

<b>PATENT ASSIGNMENT COVER SHEET</b>
--------------------------------------

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5241602

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

**CONVEYING PARTY DATA**

Name	Execution Date
BANK OF AMERICA, N.A.	11/15/2018

**RECEIVING PARTY DATA**

<b>Name:</b>	CABOT MICROELECTRONICS CORPORATION
<b>Street Address:</b>	870 NORTH COMMON DRIVE
<b>City:</b>	AURORA
<b>State/Country:</b>	ILLINOIS
<b>Postal Code:</b>	60504

**PROPERTY NUMBERS Total: 247**

Property Type	Number
Patent Number:	4954142
Patent Number:	5527423
Patent Number:	5858813
Patent Number:	5783489
Patent Number:	5958288
Patent Number:	5954997
Patent Number:	5759917
Patent Number:	6033596
Patent Number:	5980775
Patent Number:	6015506
Patent Number:	6068787
Patent Number:	6126853
Patent Number:	6083419
Patent Number:	6309560
Patent Number:	6689692
Patent Number:	6284151
Patent Number:	6294105
Patent Number:	6432828
Patent Number:	6062968
Patent Number:	6177026

PATENT

Property Type	Number
Patent Number:	6136711
Patent Number:	6533832
Patent Number:	6217416
Patent Number:	6063306
Patent Number:	6238469
Patent Number:	6375693
Patent Number:	6593239
Patent Number:	6395693
Patent Number:	6632377
Patent Number:	6347978
Patent Number:	6350393
Patent Number:	6293848
Patent Number:	6319096
Patent Number:	6348076
Patent Number:	6362104
Patent Number:	6316366
Patent Number:	6471884
Patent Number:	6409781
Patent Number:	6976905
Patent Number:	6646348
Patent Number:	6592776
Patent Number:	6582623
Patent Number:	6527817
Patent Number:	6855266
Patent Number:	6468137
Patent Number:	6362106
Patent Number:	6537134
Patent Number:	6461227
Patent Number:	6316365
Patent Number:	6872328
Patent Number:	6435947
Patent Number:	6383065
Patent Number:	6623331
Patent Number:	6447371
Patent Number:	6589100
Patent Number:	6805812
Patent Number:	6685540
Patent Number:	6527819

<b>Property Type</b>	<b>Number</b>
Patent Number:	6936542
Patent Number:	6705926
Patent Number:	6612911
Patent Number:	7004819
Patent Number:	6527622
Patent Number:	6776810
Patent Number:	6840843
Patent Number:	6682575
Patent Number:	6569350
Patent Number:	6853474
Patent Number:	6841479
Patent Number:	7677956
Patent Number:	6620037
Patent Number:	6541434
Patent Number:	7087187
Patent Number:	6974777
Patent Number:	6641630
Patent Number:	6925150
Patent Number:	6884729
Patent Number:	7021993
Patent Number:	6811474
Patent Number:	6812193
Patent Number:	6821897
Patent Number:	6936543
Patent Number:	6913517
Patent Number:	7435165
Patent Number:	6641632
Patent Number:	7093722
Patent Number:	6840971
Patent Number:	6867140
Patent Number:	6852632
Patent Number:	7071105
Patent Number:	6960120
Patent Number:	6832947
Patent Number:	6896591
Patent Number:	6830503
Patent Number:	7097541
Patent Number:	6953532

<b>Property Type</b>	<b>Number</b>
Patent Number:	7044836
Patent Number:	6767476
Patent Number:	6884156
Patent Number:	6997777
Patent Number:	6998166
Patent Number:	7442645
Patent Number:	7754098
Patent Number:	7160807
Patent Number:	7381648
Patent Number:	7485241
Patent Number:	7238618
Patent Number:	7195539
Patent Number:	6929983
Patent Number:	7317232
Patent Number:	6984588
Patent Number:	7264641
Patent Number:	7288021
Patent Number:	6984587
Application Number:	10754390
Patent Number:	7255810
Patent Number:	7317278
Patent Number:	6896593
Patent Number:	6899598
Patent Number:	6935931
Patent Number:	7001253
Patent Number:	7195544
Patent Number:	7059936
Patent Number:	7204742
Patent Number:	7274772
Patent Number:	7306637
Patent Number:	7277314
Patent Number:	7091604
Patent Number:	7438795
Patent Number:	7247567
Patent Number:	7198549
Patent Number:	7161247
Patent Number:	8075372
Patent Number:	7563383

<b>Property Type</b>	<b>Number</b>
Patent Number:	7037175
Patent Number:	8038752
Patent Number:	7524347
Patent Number:	7504044
Patent Number:	7354530
Patent Number:	7686994
Patent Number:	7456482
Patent Number:	7497938
Patent Number:	7311856
Patent Number:	7435161
Patent Number:	7427567
Patent Number:	7998335
Patent Number:	7267607
Patent Number:	8062096
Application Number:	11205428
Patent Number:	7316603
Patent Number:	7955519
Patent Number:	7447298
Patent Number:	7265055
Patent Number:	7311862
Patent Number:	7531105
Application Number:	11374238
Patent Number:	7732393
Application Number:	11387558
Patent Number:	7820067
Patent Number:	7585340
Patent Number:	7368066
Application Number:	11448205
Application Number:	11478004
Patent Number:	7294576
Patent Number:	7998228
Patent Number:	7501346
Application Number:	11491612
Patent Number:	7678700
Application Number:	11517909
Patent Number:	8057561
Application Number:	11591730
Patent Number:	7456107

Property Type	Number
Patent Number:	7837888
Patent Number:	7365013
Application Number:	11634576
Patent Number:	7582127
Patent Number:	7803203
Patent Number:	7776230
Patent Number:	7557566
Patent Number:	7699684
Patent Number:	7897061
Application Number:	11706929
Patent Number:	7542549
Application Number:	11800188
Patent Number:	7803711
Patent Number:	8008202
Application Number:	11892720
Application Number:	11895896
Application Number:	11937804
Application Number:	11960135
Patent Number:	7922926
Patent Number:	7955520
Patent Number:	7875469
Application Number:	12011435
Patent Number:	7998866
Application Number:	12052970
Application Number:	12069495
Application Number:	12126739
Application Number:	12170954
Application Number:	12221023
Application Number:	12224902
Application Number:	12226394
Application Number:	12234173
Application Number:	12234237
Application Number:	12239249
Application Number:	12309212
Application Number:	12311717
Application Number:	12312477
Application Number:	12317254
Patent Number:	7846842

