATED FERROMAGNETIC SHIELDS AND METHOD OF FABRICATION	8760819
545.	METHOD AND SYSTEM FOR PROVIDING A READ TRANSDUCER HAVING AN EXTENDED PINNED LAYER AND SOFT MAGNETIC BIAS STRUCTURES WITH IMPROVED STABILITY	8760822
546.	METHOD AND SYSTEM FOR PROVIDING A READ TRANSDUCER HAVING SOFT AND HARD MAGNETIC BIAS STRUCTURES	8760823

No.	Title	Patent /Application Number
547.	METHOD FOR BONDING SUBSTRATES IN AN ENERGY ASSISTED MAGNETIC RECORDING HEAD	8763235
548.	METHOD AND SYSTEM FOR ALIGNING SUBSTRATES FOR DIRECT LASER COUPLING IN AN ENERGY ASSISTED MAGNETIC RECORDING HEAD	8773664
549.	BI-LAYER NFT-CORE SPACER FOR EAMR SYSTEM AND METHOD OF MAKING THE SAME	8773956
550.	SYSTEM FOR PROVIDING A PERPENDICULAR MAGNETIC RECORDING TRANSDUCER USING A SPLIT SEED LAYER	8780498
551.	METHOD AND SYSTEM FOR PROVIDING A READ TRANSDUCER HAVING AN IMPROVED COMPOSITE MAGNETIC SHIELD	8780505
552.	MAGNETIC WRITER HAVING A LOW ASPECT RATIO TWO LAYER COIL	8786983
553.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC RECORDING TRANSDUCER USING A LINE HARD MASK AND A WET-ETCHABLE MASK	8790524
554.	METHOD AND SYSTEM FOR MANUFACTURING TAPERED WAVEGUIDE STRUCTURES IN AN ENERGY ASSISTED MAGNETIC RECORDING HEAD	8790527
555.	METHOD FOR PROVIDING SIDE SHIELDS HAVING NON-CONFORMAL REGIONS FOR A MAGNETIC RECORDING TRANSDUCER	8792208
556.	ROBUST GIMBAL DESIGN FOR HEAD GIMBAL ASSEMBLY	8792212
557.	METHOD AND SYSTEM FOR PROVIDING AN ENERGY ASSISTED MAGNETIC RECORDING HEAD	8792312
558.	METHOD FOR PROVIDING A PERPENDICULAR MAGNETIC RECORDING HEAD	8793866
559.	PERPENDICULAR MAGNETIC RECORDING (PMR) HEAD	8797680
560.	MAGNETIC WRITER CONFIGURED FOR HIGH DATA RATE RECORDING	8797684
561.	MAGNETIC RECORDING TRANSDUCER WITH SHORT EFFECTIVE THROAT HEIGHT AND METHOD OF FABRICATION	8797686
562.	MAGNETIC RECORDING SENSOR WITH AFM EXCHANGE COUPLED SHIELD STABILIZATION	8797692
563.	ABSORPTION ENHANCED MEDIA FOR ENERGY ASSISTED MAGNETIC RECORDING	8811129
564.	METHOD FOR PROVIDING A PIEZOELECTRIC MULTILAYER	8813324
565.	METHOD AND SYSTEM FOR PROVIDING A PERPENDICULAR MAGNETIC RECORDING HEAD	8830628
566.	METHOD AND SYSTEM FOR PROVIDING AN ENERGY ASSISTED MAGNETIC RECORDING WRITER HAVING A SELF ALLIGNED HEAT SINK AND NFT	8834728

No.	Title	Patent /Application Number
567.	SYSTEMS AND METHODS FOR CHARACTERIZING NEAR FIELD TRANSDUCER PERFORMANCE AT WAFER LEVEL USING ASYMMETRIC INTERFERENCE WAVEGUIDES	8836949
568.	LAMINATED TOUCHDOWN SENSOR FOR HARD DISK DRIVES	8837081
569.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC RECORDING TRANSDUCER INCLUDING AN ASSIST POLE HAVING SURFACES ANGLED WITH RESPECT TO THE ABS	8844120
570.	PROCESS FOR CMP WITH LARGE FEATURE SIZE VARIATION	8846534
571.	METHOD AND SYSTEM FOR PROVIDING A LASER SUBMOUNT FOR AN ENERGY ASSISTED MAGNETIC RECORDING HEAD	8860216
572.	METHOD AND SYSTEM FOR PERFORMING ON-WAFER TESTING OF HEADS	8860407
573.	INTEGRATED SENSOR FOR MONITORING LASER POWER IN A HEAT ASSISTED MAGNETIC RECORDING DISK DRIVE	8861124
574.	METHOD AND SYSTEM FOR PROVIDING A PERPENDICULAR MAGNETIC RECORDING TRANSDUCER USING A LOW ENERGY MILL	8861133
575.	METHOD AND SYSTEM FOR PROVIDING PERPENDICULAR MAGNETIC RECORDING TRANSDUCERS UTILIZING A DAMASCENE APPROACH	8861134
576.	HEAT ASSISTED MAGNETIC RECORDING TRANSDUCER HAVING PROTECTIVE PADS	8861317
577.	APPARATUSES AND METHODS FOR LOADING A HEAD ONTO A DISK MEDIUM	8867174
578.	METHOD AND SYSTEM FOR FABRICATING A NARROW LINE STRUCTURE IN A MAGNETIC RECORDING HEAD	8871102
579.	METHOD AND SYSTEM FOR PROVIDING A LASER CAVITY FOR AN ENERGY ASSISTED MAGNETIC RECORDING HEAD	8877358
580.	METHOD FOR PROVIDING A SIDE SHIELD FOR A MAGNETIC RECORDING TRANSDUCER USING AN AIR BRIDGE	8879207
581.	METHOD AND SYSTEM FOR PROVIDING A READ TRANSDUCER HAVING SEAMLESS INTERFACES	8883017
582.	CONNECTION SCHEMES FOR A MULTIPLE SENSOR ARRAY USABLE IN TWO-DIMENSIONAL MAGNETIC RECORDING	8891207
583.	METHOD OF FORMING A STRAIGHT TOP MAIN POLE FOR PMR BEVEL WRITER	8893376