<b>Property Type</b>	<b>Number</b>
Application Number:	12364937
Application Number:	12384161
Application Number:	12384266
Application Number:	12387506
Patent Number:	8101093
Application Number:	12455631
Application Number:	12462067
Application Number:	12462638
Application Number:	12476073
Application Number:	12584343
Application Number:	12630288
Application Number:	12631977
Application Number:	12670495
Application Number:	12673057
Application Number:	12676418
Application Number:	12761016
Application Number:	12762180
Application Number:	12764268
Application Number:	12807324
Application Number:	12837705
Application Number:	12838813
Application Number:	12854470
Application Number:	12952242
Application Number:	12971714
Application Number:	13004113
Application Number:	13087857
Application Number:	13133784
Application Number:	13133857
Application Number:	13139017
Application Number:	13139046
Application Number:	13167467
Application Number:	13210875
Application Number:	13237881
Application Number:	13258112
Application Number:	13351339
Application Number:	13379911
Patent Number:	D640057

**CORRESPONDENCE DATA****Fax Number:** (800)914-4240*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:** 8007130755**Email:** Michael.Violet@wolterskluwer.com, ecarrera@cahill.com**Correspondent Name:** CT CORPORATION**Address Line 1:** 4400 EASTON COMMONS WAY**Address Line 2:** SUITE 125**Address Line 4:** COLUMBUS, OHIO 43219**NAME OF SUBMITTER:** ELAINE CARRERA**SIGNATURE:** /Elaine Carrera/**DATE SIGNED:** 11/16/2018**Total Attachments: 63**

source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page1.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page2.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page3.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page4.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page5.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page6.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page7.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page8.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page9.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page10.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page11.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page12.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page13.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page14.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page15.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page16.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page17.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page18.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page19.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page20.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page21.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page22.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page23.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page24.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page25.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page26.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page27.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page28.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page29.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page30.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page31.tif  
source=Active\_109670451\_1\_Cabot - Patent Release - Reel 027727 Frame 0275#page32.tif





### RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**  
Bank of America, N.A.

Additional name(s) of conveying party(ies) attached?  Yes  No

**2. Name and address of receiving party(ies)**  
Name: Cabot Microelectronics Corporation  
Internal Address: \_\_\_\_\_  
Street Address: 870 North Common Drive  
City: Aurora  
State: Illinois  
Country: USA Zip: 60504

Additional name(s) & address(es) attached?  Yes  No

**3. Nature of conveyance/Execution Date(s):**  
Execution Date(s) November 15, 2018

Assignment  Merger  
 Security Agreement  Change of Name  
 Joint Research Agreement  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
 Other Release of Security Interest

**4. Application or patent number(s):**  This document is being filed together with a new application.

A. Patent Application No.(s)  
See Exhibit A

B. Patent No.(s)  
See Exhibit A

Additional numbers attached?  Yes  No

**5. Name and address to whom correspondence concerning document should be mailed:**  
Name: Elaine Carrera, Legal Assistant  
Internal Address: \_\_\_\_\_  
Street Address: c/o Cahill Gordon & Reindel LLP  
80 Pine Street  
City: New York  
State: NY Zip: 10005  
Phone Number: (212) 701-3365  
Docket Number: \_\_\_\_\_  
Email Address: ecarrera@cahill.com

**6. Total number of applications and patents involved:** 247

**7. Total fee (37 CFR 1.21(h) & 3.41) \$** \_\_\_\_\_

Authorized to be charged to deposit account  
 Enclosed  
 None required (government interest not affecting time)

**8. Payment Information**

Deposit Account Number \_\_\_\_\_  
Authorized User Name \_\_\_\_\_

**9. Signature:** Elaine Carrera November 15, 2018  
Signature Date

Elaine Carrera Total number of pages including cover sheet, attachments, and documents: 63  
Name of Person Signing

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

**NOTICE OF RELEASE OF SECURITY INTEREST IN PATENTS**

Dated as of November 15, 2018

United States Patent and Trademark Office

Ladies and Gentlemen:


The lien and security interest evidenced by that certain Notice of Security Interest in Patents, by and among **CABOT MICROELECTRONICS CORPORATION**, a Delaware corporation (the "Borrower"), and each Subsidiary of the Borrower party thereto, each having its chief executive office at 870 North Common Drive, Aurora, Illinois 60504 and **BANK OF AMERICA, N.A.**, as Administrative Agent (the "Administrative Agent") having an office located at 135 S. LaSalle Street, IL4-135-05-41, Chicago, Illinois 60603, which was duly recorded on February 16, 2012, at Reel/Frame 027727/0275 in the Patent Division of the United States Patent and Trademark Office, and any other right, title or interest granted to the Administrative Agent in the patents and patent applications set forth on Exhibit A attached hereto is hereby terminated, cancelled and released, without representation or warranty, and the Administrative Agent hereby re-assigns to the Borrower any right, title or interest it may have in or to any of the patents and patent applications set forth on Exhibit A.

[Signature page follows.]

AGENT:

Acknowledged and accepted:

BANK OF AMERICA, N.A., as Administrative  
Agent

By:   
Name: Felicia Brinson  
Title: Assistant Vice President

Notice of Release of Security Interest in Patents  
Signature Page

**PATENT**  
**REEL: 047587 FRAME: 0130**



**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

FEBRUARY 21, 2012

PTAS

TERRY L. WITCHER, PARALEGAL  
201 N. TRYON STREET, SUITE 3000  
MCGUIREWOODS LLP  
CHARLOTTE, NC 28202

**501823558**

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 02/16/2012

REEL/FRAME: 027727/0275  
NUMBER OF PAGES: 51

BRIEF: NOTICE OF SECURITY INTEREST IN PATENTS

ASSIGNOR:

CABOT MICROELECTRONICS CORPORATION      DOC DATE: 02/13/2012

ASSIGNEE:

BANK OF AMERICA, N.A., AS  
ADMINISTRATIVE AGENT  
135 S. LASALLE STREET  
IL4-135-05-41  
CHICAGO, ILLINOIS 60603

APPLICATION NUMBER: 07285435

FILING DATE: 03/07/1989

PATENT NUMBER: 4954142

ISSUE DATE: 09/04/1990

TITLE: METHOD OF CHEMICAL-MECHANICAL POLISHING AN ELECTRONIC COMPONENT  
SUBSTRATE AND POLISHING SLURRY THEREFOR

APPLICATION NUMBER: 08319213

FILING DATE: 10/06/1994

PATENT NUMBER: 5527423

ISSUE DATE: 06/18/1996

TITLE: CHEMICAL MECHANICAL POLISHING SLURRY FOR METAL LAYERS

APPLICATION NUMBER: 08644509

FILING DATE: 05/10/1996

PATENT NUMBER: 5858813

ISSUE DATE: 01/12/1999

TITLE: CHEMICAL MECHANICAL POLISHING SLURRY FOR METAL LAYERS AND FILMS

APPLICATION NUMBER: 08718937 FILING DATE: 09/24/1996  
PATENT NUMBER: 5783489 ISSUE DATE: 07/21/1998  
TITLE: MULTI-OXIDIZER SLURRY FOR CHEMICAL MECHANICAL POLISHING

APPLICATION NUMBER: 08753482 FILING DATE: 11/26/1996  
PATENT NUMBER: 5958288 ISSUE DATE: 09/28/1999  
TITLE: COMPOSITION AND SLURRY USEFUL FOR METAL CMP

APPLICATION NUMBER: 08763705 FILING DATE: 12/09/1996  
PATENT NUMBER: 5954997 ISSUE DATE: 09/21/1999  
TITLE: CHEMICAL MECHANICAL POLISHING SLURRY USEFUL FOR COPPER  
SUBSTRATES

APPLICATION NUMBER: 08774488 FILING DATE: 12/30/1996  
PATENT NUMBER: 5759917 ISSUE DATE: 06/02/1998  
TITLE: COMPOSITION FOR OXIDE CMP

APPLICATION NUMBER: 08800562 FILING DATE: 02/18/1997  
PATENT NUMBER: 6033596 ISSUE DATE: 03/07/2000  
TITLE: MULTI-OXIDIZER SLURRY FOR CHEMICAL MECHANICAL POLISHING

APPLICATION NUMBER: 08827918 FILING DATE: 04/08/1997  
PATENT NUMBER: 5980775 ISSUE DATE: 11/09/1999  
TITLE: COMPOSITION AND SLURRY USEFUL FOR METAL CMP

APPLICATION NUMBER: 08844195 FILING DATE: 04/18/1997  
PATENT NUMBER: 6015506 ISSUE DATE: 01/18/2000  
TITLE: COMPOSITION AND METHOD FOR POLISHING RIGID DISKS

APPLICATION NUMBER: 08891468 FILING DATE: 07/11/1997  
PATENT NUMBER: 6068787 ISSUE DATE: 05/30/2000  
TITLE: COMPOSITION AND SLURRY USEFUL FOR METAL CMP

APPLICATION NUMBER: 08891649 FILING DATE: 07/11/1997  
PATENT NUMBER: 6126853 ISSUE DATE: 10/03/2000  
TITLE: CHEMICAL MECHANICAL POLISHING SLURRY USEFUL FOR COPPER  
SUBSTRATES

APPLICATION NUMBER: 08901803 FILING DATE: 07/28/1997  
PATENT NUMBER: 6083419 ISSUE DATE: 07/04/2000  
TITLE: POLISHING COMPOSITION INCLUDING AN INHIBITOR OF TUNGSTEN ETCHING

APPLICATION NUMBER: 08944036 FILING DATE: 09/29/1997  
PATENT NUMBER: 6309560 ISSUE DATE: 10/30/2001  
TITLE: CHEMICAL MECHANICAL POLISHING SLURRY USEFUL FOR COPPER  
SUBSTRATES

APPLICATION NUMBER: 08994894 FILING DATE: 12/19/1997  
PATENT NUMBER: 6689692 ISSUE DATE: 02/10/2004  
TITLE: COMPOSITION FOR OXIDE CMP

APPLICATION NUMBER: 08997289 FILING DATE: 12/23/1997  
PATENT NUMBER: 6284151 ISSUE DATE: 09/04/2001  
TITLE: CHEMICAL MECHANICAL POLISHING SLURRY FOR TUNGSTEN

APPLICATION NUMBER: 08997290 FILING DATE: 12/23/1997  
PATENT NUMBER: 6294105 ISSUE DATE: 09/25/2001  
TITLE: CHEMICAL MECHANICAL POLISHING SLURRY AND METHOD FOR POLISHING  
METAL/-OXIDE LAYERS

APPLICATION NUMBER: 09040630 FILING DATE: 03/18/1998  
PATENT NUMBER: 6432828 ISSUE DATE: 08/13/2002  
TITLE: CHEMICAL MECHANICAL POLISHING SLURRY USEFUL FOR COPPER  
SUBSTRATES

APPLICATION NUMBER: 09062327 FILING DATE: 04/17/1998  
PATENT NUMBER: 6062968 ISSUE DATE: 05/16/2000  
TITLE: POLISHING PAD FOR A SEMICONDUCTOR SUBSTRATE

APPLICATION NUMBER: 09084630 FILING DATE: 05/26/1998  
PATENT NUMBER: 6177026 ISSUE DATE: 01/23/2001  
TITLE: CMP SLURRY CONTAINING A SOLID CATALYST

APPLICATION NUMBER: 09086659 FILING DATE: 05/29/1998  
PATENT NUMBER: 6136711 ISSUE DATE: 10/24/2000  
TITLE: POLISHING COMPOSITION INCLUDING AN INHIBITOR OF TUNGSTEN ETCHING

APPLICATION NUMBER: 09105060 FILING DATE: 06/26/1998  
PATENT NUMBER: 6533832 ISSUE DATE: 03/18/2003  
TITLE: CHEMICAL MECHANICAL POLISHING SLURRY AND METHOD FOR USING SAME

APPLICATION NUMBER: 09105065 FILING DATE: 06/26/1998  
PATENT NUMBER: 6217416 ISSUE DATE: 04/17/2001  
TITLE: CHEMICAL MECHANICAL POLISHING SLURRY USEFUL FOR COPPER/TANTALUM  
SUBSTRATES

APPLICATION NUMBER: 09105555 FILING DATE: 06/26/1998  
PATENT NUMBER: 6063306 ISSUE DATE: 05/16/2000  
TITLE: CHEMICAL MECHANICAL POLISHING SLURRY USEFUL FOR COPPER/TANTALUM  
SUBSTRATE

APPLICATION NUMBER: 09226191 FILING DATE: 01/07/1999  
PATENT NUMBER: 6238469 ISSUE DATE: 05/29/2001  
TITLE: DUAL-VALENT RARE EARTH ADDITIVES TO POLISHING SLURRIES