No.	Title	Patent /Application Number
584.	METHOD AND SYSTEM FOR MEASURING LIGHT DELIVERY OFFSETS IN A HEAT ASSISTED MAGNETIC RECORDING HEAD	8897102
585.	METHOD AND SYSTEM FOR PERFORMING OFF-DISK MEASUREMENTS OF LASER-INDUCED NFT PROTRUSION IN A HEAT ASSISTED MAGNETIC RECORDING TRANSDUCER	8897104
586.	SHIELD DESIGNED FOR MIDDLE SHIELDS IN A MULTIPLE SENSOR ARRAY	8908333
587.	METHOD FOR PROVIDING A MONOLITHIC SHIELD FOR A MAGNETIC RECORDING TRANSDUCER	8914969
588.	MAGNETIC RECORDING TRANSDUCERS HAVING SLIM SHAPED ADDITIONAL POLES	8917480
589.	OPTICAL GRATING COUPLING FOR INTERFEROMETRIC WAVEGUIDES IN HEAT ASSISTED MAGNETIC RECORDING HEADS	8923102
590.	HEAT ASSISTED MAGNETIC RECORDING TRANSDUCERS HAVING A RECESSED POLE	8947985
591.	NEAR FIELD TRANSDUCER USING DIELECTRIC WAVEGUIDE CORE WITH FINE RIDGE FEATURE	8953422
592.	METHOD AND SYSTEM FOR PROVIDING AN NFT HAVING IMPROVED MECHANICAL STABILITY	8958168
593.	INTERFERING NEAR FIELD TRANSDUCER FOR ENERGY ASSISTED MAGNETIC RECORDING	8958272
594.	ENERGY ASSISTED MAGNETIC RECORDING TRANSDUCER HAVING AN ELECTRONIC LAPPING GUIDE CORRESPONDING TO A NEAR-FIELD TRANSDUCER	8964333
595.	ELECTRIC GAPS AND METHOD FOR MAKING ELECTRIC GAPS FOR MULTIPLE SENSOR ARRAY	8970988
596.	NEAR FIELD TRANSDUCER WITH HIGH REFRACTIVE INDEX PIN FOR HEAT ASSISTED MAGNETIC RECORDING	8971160
597.	NEAR FIELD TRANSDUCER DRIVEN BY A TRANSVERSE ELECTRIC WAVEGUIDE FOR ENERGY ASSISTED MAGNETIC RECORDING	8976635
598.	METHOD FOR PROVIDING A MAGNETIC RECORDING TRANSDUCER USING A COMBINED MAIN POLE AND SIDE SHIELD CMP FOR A WRAPAROUND SHIELD SCHEME	8980109
599.	METHOD FOR PROVIDING A SIDE SHIELD FOR A MAGNETIC RECORDING TRANSDUCER	8982508
600.	PROCESS FOR PROVIDING A MAGNETIC RECORDING TRANSDUCER HAVING A SMOOTH MAGNETIC SEED LAYER	8984740
601.	DISK RECORDING DEVICE FOR WRITING A RADially COHERENT REFERENCE BAND BY MEASURING RELATIVE TIMING OFFSETS OF REFERENCE BURSTS	8988809

No.	Title	Patent /Application Number
602.	MULTI-SENSOR ARRAY CONFIGURATION FOR A TWO-DIMENSIONAL MAGNETIC RECORDING (TDMR) OPERATION	8988812
603.	METHOD FOR FABRICATING A MAGNETIC WRITER HAVING HALF-SIDE SHIELDS	8988825
604.	AIR BEARING DESIGN TO MITIGATE LUBE WATERFALL EFFECT	8988830
605.	HYBRID CAPACITIVE AND PIEZOELECTRIC MOTION SENSING TRANSDUCER	8991251
606.	DOUBLE EXPOSURE TECHNIQUE FOR HIGH RESOLUTION DISK IMAGING	8993217
607.	PERPENDICULAR MAGNETIC RECORDING WRITE HEAD HAVING A WRAP AROUND SHIELD	8995087
608.	METHOD OF FABRICATING MICROMETER SCALE COMPONENTS	8997832
609.	METHOD FOR FABRICATING SIDE SHIELDS IN A MAGNETIC WRITER	9001467
610.	ASSISTANT WAVEGUIDES FOR EVALUATING MAIN WAVEGUIDE COUPLING EFFICIENCY AND DIODE LASER ALIGNMENT TOLERANCES FOR HARD DISK	9001628
611.	SYSTEMS AND METHODS FOR SUPPRESSING BACKGROUND ENERGY OF A WAVEGUIDE IN AN ENERGY ASSISTED MAGNETIC RECORDING SYSTEM	9001629
612.	METHOD AND SYSTEM FOR PROVIDING A BARRIER FOR A MAGNETORESISTIVE STRUCTURE UTILIZING HEATING	9003640
613.	SYSTEMS AND METHODS FOR USING DOUBLE MASK TECHNIQUES TO ACHIEVE VERY SMALL FEATURES	9007719
614.	SENSOR WITH POSITIVE COUPLING BETWEEN DUAL FERROMAGNETIC FREE LAYER LAMINATES	9007725
615.	METHOD AND SYSTEM FOR FABRICATING MAGNETIC TRANSDUCERS WITH IMPROVED PINNING	9007728
616.	INTERFERING NEAR FIELD TRANSDUCER HAVING A WIDE METAL BAR FEATURE FOR ENERGY ASSISTED MAGNETIC RECORDING	9007879
617.	METHOD AND SYSTEM FOR PROVIDING AN ANTIFERROMAGNETICALLY COUPLED RETURN POLE	9013836
618.	DAMASCENE PROCESS USING PVD SPUTTER CARBON FILM AS CMP STOP LAYER FOR FORMING A MAGNETIC RECORDING HEAD	9018100
619.	MAGNETIC HEAD HAVING A MAGNETORESISTIVE JUNCTION AND SIDE OXIDE LAYERS	9030784
620.	READER FABRICATION METHOD EMPLOYING DEVELOPABLE BOTTOM ANTI-REFLECTIVE COATING	9034564
621.	LASER-IGNITED REACTIVE HAMR BONDING	9042048
622.	GRADIENT WRITE GAP FOR PERPENDICULAR MAGNETIC RECORDING WRITER	9042051