APPLICATION NUMBER: 09307123 FILING DATE: 05/07/1999  
PATENT NUMBER: 6375693 ISSUE DATE: 04/23/2002  
TITLE: CHEMICAL-MECHANICAL PLANARIZATION OF BARRIERS OR LINERS FOR  
COPPER METALLURGY

APPLICATION NUMBER: 09366588 FILING DATE: 08/04/1999  
PATENT NUMBER: 6593239 ISSUE DATE: 07/15/2003  
TITLE: CHEMICAL MECHANICAL POLISHING METHOD USEFUL FOR COPPER  
SUBSTRATES

APPLICATION NUMBER: 09405249 FILING DATE: 09/27/1999  
PATENT NUMBER: 6395693 ISSUE DATE: 05/28/2002  
TITLE: CLEANING SOLUTION FOR SEMICONDUCTOR SURFACES FOLLOWING  
CHEMICAL-MECHANICAL POLISHING

APPLICATION NUMBER: 09409798 FILING DATE: 09/30/1999  
PATENT NUMBER: 6632377 ISSUE DATE: 10/14/2003  
TITLE: CHEMICAL-MECHANICAL PLANARIZATION OF METALLURGY

APPLICATION NUMBER: 09425473 FILING DATE: 10/22/1999  
PATENT NUMBER: 6347978 ISSUE DATE: 02/19/2002  
TITLE: COMPOSITION AND METHOD FOR POLISHING RIGID DISKS

APPLICATION NUMBER: 09428965 FILING DATE: 11/04/1999  
PATENT NUMBER: 6350393 ISSUE DATE: 02/26/2002  
TITLE: USE OF CSOH IN A DIELECTRIC CMP SLURRY

APPLICATION NUMBER: 09440401 FILING DATE: 11/15/1999  
PATENT NUMBER: 6293848 ISSUE DATE: 09/25/2001  
TITLE: COMPOSITION AND METHOD FOR PLANARIZING SURFACES

APPLICATION NUMBER: 09440525 FILING DATE: 11/15/1999  
PATENT NUMBER: 6319096 ISSUE DATE: 11/20/2001  
TITLE: COMPOSITION AND METHOD FOR PLANARIZING SURFACES

APPLICATION NUMBER: 09472961 FILING DATE: 12/28/1999  
PATENT NUMBER: 6348076 ISSUE DATE: 02/19/2002  
TITLE: SLURRY FOR MECHANICAL POLISHING (CMP) OF METALS AND USE THEREOF

APPLICATION NUMBER: 09501221 FILING DATE: 02/10/2000  
PATENT NUMBER: 6362104 ISSUE DATE: 03/26/2002  
TITLE: METHOD FOR POLISHING A SUBSTRATE USING A CMP SLURRY

APPLICATION NUMBER: 09503996 FILING DATE: 02/14/2000  
PATENT NUMBER: 6316366 ISSUE DATE: 11/13/2001  
TITLE: METHOD OF POLISHING USING MULTI-OXIDIZER SLURRY

APPLICATION NUMBER: 09542774 FILING DATE: 04/04/2000  
PATENT NUMBER: 6471884 ISSUE DATE: 10/29/2002  
TITLE: METHOD FOR POLISHING A MEMORY OR RIGID DISK WITH AN AMINO  
ACID-CONTAINING COMPOSITION

APPLICATION NUMBER: 09562298 FILING DATE: 05/01/2000  
PATENT NUMBER: 6409781 ISSUE DATE: 06/25/2002  
TITLE: POLISHING SLURRIES FOR COPPER AND ASSOCIATED MATERIALS

APPLICATION NUMBER: 09595227 FILING DATE: 06/16/2000  
PATENT NUMBER: 6976905 ISSUE DATE: 12/20/2005  
TITLE: METHOD FOR POLISHING A MEMORY OR RIGID DISK WITH A PHOSPHATE  
ION-CONTAINING POLISHING SYSTEM

APPLICATION NUMBER: 09609480 FILING DATE: 07/05/2000  
PATENT NUMBER: 6646348 ISSUE DATE: 11/11/2003  
TITLE: SILANE CONTAINING POLISHING COMPOSITION FOR CMP

APPLICATION NUMBER: 09609882 FILING DATE: 07/05/2000  
PATENT NUMBER: 6592776 ISSUE DATE: 07/15/2003  
TITLE: POLISHING COMPOSITION FOR METAL CMP

APPLICATION NUMBER: 09609884 FILING DATE: 07/05/2000  
PATENT NUMBER: 6582623 ISSUE DATE: 06/24/2003  
TITLE: CMP COMPOSITION CONTAINING SILANE MODIFIED ABRASIVE PARTICLES

APPLICATION NUMBER: 09625142 FILING DATE: 07/25/2000  
PATENT NUMBER: 6527817 ISSUE DATE: 03/04/2003  
TITLE: COMPOSITION AND METHOD FOR PLANARIZING SURFACES

APPLICATION NUMBER: 09636246 FILING DATE: 08/10/2000  
PATENT NUMBER: 6855266 ISSUE DATE: 02/15/2005  
TITLE: POLISHING SYSTEM WITH STOPPING COMPOUND AND METHOD OF ITS USE



APPLICATION NUMBER: 09656665 FILING DATE: 09/07/2000  
PATENT NUMBER: 6468137 ISSUE DATE: 10/22/2002  
TITLE: METHOD FOR POLISHING A MEMORY OR RIGID DISK WITH AN OXIDIZED  
HALIDE-CONTAINING POLISHING SYSTEM

APPLICATION NUMBER: 09660847 FILING DATE: 09/13/2000  
PATENT NUMBER: 6362106 ISSUE DATE: 03/26/2002  
TITLE: CHEMICAL MECHANICAL POLISHING METHOD USEFUL FOR COPPER  
SUBSTRATES

APPLICATION NUMBER: 09682662 FILING DATE: 10/03/2001  
PATENT NUMBER: 6537134 ISSUE DATE: 03/25/2003  
TITLE: POLISHING PAD COMPRISING A FILLED TRANSLUCENT REGION

APPLICATION NUMBER: 09690585 FILING DATE: 10/17/2000  
PATENT NUMBER: 6461227 ISSUE DATE: 10/08/2002  
TITLE: METHOD OF POLISHING A MEMORY OR RIGID DISK WITH AN AMMONIA-  
AND/OR HALIDE-CONTAINING COMPOSITION

APPLICATION NUMBER: 09728779 FILING DATE: 12/01/2000  
PATENT NUMBER: 6316365 ISSUE DATE: 11/13/2001  
TITLE: CHEMICAL-MECHANICAL POLISHING METHOD

APPLICATION NUMBER: 09737905 FILING DATE: 12/15/2000  
PATENT NUMBER: 6872328 ISSUE DATE: 03/29/2005  
TITLE: METHOD OF POLISHING OR PLANARIZING A SUBSTRATE

APPLICATION NUMBER: 09766750 FILING DATE: 01/22/2001  
PATENT NUMBER: 6435947 ISSUE DATE: 08/20/2002  
TITLE: CMP POLISHING PAD INCLUDING A SOLID CATALYST

APPLICATION NUMBER: 09766759 FILING DATE: 01/22/2001  
PATENT NUMBER: 6383065 ISSUE DATE: 05/07/2002  
TITLE: CATALYTIC REACTIVE PAD FOR METAL CMP

APPLICATION NUMBER: 09788082 FILING DATE: 02/16/2001  
PATENT NUMBER: 6623331 ISSUE DATE: 09/23/2003  
TITLE: POLISHING DISK WITH END-POINT DETECTION PORT

APPLICATION NUMBER: 09800009 FILING DATE: 03/06/2001  
PATENT NUMBER: 6447371 ISSUE DATE: 09/10/2002  
TITLE: CHEMICAL MECHANICAL POLISHING SLURRY USEFUL FOR COPPER/TANTALUM  
SUBSTRATES

APPLICATION NUMBER: 09961934 FILING DATE: 09/24/2001  
PATENT NUMBER: 6589100 ISSUE DATE: 07/08/2003  
TITLE: RARE EARTH SALT/OXIDIZER-BASED CMP METHOD

APPLICATION NUMBER: 09975335 FILING DATE: 10/11/2001  
PATENT NUMBER: 6805812 ISSUE DATE: 10/19/2004  
TITLE: PHOSPHONO COMPOUND-CONTAINING POLISHING COMPOSITION AND METHOD  
OF USING SAME

APPLICATION NUMBER: 09995025 FILING DATE: 11/27/2001  
PATENT NUMBER: 6685540 ISSUE DATE: 02/03/2004  
TITLE: POLISHING PAD COMPRISING PARTICLES WITH A SOLID CORE AND  
POLYMERIC SHELL

APPLICATION NUMBER: 10022308 FILING DATE: 12/18/2001  
PATENT NUMBER: 6527819 ISSUE DATE: 03/04/2003  
TITLE: POLISHING SLURRIES FOR COPPER AND ASSOCIATED MATERIALS

APPLICATION NUMBER: 10022317 FILING DATE: 12/18/2001  
PATENT NUMBER: 6936542 ISSUE DATE: 08/30/2005  
TITLE: POLISHING SLURRIES FOR COPPER AND ASSOCIATED MATERIALS

APPLICATION NUMBER: 10033152 FILING DATE: 10/24/2001  
PATENT NUMBER: 6705926 ISSUE DATE: 03/16/2004  
TITLE: BORON-CONTAINING POLISHING SYSTEM AND METHOD

APPLICATION NUMBER: 10044174 FILING DATE: 01/11/2002  
PATENT NUMBER: 6612911 ISSUE DATE: 09/02/2003  
TITLE: ALKALI METAL-CONTAINING POLISHING SYSTEM AND METHOD

APPLICATION NUMBER: 10051241 FILING DATE: 01/18/2002  
PATENT NUMBER: 7004819 ISSUE DATE: 02/28/2006  
TITLE: CMP SYSTEMS AND METHODS UTILIZING AMINE-CONTAINING POLYMERS

APPLICATION NUMBER: 10054059 FILING DATE: 01/22/2002  
PATENT NUMBER: 6527622 ISSUE DATE: 03/04/2003  
TITLE: CMP METHOD FOR NOBLE METALS

APPLICATION NUMBER: 10073844 FILING DATE: 02/11/2002  
PATENT NUMBER: 6776810 ISSUE DATE: 08/17/2004  
TITLE: ANIONIC ABRASIVE PARTICLES TREATED WITH POSITIVELY CHARGED  
POLYELECTROLYTES FOR CMP

APPLICATION NUMBER: 10083985 FILING DATE: 02/27/2002  
PATENT NUMBER: 6840843 ISSUE DATE: 01/11/2005  
TITLE: METHOD FOR MANUFACTURING A POLISHING PAD HAVING A COMPRESSED  
TRANSLUCENT REGION

APPLICATION NUMBER: 10092406 FILING DATE: 03/05/2002  
PATENT NUMBER: 6682575 ISSUE DATE: 01/27/2004  
TITLE: METHANOL-CONTAINING SILICA-BASED CMP COMPOSITIONS

APPLICATION NUMBER: 10099492 FILING DATE: 03/15/2002  
PATENT NUMBER: 6569350 ISSUE DATE: 05/27/2003  
TITLE: CHEMICAL MECHANICAL POLISHING SLURRY USEFUL FOR COPPER  
SUBSTRATES

APPLICATION NUMBER: 10117554 FILING DATE: 04/04/2002  
PATENT NUMBER: 6853474 ISSUE DATE: 02/08/2005  
TITLE: PROCESS FOR FABRICATING OPTICAL SWITCHES

APPLICATION NUMBER: 10119862 FILING DATE: 04/10/2002  
PATENT NUMBER: 6841479 ISSUE DATE: 01/11/2005  
TITLE: METHOD OF REDUCING IN-TRENCH SMEARING DURING POLISHING

APPLICATION NUMBER: 10142681 FILING DATE: 05/10/2002  
PATENT NUMBER: 7677956 ISSUE DATE: 03/16/2010  
TITLE: COMPOSITIONS AND METHODS FOR DIELECTRIC CMP

APPLICATION NUMBER: 10145357 FILING DATE: 05/14/2002  
PATENT NUMBER: 6620037 ISSUE DATE: 09/16/2003  
TITLE: CHEMICAL MECHANICAL POLISHING SLURRY USEFUL FOR COPPER  
SUBSTRATES

APPLICATION NUMBER: 10154231 FILING DATE: 05/23/2002  
PATENT NUMBER: 6541434 ISSUE DATE: 04/01/2003  
TITLE: CLEANING SOLUTION FOR SEMICONDUCTOR SURFACES FOLLOWING  
CHEMICAL-MECHANICAL POLISHING