No.	Title	Patent /Application Number
623.	MAGNETIC WRITER HAVING A PARTIALLY SHUNTED COIL	9042052
624.	METHODS FOR PROVIDING MAGNETIC STORAGE ELEMENTS WITH HIGH MAGNETO-RESISTANCE USING HEUSLER ALLOYS	9042057
625.	TOUCHDOWN SENSOR HAVING A MORE STABLE CRYSTAL STRUCTURE FOR USE IN HARD DISK DRIVES	9047902
626.	METHODS FOR CHARACTERIZING RELATIVE FILM DENSITY USING SPECTROSCOPIC ANALYSIS AT THE DEVICE LEVEL	9052269
627.	SYSTEM FOR PROVIDING A TRANSDUCER HAVING A SPLIT MAIN POLE	9053715
628.	MAGNETORESISTIVE SENSOR FOR A MAGNETIC STORAGE SYSTEM READ HEAD, AND FABRICATION METHOD THEREOF	9053719
629.	METHOD FOR FABRICATING A MAGNETIC WRITER USING A FULL-FILM METAL PLANARIZATION	9053735
630.	MAGNETIC ETCH-STOP LAYER FOR MAGNETORESISTIVE READ HEADS	9064507
631.	HIGH ORDER TAPERED WAVEGUIDE FOR USE IN A HEAT ASSISTED MAGNETIC RECORDING HEAD	9064527
632.	PROCESS FOR PROVIDING A MAGNETIC RECORDING TRANSDUCER WITH ENHANCED PINNING LAYER STABILITY	9064534
633.	TUNNEL MAGNETORESISTANCE READ HEAD WITH NARROW SHIELD-TO-SHIELD SPACING	9065043
634.	MAGNETIC RECORDING READ TRANSDUCER HAVING A LAMINATED FREE LAYER	9070381
635.	APPARATUS ENABLING WRITING SERVO DATA WHEN DISK REACHES TARGET ROTATION SPEED	9076472
636.	MAGNETIC RECORDING WRITE TRANSDUCER HAVING AN IMPROVED TRAILING SURFACE PROFILE	9082423
637.	METHODS FOR MANUFACTURING ELECTRONIC LAPPING GUIDES FOR WRITER HEADS THAT CLOSELY TRACK POLE FORMATION OF THE WRITER HEADS	9082426
638.	APPARATUS AND METHOD FOR MIDDLE SHIELD CONNECTION IN MAGNETIC RECORDING TRANSDUCERS	9087527
639.	METHOD AND SYSTEM FOR PROVIDING A READ TRANSDUCER HAVING SOFT AND HARD MAGNETIC BIAS STRUCTURES	9087534
640.	SYSTEM FOR ADJUSTING LAPPING OF A TRANSDUCER USING A DISK WINDAGE	9087537
641.	METHOD FOR PROVIDING A STRUCTURE HAVING REDUCED VOIDS IN A MAGNETIC RECORDING TRANSDUCER	9087542

No.	Title	Patent /Application Number
642.	METHODS FOR MANUFACTURING A MAGNETORESISTIVE STRUCTURE UTILIZING HEATING AND COOLING	9093639
643.	DUAL DAMASCENE PROCESS FOR PRODUCING A PMR WRITE POLE	9099118
644.	HIGH CONTRAST ALIGNMENT MARKER	9099145
645.	DUV PHOTORESIST PROCESS	9104107
646.	METHODS FOR PROVIDING ASYMMETRIC RUN TO RUN CONTROL OF PROCESS PARAMETERS	9110465
647.	WRITE TRANSDUCER HAVING A MAGNETIC BUFFER LAYER SPACED BETWEEN A SIDE SHIELD AND A WRITE POLE BY NON-MAGNETIC LAYERS	9111550
648.	SYSTEM AND METHOD OF DIFFRACTIVE FOCUSING OF LIGHT IN A WAVEGUIDE	9111558
649.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC RECORDING WRITER HAVING IMPROVED PERFORMANCE	9111564
650.	METHODS FOR MANUFACTURING HYBRID COILS FOR MAGNETIC WRITE HEADS USED IN STORAGE SYSTEMS	9117464
651.	CONFORMAL HIGH MOMENT SIDE SHIELD SEED LAYER FOR PERPENDICULAR MAGNETIC RECORDING WRITER	9123358
652.	MAGNETIC RECORDING TRANSDUCER WITH SPUTTERED ANTIFERROMAGNETIC COUPLING TRILAYER BETWEEN PLATED FERROMAGNETIC SHIELDS AND METHOD OF FABRICATION	9123359
653.	METHODS FOR ASSEMBLING AN ELECTRICALLY ASSISTED MAGNETIC RECORDING (EAMR) HEAD	9123362
654.	HEAT ASSISTED MAGNETIC RECORDING WRITER HAVING AN INTEGRATED POLARIZATION ROTATION PLATE	9123374
655.	METHOD FOR FABRICATING A MAGNETIC WRITE POLE USING VACUUM DEPOSITION	9135930
656.	CURRENT MODULATION ON LASER DIODE FOR ENERGY ASSISTED MAGNETIC RECORDING TRANSDUCER	9135937
657.	HEAT ASSISTED MAGNETIC RECORDING WRITER HAVING A RECESSED POLE	9142233
658.	METHOD AND SYSTEM FOR PROVIDING A READ TRANSDUCER HAVING A DUAL FREE LAYER	9147404
659.	HEATED AFM LAYER DEPOSITION AND COOLING PROCESS FOR TMR MAGNETIC RECORDING SENSOR WITH HIGH PINNING FIELD	9147408
660.	METHOD FOR FABRICATING A MAGNETIC WRITER HAVING AN ASYMMETRIC GAP AND SHIELDS	9153255