APPLICATION NUMBER: 10164916 FILING DATE: 06/06/2002  
PATENT NUMBER: 7087187 ISSUE DATE: 08/08/2006  
TITLE: METAL OXIDE COATED CARBON BLACK FOR CMP

APPLICATION NUMBER: 10165100 FILING DATE: 06/07/2002  
PATENT NUMBER: 6974777 ISSUE DATE: 12/13/2005  
TITLE: CMP COMPOSITIONS FOR LOW-K DIELECTRIC MATERIALS

APPLICATION NUMBER: 10165133 FILING DATE: 06/06/2002  
PATENT NUMBER: 6641630 ISSUE DATE: 11/04/2003  
TITLE: CMP COMPOSITIONS CONTAINING IODINE AND AN IODINE VAPOR-TRAPPING  
AGENT

APPLICATION NUMBER: 10190360 FILING DATE: 07/03/2002  
PATENT NUMBER: 6925150 ISSUE DATE: 08/02/2005  
TITLE: METHOD AND APPARATUS FOR PROVIDING A MINIATURE, FLEXIBLE VOLTAGE  
UPCONVERTER

APPLICATION NUMBER: 10193589 FILING DATE: 07/11/2002  
PATENT NUMBER: 6884729 ISSUE DATE: 04/26/2005  
TITLE: GLOBAL PLANARIZATION METHOD

APPLICATION NUMBER: 10198841 FILING DATE: 07/19/2002  
PATENT NUMBER: 7021993 ISSUE DATE: 04/04/2006  
TITLE: METHOD OF POLISHING A SUBSTRATE WITH A POLISHING SYSTEM  
CONTAINING CONDUCTING POLYMER

APPLICATION NUMBER: 10199704 FILING DATE: 07/19/2002  
PATENT NUMBER: 6811474 ISSUE DATE: 11/02/2004  
TITLE: POLISHING COMPOSITION CONTAINING CONDUCTING POLYMER

APPLICATION NUMBER: 10231047 FILING DATE: 08/30/2002  
PATENT NUMBER: 6812193 ISSUE DATE: 11/02/2004  
TITLE: SLURRY FOR MECHANICAL POLISHING (CMP) OF METALS AND USE THEREOF

APPLICATION NUMBER: 10246280 FILING DATE: 09/18/2002  
PATENT NUMBER: 6821897 ISSUE DATE: 11/23/2004  
TITLE: METHOD FOR COPPER CMP USING POLYMERIC COMPLEXING AGENTS

APPLICATION NUMBER: 10269864 FILING DATE: 10/11/2002  
PATENT NUMBER: 6936543 ISSUE DATE: 08/30/2005  
TITLE: CMP METHOD UTILIZING AMPHIPHILIC NONIONIC SURFACTANTS

APPLICATION NUMBER: 10281782 FILING DATE: 10/28/2002  
PATENT NUMBER: 6913517 ISSUE DATE: 07/05/2005  
TITLE: MICROPOROUS POLISHING PADS

APPLICATION NUMBER: 10282489 FILING DATE: 10/28/2002  
PATENT NUMBER: 7435165 ISSUE DATE: 10/14/2008  
TITLE: TRANSPARENT MICROPOROUS MATERIALS FOR CMP

APPLICATION NUMBER: 10295836 FILING DATE: 11/18/2002  
PATENT NUMBER: 6641632 ISSUE DATE: 11/04/2003  
TITLE: POLISHING COMPOSITIONS AND USE THEREOF

APPLICATION NUMBER: 10300196 FILING DATE: 11/20/2002  
PATENT NUMBER: 7093722 ISSUE DATE: 08/22/2006  
TITLE: POLISHING COMPOSITION STORAGE CONTAINER

APPLICATION NUMBER: 10324634 FILING DATE: 12/19/2002  
PATENT NUMBER: 6840971 ISSUE DATE: 01/11/2005  
TITLE: CHEMICAL MECHANICAL POLISHING SYSTEMS AND METHODS FOR THEIR USE

APPLICATION NUMBER: 10353512 FILING DATE: 01/29/2003  
PATENT NUMBER: 6867140 ISSUE DATE: 03/15/2005  
TITLE: METHOD OF POLISHING A MULTI-LAYER SUBSTRATE

APPLICATION NUMBER: 10353542 FILING DATE: 01/29/2003  
PATENT NUMBER: 6852632 ISSUE DATE: 02/08/2005  
TITLE: METHOD OF USING A POLISHING SYSTEM

APPLICATION NUMBER: 10356970 FILING DATE: 02/03/2003  
PATENT NUMBER: 7071105 ISSUE DATE: 07/04/2006  
TITLE: METHOD OF POLISHING A SILICON-CONTAINING DIELECTRIC

APPLICATION NUMBER: 10361520 FILING DATE: 02/10/2003  
PATENT NUMBER: 6960120 ISSUE DATE: 11/01/2005  
TITLE: CMP PAD WITH COMPOSITE TRANSPARENT WINDOW

APPLICATION NUMBER: 10361720 FILING DATE: 02/10/2003  
PATENT NUMBER: 6832947 ISSUE DATE: 12/21/2004  
TITLE: CMP PAD WITH COMPOSITE TRANSPARENT WINDOW

APPLICATION NUMBER: 10364243 FILING DATE: 02/11/2003  
PATENT NUMBER: 6896591 ISSUE DATE: 05/24/2005  
TITLE: MIXED-ABRASIVE POLISHING COMPOSITION AND METHOD FOR USING THE SAME

APPLICATION NUMBER: 10368275 FILING DATE: 02/18/2003  
PATENT NUMBER: 6830503 ISSUE DATE: 12/14/2004  
TITLE: CATALYST/OXIDIZER-BASED CMP SYSTEM FOR ORGANIC POLYMER FILMS

APPLICATION NUMBER: 10376172 FILING DATE: 02/27/2003  
PATENT NUMBER: 7097541 ISSUE DATE: 08/29/2006  
TITLE: CMP METHOD FOR NOBLE METALS

APPLICATION NUMBER: 10382370 FILING DATE: 03/06/2003  
PATENT NUMBER: 6953532 ISSUE DATE: 10/11/2005  
TITLE: METHOD OF POLISHING A LANTHANIDE SUBSTRATE

APPLICATION NUMBER: 10419580 FILING DATE: 04/21/2003  
PATENT NUMBER: 7044836 ISSUE DATE: 05/16/2006  
TITLE: COATED METAL OXIDE PARTICLES FOR CMP

APPLICATION NUMBER: 10419659 FILING DATE: 04/21/2003  
PATENT NUMBER: 6767476 ISSUE DATE: 07/27/2004  
TITLE: POLISHING COMPOSITION FOR METAL CMP

APPLICATION NUMBER: 10463680 FILING DATE: 06/17/2003  
PATENT NUMBER: 6884156 ISSUE DATE: 04/26/2005  
TITLE: MULTI-LAYER POLISHING PAD MATERIAL FOR CMP

APPLICATION NUMBER: 10463721 FILING DATE: 06/17/2003  
PATENT NUMBER: 6997777 ISSUE DATE: 02/14/2006  
TITLE: ULTRASONIC WELDING METHOD FOR THE MANUFACTURE OF A POLISHING PAD  
COMPRISING AN OPTICALLY TRANSMISSIVE REGION

APPLICATION NUMBER: 10463730 FILING DATE: 06/17/2003  
PATENT NUMBER: 6998166 ISSUE DATE: 02/14/2006  
TITLE: POLISHING PAD WITH ORIENTED PORE STRUCTURE

APPLICATION NUMBER: 10543848 FILING DATE: 07/29/2005  
PATENT NUMBER: 7442645 ISSUE DATE: 10/28/2008  
TITLE: METHOD OF POLISHING A SILICON-CONTAINING DIELECTRIC

APPLICATION NUMBER: 10568727 FILING DATE: 02/17/2006  
PATENT NUMBER: 7754098 ISSUE DATE: 07/13/2010  
TITLE: CHEMICAL-MECHANICAL POLISHING COMPOSITION AND METHOD FOR USING  
THE SAME

APPLICATION NUMBER: 10610407 FILING DATE: 06/30/2003  
PATENT NUMBER: 7160807 ISSUE DATE: 01/09/2007  
TITLE: CMP OF NOBLE METALS

APPLICATION NUMBER: 10616335 FILING DATE: 07/09/2003  
PATENT NUMBER: 7381648 ISSUE DATE: 06/03/2008  
TITLE: CHEMICAL MECHANICAL POLISHING SLURRY USEFUL FOR COPPER  
SUBSTRATES

APPLICATION NUMBER: 10660379 FILING DATE: 09/11/2003  
PATENT NUMBER: 7485241 ISSUE DATE: 02/03/2009  
TITLE: CHEMICAL-MECHANICAL POLISHING COMPOSITION AND METHOD FOR USING  
THE SAME

APPLICATION NUMBER: 10660687 FILING DATE: 09/11/2003  
PATENT NUMBER: 7238618 ISSUE DATE: 07/03/2007  
TITLE: SYSTEM FOR THE PREFERENTIAL REMOVAL OF SILICON OXIDE

APPLICATION NUMBER: 10666797 FILING DATE: 09/19/2003  
PATENT NUMBER: 7195539 ISSUE DATE: 03/27/2007  
TITLE: POLISHING PAD WITH RECESSED WINDOW

APPLICATION NUMBER: 10675417 FILING DATE: 09/30/2003  
PATENT NUMBER: 6929983 ISSUE DATE: 08/16/2005  
TITLE: METHOD OF FORMING A CURRENT CONTROLLING DEVICE

APPLICATION NUMBER: 10689167 FILING DATE: 10/20/2003  
PATENT NUMBER: 7317232 ISSUE DATE: 01/08/2008  
TITLE: MEM SWITCHING DEVICE

APPLICATION NUMBER: 10694408 FILING DATE: 10/27/2003  
PATENT NUMBER: 6984588 ISSUE DATE: 01/10/2006  
TITLE: COMPOSITIONS FOR OXIDE CMP

APPLICATION NUMBER: 10705533 FILING DATE: 11/10/2003  
PATENT NUMBER: 7264641 ISSUE DATE: 09/04/2007  
TITLE: POLISHING PAD COMPRISING BIODEGRADABLE POLYMER

APPLICATION NUMBER: 10753138 FILING DATE: 01/07/2004  
PATENT NUMBER: 7288021 ISSUE DATE: 10/30/2007  
TITLE: CHEMICAL-MECHANICAL POLISHING OF METALS IN AN OXIDIZED FORM

APPLICATION NUMBER: 10753269 FILING DATE: 01/08/2004  
PATENT NUMBER: 6984587 ISSUE DATE: 01/10/2006  
TITLE: INTEGRATED POLISHING AND ELECTROLESS DEPOSITION

APPLICATION NUMBER: 10754390 FILING DATE: 01/09/2004  
PATENT NUMBER: ISSUE DATE:  
TITLE: NEGATIVE POISSON'S RATIO MATERIAL-CONTAINING CMP POLISHING PAD

APPLICATION NUMBER: 10755154 FILING DATE: 01/09/2004  
PATENT NUMBER: 7255810 ISSUE DATE: 08/14/2007  
TITLE: POLISHING SYSTEM COMPRISING A HIGHLY BRANCHED POLYMER

APPLICATION NUMBER: 10763552 FILING DATE: 01/23/2004  
PATENT NUMBER: 7317278 ISSUE DATE: 01/08/2008  
TITLE: METHOD OF OPERATING AND PROCESS FOR FABRICATING AN ELECTRON SOURCE

APPLICATION NUMBER: 10792183 FILING DATE: 03/03/2004  
PATENT NUMBER: 6896593 ISSUE DATE: 05/24/2005  
TITLE: MICROPOROUS POLISHING PADS

APPLICATION NUMBER: 10792344 FILING DATE: 03/03/2004  
PATENT NUMBER: 6899598 ISSUE DATE: 05/31/2005  
TITLE: MICROPOROUS POLISHING PADS

APPLICATION NUMBER: 10792348 FILING DATE: 03/03/2004  
PATENT NUMBER: 6935931 ISSUE DATE: 08/30/2005  
TITLE: MICROPOROUS POLISHING PADS

APPLICATION NUMBER: 10801316 FILING DATE: 03/16/2004  
PATENT NUMBER: 7001253 ISSUE DATE: 02/21/2006  
TITLE: BORON-CONTAINING POLISHING SYSTEM AND METHOD

APPLICATION NUMBER: 10807064 FILING DATE: 03/23/2004  
PATENT NUMBER: 7195544 ISSUE DATE: 03/27/2007  
TITLE: CMC POROUS PAD WITH COMPONENT-FILLED PORES