No.	Title	Patent /Application Number
661.	ELECTRONIC LAPPING GUIDE IN A MAGNETIC RECORDING TRANSDUCER	9153260
662.	MICROMETER SCALE COMPONENTS	9159345
663.	NEAR FIELD TRANSDUCER USING DIELECTRIC WAVEGUIDE CORE WITH FINE RIDGE FEATURE	9159346
664.	METHOD FOR CONTROLLING CAMBER ON AIR BEARING SURFACE OF A SLIDER	9165573
665.	AIR BEARING AREA CONFIGURATION FOR REDUCING FLYING HEIGHT HUMP ACROSS A STROKE	9165579
666.	PATTERNED METAL LAYER TO CONTROL SOLDER CONNECTION BETWEEN LASER AND SUBMOUNT IN A MAGNETIC HEAD	9171562
667.	METHOD TO MAKE INTERFEROMETRIC TAPER WAVEGUIDE FOR HAMR LIGHT DELIVERY	9183854
668.	HAMR WRITER POLE LENGTH CHARACTERIZATION	9183859
669.	MAGNETIC WRITE POLE HAVING ENGINEERED RADIUS OF CURVATURE AND CHISEL ANGLE PROFILES	9190079
670.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC TRANSDUCER HAVING AN IMPROVED HARD BIAS SEED LAYER	9190080
671.	WAVEGUIDE WITH REFLECTIVE GRATING FOR LOCALIZED ENERGY INTENSITY	9190085
672.	AIR BEARING AREA CONFIGURATION FOR CONTAMINATING PARTICLE REMOVAL	9190089
673.	MULTI STEP LUBE BLOCKING AIR BEARING AREA CONFIGURATION	9190090
674.	SYSTEMS AND METHODS FOR USING WHITE LIGHT INTERFEROMETRY TO MEASURE UNDERCUT OF A BI-LAYER STRUCTURE	9194692
675.	METHOD FOR PROVIDING A MAGNETORESISTIVE ELEMENT HAVING SMALL CRITICAL DIMENSIONS	9196270
676.	METHOD FOR PROVIDING A MAGNETIC RECORDING TRANSDUCER USING A CHEMICAL BUFFER	9196283
677.	METHOD AND STRUCTURE FOR SOLDERING A LASER SUBMOUNT TO A MOUNTING FACE OF A SLIDER	9202478
678.	DOUBLE PATTERNING HARD MASK FOR DAMASCENE PERPENDICULAR MAGNETIC RECORDING (PMR) WRITER	9202480
679.	METHOD OF MAKING AN ULTRA-SHARP TIP MODE CONVERTER FOR A HAMR HEAD	9202493
680.	SYSTEMS AND METHODS FOR FORMING MEMS ASSEMBLIES INCORPORATING GETTERS	9212051
681.	METHODS FOR PROVIDING RUN TO RUN PROCESS CONTROL USING A DYNAMIC TUNER	9213322
682.	MAGNETIC WRITER HAVING A GRADIENT IN SATURATION MAGNETIZATION OF THE SHIELDS	9214165

No.	Title	Patent /Application Number
683.	GRADIENT WRITE GAP FOR PERPENDICULAR MAGNETIC RECORDING WRITER	9214166
684.	METHOD AND SYSTEM FOR PROVIDING A MAGNETIC TRANSDUCER HAVING IMPROVED SHIELD-TO-SHIELD SPACING	9214168
685.	MAGNETIC RECORDING READ TRANSDUCER HAVING A LAMINATED FREE LAYER	9214169
686.	MAGNETIC READ HEAD WITH ANTIFERROMAGNETIC LAYER	9214172
687.	MAGNETIC SHIELD FOR MAGNETIC RECORDING HEAD	9230565
688.	SPIN TRANSFER TORQUE TUNNELING MAGNETORESISTIVE DEVICE HAVING A LAMINATED FREE LAYER WITH PERPENDICULAR MAGNETIC ANISOTROPY	9236560
689.	METHOD FOR PROVIDING AN ENERGY ASSISTED MAGNETIC RECORDING HEAD HAVING A LASER INTEGRALLY MOUNTED TO THE SLIDER	9245543
690.	SHORT YOKE LENGTH COILS FOR MAGNETIC HEADS IN DISK DRIVES	9245545
691.	MAGNETIC RECORDING WRITER WITH A COMPOSITE MAIN POLE	9245562
692.	WRITE HEAD WITH VARIABLE SIDE SHIELD GAPS	9251813
693.	METHOD AND SYSTEM FOR EXPOSING PHOTORESIST IN A MICROELECTRIC DEVICE	12/146,370
694.	DAMASCENE COIL PROCESSES AND STRUCTURES	12/466,353
695.	RUTHENIUM HARD MASKS FOR FABRICATING DAMASCENE WRITE POLES	12/535,645
696.	APPARATUS AND METHOD FOR BLENDING SLIDER EDGES	12/621,459
697.	METHODS FOR FORMING MAGNETIC RECORDING POLES INCLUDING PLATING SEED LAYERS HAVING UNIFORM DEPOSITION	13/044,712
698.	METHODS FOR NULLIFYING PROCESS BIAS DURING FABRICATION OF AN ELECTRICAL LAP GUIDE AND A FEATURE	13/332,194
699.	METHODS FOR USING ANTI-REFLECTIVE COATING TO IMPROVE CRITICAL DIMENSION UNIFORMITY	13/361,547
700.	METHOD OF ELECTROPLATING IRON-COBALT ALLOY FILMS USING PULSED ELECTROPLATING METHODS	13/423,009
701.	METHODS FOR IMPROVING ADHESION ON DIELECTRIC SUBSTRATES	13/480,278
702.	METHODS FOR CHARACTERIZING CARBON OVERCOAT	13/490,214
703.	MAGNETIC RECORDING TRANSDUCER	13/535,828
704.	METHOD FOR PRODUCING MAGNETIC RECORDING SENSOR WITH AFM EXCHANGE COUPLED SHIELD	13/607,624

No.	Title	Patent /Application Number
705.	SYSTEMS AND METHODS FOR SHAPING LEADS OF ELECTRONIC LAPPING GUIDES TO REDUCE CALIBRATION ERROR	13/631,802
706.	PERPENDICULAR MAGNETIC RECORDING WRITE HEAD	13/631,808
707.	METHOD FOR PROVIDING AN IMPROVED MAGNETORESISTIVE STRUCTURE UTILIZING AN OXIDATION BUFFER LAYER	13/657,479
708.	METHOD AND APPARATUS FOR ATTACHING A LASER DIODE AND A SLIDER IN AN ENERGY ASSISTED MAGNETIC RECORDING HEAD	13/664,271
709.	SYSTEM FOR PROVIDING AN IMPROVED HARD BIAS STRUCTURE	13/691,591
710.	METHOD FOR COMPENSATING FOR PHASE VARIATIONS IN AN INTERFEROMETRIC TAPERED WAVEGUIDE IN A HEAT ASSISTED MAGNETIC RECORDING HEAD	13/756,379
711.	SYSTEMS AND METHODS FOR CONTROLLING MAGNETIC INTERLAYER COUPLING STRENGTH IN MAGNETIC SENSORS	13/761,450
712.	METHOD AND SYSTEM FOR PROVIDING AN ANTIFERROMAGNETICALLY COUPLED WRITER	13/769,951
713.	SYSTEMS AND METHODS FOR MONITORING THE POWER OF A LIGHT SOURCE UTILIZED IN ENERGY-ASSISTED MAGNETIC RECORDING	13/797,266
714.	INVERSE TAPERED WAVEGUIDE FOR USE IN A HEAT ASSISTED MAGNETIC RECORDING HEAD	13/797,268
715.	METHOD AND SYSTEM FOR IMPROVING OPTICAL PERFORMANCE IN A HEAT ASSISTED MAGNETIC RECORDING TRANSDUCER USING AN OXIDE ETCH PROCESS	13/799,122
716.	SHIELDED WRITE POLE FOR HARD DISK DRIVE	13/898,160
717.	METHOD AND SYSTEM TO ENHANCE UNIFORMITY OF CRITICAL DIMENSIONS ON A WAFER	13/909,774
718.	RECORDING READ HEADS WITH A MULTI-LAYER AFM LAYER METHODS AND APPARATUSES	13/923,991
719.	ORGANIC ADDITIVE METHOD AND SYSTEM FOR COPPER ELECTROPLATING	13/924,521
720.	METHOD FOR PROVIDING AN IMPROVED AFM READER SHIELD	13/927,007
721.	MULTIPLE SENSOR ARRAY USABLE IN TWO-DIMENSIONAL MAGNETIC RECORDING	13/928,799
722.	METHOD FOR MAKING ULTRA-NARROW READ SENSOR AND READ TRANSDUCER DEVICE RESULTING THEREFROM	13/929,633
723.	PROCESS FOR MAKING PMR WRITER WITH CONSTANT SIDE WALL ANGLE	13/929,705

No.	Title	Patent /Application Number
724.	ELECTRONIC LAPPING GUIDE WITH MECHANICAL LAPPING RESISTANCE CORRECTION	13/930,282
725.	MAGNETIC TUNNEL JUNCTION (MTJ) WITH A MAGNESIUM OXIDE TUNNEL BARRIER	13/954,766
726.	METHOD TO FABRICATE TUNNELING MAGNETIC RECORDING HEADS WITH EXTENDED PINNED LAYER	13/963,328
727.	IMPROVED POLISHING SLURRIES FOR PERFORMING CHEMICAL MECHANICAL PLANARIZATION AND METHODS OF USE	13/970,445
728.	METHOD OF FORMING A FULLY WRAPPED-AROUND SHIELDED PMR WRITER POLE	13/972,002
729.	ELECTRICAL CONNECTION ARRANGEMENT FOR A MUTLIPLE SENSOR ARRAY USABLE IN TWO-DIMENSIONAL MAGNETIC RECORDING	14/046,771
730.	PROCESS FOR MAKING PMR WRITER WITH NON-CONFORMAL SIDE GAPS	14/046,790
731.	MAGNETIC RECORDING WRITE TRANSDUCER HAVING AN IMPROVED SIDEWALL ANGLE PROFILE	14/051,359
732.	PROCESS FOR FABRICATING HARD DISK DRIVE WRITER COIL STRUCTURE	14/052,996
733.	METHOD FOR PROVIDING A HEAT ASSISTED MAGNETIC RECORDING TRANSDUCER HAVING PROTECTIVE PADS	14/054,762
734.	ULTRA-SHORT YOKE LENGTH WRITER	14/054,924
735.	BOND PAD CONFIGURATIONS FOR MAGNETIC RECORDING HEAD SLIDER	14/055,851
736.	TEST STRUCTURES FOR MEASURING NEAR FIELD TRANSDUCER DISC LENGTH	14/096,381
737.	METHOD FOR FABRICATING A MAGNETIC WRITER HAVING A GRADIENT SIDE GAP	14/135,250
738.	METHODS AND SYSTEMS OF TIME-BASED EWMA CONTROLLERS	14/168,995
739.	METHOD FOR PROVIDING A MAGNETIC RECORDING TRANSDUCER POLE HAVING A SEAMLESS POLE TIP	14/187,726
740.	SYSTEMS AND METHODS FOR ACHIEVING HIGH THROUGHPUT ATTACHMENT OF LASERS AND TARGET COMPONENTS	14/216,458
741.	METHOD FOR FABRICATING A MAGNETIC WRITER USING MULTIPLE ETCHES	14/229,297
742.	METHODS AND SYSTEMS OF ADJUSTING TILT USING MAGNETIC ERASE WIDTH FEEDBACK	14/276,111
743.	CONTACTLESS SLIDER BAR MANUFACTURING FIXTURES	14/276,254
744.	METHOD FOR FABRICATING A MAGNETIC WRITER USING MULTIPLE ETCHES OF DAMASCENE MATERIALS	14/280,342

No.	Title	Patent /Application Number
745.	ELECTRICAL LAPPING GUIDE FOR DIMENSIONAL CONTROL OF BACK SIDE OF HEAT ASSISTED MAGNETIC RECORDING DEVICE	14/287,586
746.	BUILT-IN WEDGE DETECTOR FOR ACCURATE ABS TILT GRIND AND SLICING TARGETING	14/293,970
747.	MULTI BAR-LAPPING RING WITH ANGLE ADJUSTMENT AND VACUUM RETENTION	14/297,928
748.	SLIDER HAVING SHOCK AND PARTICLE RESISTANCE	14/307,067
749.	METHOD FOR FABRICATING A MAGNETIC WRITE POLE HAVING A LEADING EDGE BEVEL	14/307,174
750.	SYSTEMS AND METHODS FOR CONTROLLING SOFT BIAS THICKNESS FOR TUNNEL MAGNETORESISTANCE READERS	14/308,366
751.	MAGNETIC SENSOR WITH THIN CAPPING LAYER	14/308,421
752.	DETECTING THICKNESS VARIATION AND QUANTITATIVE DEPTH UTILIZING SCANNING ELECTRON MICROSCOPY WITH A SURFACE PROFILER	14/310,294
753.	METHOD FOR FABRICATING A MAGNETIC WRITER HAVING A NONCONFORMAL SIDE GAP	14/311,233
754.	METHODS FOR CONTROLLING STRAY FIELDS OF MAGNETIC FEATURES USING MAGNETO-ELASTIC ANISOTROPY	14/312,317
755.	SYSTEM AND METHOD FOR PROVIDING A PROTECTIVE LAYER HAVING A GRADED INTERMEDIATE LAYER	14/313,550
756.	PRE-AMPLIFIER CARTRIDGE FOR TEST EQUIPMENT OF HEAD GIMBAL ASSEMBLY	14/313,842
757.	SYSTEM AND METHOD FOR IMPROVED THERMAL CCT TEST CAPABILITY	14/335,759
758.	METHOD AND APPARATUS FOR BONDING CHIP ON SLIDER	14/336,253
759.	ROW BAR LAPPING MACHINE	14/469,956
760.	PROCESS FOR CMP WITH LARGE FEATURE SIZE VARIATION	14/481,893
761.	MULTICOATED SOLDER-JETTING CAPILLARY TIP	14/492,228
762.	BONDING TOOL AND METHOD FOR HIGH ACCURACY CHIP-TO-CHIP BONDING	14/498,664
763.	SLIDER ASSEMBLY AND METHOD OF MANUFACTURING SAME	14/526,207
764.	OPTICAL CHARACTER RECOGNITION USING MULTIPLE IMAGE ANGLES FOR A DATA STORAGE SYSTEM	14/540,892
765.	METHOD AND SYSTEM FOR PROVIDING A READ TRANSDUCER HAVING IMPROVED PINNING OF THE PINNED LAYER AT HIGHER RECORDING DENSITIES	14/556,411

No.	Title	Patent /Application Number
766.	LAPPING PLATES EMPLOYING PLATEN PORTIONS REMOVABLY ATTACHED TO BACKING PLATES WITH STOPPERS, AND RELATED METHODS	14/557,149
767.	APPARATUSES AND METHODS FOR PROVIDING THIN SHIELDS IN A MULTIPLE SENSOR ARRAY	14/557,941
768.	METHOD OF DETERMINING HEAD SENSITIVITY FROM LAPPING	14/560,268
769.	STRIPE HEIGHT LAPPING CONTROL STRUCTURES FOR A MULTIPLE SENSOR ARRAY	14/560,731
770.	ELECTRONIC LAPPING GUIDES WITH SHIELD-LIKE FEATURES FOR IMPROVING LAPPING CONTROL	14/571,665
771.	VCSEL ARRAY FOR USE IN AN INTEGRATED SLIDER ASSEMBLY	14/574,177
772.	METHOD AND SYSTEM FOR PROVIDING AN NFT USING A LIFT-OFF PROCESS	14/574,188
773.	A MAGNETIC WRITER HAVING A DUAL SIDE GAP	14/574,250
774.	METHOD FOR PERFORMING LIFT-OFF FOR METALLIZATION	14/575,506
775.	MAGNETIC READ TRANSDUCER HAVING MIRRORED ANTIFERROMAGNETICALLY COUPLED SHIELDS	14/577,961
776.	METHOD AND SYSTEM FOR PROVIDING AN NFT USING A LIFT-OFF PROCESS	14/578,227
777.	METHOD FOR FABRICATING A MAGNETIC WRITER HAVING HALF SHIELDS	14/578,449
778.	METHOD AND SYSTEM FOR PROVIDING A READ TRANSDUCER HAVING SYMMETRIC ANTIFERROMAGNETICALLY COUPLED SHIELDS	14/578,450
779.	APPARATUS AND METHOD HAVING TDMR READER TO READER SHUNTS	14/579,785
780.	TEST MECHANISM AND METHOD OF USE THEREOF FOR MEASURING TILT OF A WORK PIECE	14/582,080
781.	HEAT ASSISTED MAGNETIC RECORDING WRITER HAVING DIFFUSION BARRIER(S)	14/582,902
782.	DYNAMIC MEASUREMENT OF POLE TIP RECESSION OF DUAL HEATER MAGNETIC RECORDING HEAD	14/584,965
783.	INTERFERING NEAR FIELD TRANSDUCER FOR ENERGY ASSISTED MAGNETIC RECORDING	14/609,580
784.	METHOD AND SYSTEM FOR PROVIDING A BIAS STRUCTURE FOR A TRANSDUCER HAVING DUAL FREE LAYER READ SENSOR	14/621,712
785.	METHOD TO FABRICATE A MAGNETIC HEAD INCLUDING ION MILLING OF READ GAP USING DUAL LAYER HARD MASK	14/635,953
786.	MAGNETORESISTIVE SENSOR FOR A MAGNETIC STORAGE SYSTEM READ HEAD, AND FABRICATION METHOD THEREOF	14/657,420

No.	Title	Patent /Application Number
787.	SLIDER BACK SIDE ETCHING TO INCREASE SHEAR STRENGTH BETWEEN SUSPENSION AND SLIDER	14/664,425
788.	SYSTEM AND METHOD FOR MAGNETIC TRANSDUCERS HAVING MULTIPLE SENSORS AND AFC SHIELDS	14/667,433
789.	MAGNETIC WRITER HAVING A GRADIENT IN SATURATION MAGNETIZATION OF THE SHIELDS AND RETURN POLE	14/667,506
790.	DUAL FREE LAYER MAGNETIC READER HAVING A REAR BIAS STRUCTURE INCLUDING A SOFT BIAS LAYER	14/670,340
791.	METHOD AND SYSTEM FOR INCREASING SIGNAL-TO-NOISE IN OPTICAL POWER MONITORING FOR HEAT ASSISTED MAGNETIC RECORDING HEADS	14/671,676
792.	APPARATUS FOR RETAINING A SAMPLE DURING TESTING IN FABRICATION OF A MAGNETIC RECORDING DEVICE	14/671,759
793.	BAR COVER HAVING WIRE HOLDER SLOTS TO PREVENT BAR SCRAMBLE	14/671,816
794.	FLAT NFT FOR HEAT ASSISTED MAGNETIC RECORDING	14/674,509
795.	DUAL FREE LAYER MAGNETIC READER HAVING A REAR BIAS STRUCTURE HAVING A HIGH ASPECT RATIO	14/674,899
796.	DATA STORAGE DEVICE EMPLOYING MIRRORED CROSS-TRACK PROFILES FOR TOP AND BOTTOM DISK SURFACES	14/678,816
797.	METHOD OF CALIBRATING A MAGNETIC TRACK WIDTH FOR A PLURALITY OF SLIDERS	14/728,696
798.	SHINGLE MAGNETIC WRITER HAVING A LOW SIDEWALL ANGLE POLE	14/729,403
799.	METHOD AND SYSTEM FOR IMPROVING FIELD STITCHING ERROR OF PHOTOLITHOGRAPHY PATTERNED WAFER BY OPTIMIZING SCAN SPEED	14/736,635
800.	TUNNEL MAGNETORESISTANCE READ HEAD WITH NARROW SHIELD-TO-SHIELD SPACING	14/740,027
801.	MANUFACTURING APPARATUS FOR CURING SLIDER ADHESIVE OF A DATA STORAGE DEVICE	14/747,298
802.	SYSTEMS AND DEVICES FOR ACHIEVING HIGH THROUGHPUT ATTACHMENT AND SUB-MICRON ALIGNMENT OF COMPONENTS	14/748,607
803.	MAGNETIC READER HAVING A CRYSTAL DECOUPLING STRUCTURE	14/749,260
804.	METHOD FOR FABRICATING A MAGNETIC RECORDING DEVICE HAVING A HIGH ASPECT RATIO STRUCTURE	14/750,239

No.	Title	Patent /Application Number
805.	HEAT ASSISTED MAGNETIC RECORDING WRITER HAVING INTEGRATED POLARIZATION ROTATION WAVEGUIDES	14/752,482
806.	LAPPING RING ASSEMBLIES EMPLOYING SLOT HEATERS TO DEBOND ADHESIVE-SECURED SUBSTRATES FROM LAPPING RING BODIES	14/752,598
807.	MAGNETIC READER HAVING A NONMAGNETIC INSERTION LAYER FOR THE PINNING LAYER	14/752,659
808.	METHOD FOR FABRICATING A MAGNETIC WRITE POLE HAVING AN IMPROVED SIDEWALL ANGLE PROFILE	14/753,630
809.	METHOD AND SYSTEM FOR AUTOMATICALLY EXTRACTING PARAMETERS FROM SCANNING PROBE MICROSCOPE DATA	14/754,490
810.	MAGNETIC READER WITH LAMINATED PERPENDICULAR ANISOTROPY FREE LAYER	14/833,977
811.	HEATED AFM LAYER DEPOSITION AND COOLING PROCESS FOR TMR MAGNETIC RECORDING SENSOR WITH HIGH PINNING FIELD	14/844,312
812.	METHOD FOR FABRICATING A MAGNETIC WRITER HAVING AN ASYMMETRIC GAP AND SHIELDS	14/847,634
813.	MICROMETER SCALE COMPONENTS	14/853,531
814.	METHOD AND APPARATUS FOR CONTROLLING CAMBER ON AIR BEARING SURFACE OF A SLIDER	14/853,664
815.	FREE LAYER MAGNETIC READER THAT MAY HAVE A REDUCED SHIELD-TO-SHIELD SPACING	14/862,895
816.	DIFFERENTIAL DUAL FREE LAYER MAGNETIC READER	14/863,309
817.	METHOD AND SYSTEM FOR PROVIDING A HAMR WRITER HAVING IMPROVED OPTICAL EFFICIENCY	14/864,665
818.	HEAT ASSISTED MAGNETIC RECORDING WRITE APPARATUS HAVING A DIELECTRIC GAP	14/864,716
819.	FREE-STANDING REFLECTOR USABLE IN HEAT ASSISTED MAGNETIC RECORDING TECHNOLOGY	14/869,606
820.	METHOD FOR FABRICATING A MAGNETIC WRITER HAVING A GRADIENT SATURATION MAGNETIZATION OF THE SHIELDS	14/871,553
821.	SHINGLE MAGNETIC WRITER HAVING NONCONFORMAL SHIELDS	14/871,763
822.	TEST STRUCTURE FOR A MAGNETIC READ SENSOR	14/871,844
823.	WAVEGUIDE WITH REFLECTIVE GRATING FOR LOCALIZED ENERGY INTENSITY	14/886,870
824.	METHOD TO MAKE INTERFEROMETRIC TAPER WAVEGUIDE FOR HAMR LIGHT DELIVERY	14/887,035
825.	METHOD FOR PROVIDING A MAGNETIC RECORDING TRANSDUCER USING A CHEMICAL BUFFER	14/929,754

No.	Title	Patent /Application Number
826.	MAGNETIC HEAD HAVING A READER OVERCOAT WITH DLC AND A RECESSED WRITER OVERCOAT WITHOUT DLC	14/934,453
827.	METHOD AND SYSTEM FOR PROVIDING A HAMR WRITER INCLUDING A MULTI-MODE INTERFERENCE DEVICE	14/936,967
828.	SYSTEMS AND METHODS FOR USING WHITE LIGHT INTERFEROMETRY TO MEASURE UNDERCUT OF A BI-LAYER STRUCTURE	14/937,971
829.	METHOD FOR PROVIDING A MAGNETIC RECORDING WRITE APPARATUS HAVING A SEAMLESS POLE	14/939,934
830.	MAGNETIC READ HEAD WITH ANTIFERROMAGNETIC LAYER	14/943,211
831.	SYSTEMS AND METHODS FOR FORMING MEMS ASSEMBLIES INCORPORATING GETTERS	14/943,300
832.	SYSTEMS AND METHODS FOR FORMING MEMS ASSEMBLIES INCORPORATING GETTERS	14/943,391
833.	METHOD AND SYSTEM FOR FABRICATING HIGH JUNCTION ANGLE READ SENSORS	14/949,155
834.	MAGNETIC READ APPARATUS HAVING AN IMPROVED READ SENSOR ISOLATION CIRCUIT	14/951,411
835.	MAGNETIC RECORDING WRITE APPARATUS HAVING A STEPPED CONFORMAL TRAILING SHIELD	14/953,982
836.	SHORT YOKE LENGTH WRITER HAVING ASSIST COILS	14/954,293
837.	METHOD FOR PROVIDING A MULTILAYER AFM LAYER IN A READ SENSOR	14/955,375
838.	METHOD AND SYSTEM FOR DETECTING HOTSPOTS FOR PHOTOLITHOGRAPHICALLY-DEFINED DEVICES	14/955,904
839.	MAGNETIC WRITER HAVING CONVEX TRAILING SURFACE POLE AND CONFORMAL WRITE GAP	14/956,168
840.	MAGNETIC SHIELD FOR MAGNETIC RECORDING HEAD	14/981,830
841.	SPIN TRANSFER TORQUE TUNNELING MAGNETORESISTIVE DEVICE HAVING A LAMINATED FREE LAYER WITH PERPENDICULAR MAGNETIC ANISOTROPY	14/993,127
842.	PROCESS FOR MAKING PMR WRITER WITH CONSTANT SIDE WALL ANGLE	14/994,361
843.	METHOD AND SYSTEM FOR IMPROVING FIELD STITCHING ERROR OF PHOTOLITHOGRAPHY PATTERNED WAFER BY OPTIMIZING SCAN SPEED	62/152,753