APPLICATION NUMBER: 10807079 FILING DATE: 03/23/2004  
PATENT NUMBER: 7059936 ISSUE DATE: 06/13/2006  
TITLE: LOW SURFACE ENERGY CMP PAD

APPLICATION NUMBER: 10808827 FILING DATE: 03/25/2004  
PATENT NUMBER: 7204742 ISSUE DATE: 04/17/2007  
TITLE: POLISHING PAD COMPRISING HYDROPHOBIC REGION AND ENDPOINT DETECTION PORT

APPLICATION NUMBER: 10854944 FILING DATE: 05/27/2004  
PATENT NUMBER: 7274772 ISSUE DATE: 09/25/2007  
TITLE: X-RAY SOURCE WITH NONPARALLEL GEOMETRY

APPLICATION NUMBER: 10855276 FILING DATE: 05/27/2004  
PATENT NUMBER: 7306637 ISSUE DATE: 12/11/2007  
TITLE: ANIONIC ABRASIVE PARTICLES TREATED WITH POSITIVELY CHARGED POLYELECTROLYTES FOR CMP

APPLICATION NUMBER: 10855281 FILING DATE: 05/27/2004  
PATENT NUMBER: 7277314 ISSUE DATE: 10/02/2007  
TITLE: MOBILE ION MEMORY

APPLICATION NUMBER: 10861007 FILING DATE: 06/04/2004  
PATENT NUMBER: 7091604 ISSUE DATE: 08/15/2006  
TITLE: THREE DIMENSIONAL INTEGRATED CIRCUITS

APPLICATION NUMBER: 10865027 FILING DATE: 06/10/2004  
PATENT NUMBER: 7438795 ISSUE DATE: 10/21/2008  
TITLE: ELECTROCHEMICAL-MECHANICAL POLISHING SYSTEM

APPLICATION NUMBER: 10869397 FILING DATE: 06/16/2004  
PATENT NUMBER: 7247567 ISSUE DATE: 07/24/2007  
TITLE: METHOD OF POLISHING A TUNGSTEN-CONTAINING SUBSTRATE

APPLICATION NUMBER: 10869605 FILING DATE: 06/16/2004  
PATENT NUMBER: 7198549 ISSUE DATE: 04/03/2007  
TITLE: CONTINUOUS CONTOUR POLISHING OF A MULTI-MATERIAL SURFACE

APPLICATION NUMBER: 10901420 FILING DATE: 07/28/2004  
PATENT NUMBER: 7161247 ISSUE DATE: 01/09/2007  
TITLE: POLISHING COMPOSITION FOR NOBLE METALS

APPLICATION NUMBER: 10931908 FILING DATE: 09/01/2004  
PATENT NUMBER: 8075372 ISSUE DATE: 12/13/2011  
TITLE: POLISHING PAD WITH MICROPOROUS REGIONS

APPLICATION NUMBER: 10963108 FILING DATE: 10/12/2004  
PATENT NUMBER: 7563383 ISSUE DATE: 07/21/2009  
TITLE: CMP COMPOSITION WITH A POLYMER ADDITIVE FOR POLISHING NOBLE METALS

APPLICATION NUMBER: 10968571 FILING DATE: 10/19/2004  
PATENT NUMBER: 7037175 ISSUE DATE: 05/02/2006  
TITLE: METHOD OF SHARPENING CUTTING EDGES

APPLICATION NUMBER: 10974460 FILING DATE: 10/27/2004  
PATENT NUMBER: 8038752 ISSUE DATE: 10/18/2011  
TITLE: METAL ION-CONTAINING CMP COMPOSITION AND METHOD FOR USING THE SAME

APPLICATION NUMBER: 10975585 FILING DATE: 10/28/2004  
PATENT NUMBER: 7524347 ISSUE DATE: 04/28/2009  
TITLE: CMP COMPOSITION COMPRISING SURFACTANT

APPLICATION NUMBER: 10982486 FILING DATE: 11/05/2004  
PATENT NUMBER: 7504044 ISSUE DATE: 03/17/2009  
TITLE: POLISHING COMPOSITION AND METHOD FOR HIGH SILICON NITRIDE TO SILICON OXIDE REMOVAL RATE RATIOS

APPLICATION NUMBER: 11033068 FILING DATE: 01/10/2005  
PATENT NUMBER: 7354530 ISSUE DATE: 04/08/2008  
TITLE: CHEMICAL MECHANICAL POLISHING SYSTEMS AND METHODS FOR THEIR USE

APPLICATION NUMBER: 11070695 FILING DATE: 03/02/2005  
PATENT NUMBER: 7686994 ISSUE DATE: 03/30/2010  
TITLE: METHOD OF PREPARING A CONDUCTIVE FILM

APPLICATION NUMBER: 11084287 FILING DATE: 03/18/2005  
PATENT NUMBER: 7456482 ISSUE DATE: 11/25/2008  
TITLE: CARBON NANOTUBE-BASED ELECTRONIC SWITCH

APPLICATION NUMBER: 11088075 FILING DATE: 03/22/2005  
PATENT NUMBER: 7497938 ISSUE DATE: 03/03/2009  
TITLE: TRIBO-CHRONOAMPEROMETRY AS A TOOL FOR CMP APPLICATION

APPLICATION NUMBER: 11093806 FILING DATE: 03/30/2005  
PATENT NUMBER: 7311856 ISSUE DATE: 12/25/2007  
TITLE: POLYMERIC INHIBITORS FOR ENHANCED PLANARIZATION

APPLICATION NUMBER: 11113498 FILING DATE: 04/25/2005  
PATENT NUMBER: 7435161 ISSUE DATE: 10/14/2008  
TITLE: MULTI-LAYER POLISHING PAD MATERIAL FOR CMP

APPLICATION NUMBER: 11145807 FILING DATE: 06/06/2005  
PATENT NUMBER: 7427567 ISSUE DATE: 09/23/2008  
TITLE: POLISHING SLURRIES FOR COPPER AND ASSOCIATED MATERIALS

APPLICATION NUMBER: 11150944 FILING DATE: 06/13/2005  
PATENT NUMBER: 7998335 ISSUE DATE: 08/16/2011  
TITLE: CONTROLLED ELECTROCHEMICAL POLISHING METHOD

APPLICATION NUMBER: 11158694 FILING DATE: 06/22/2005  
PATENT NUMBER: 7267607 ISSUE DATE: 09/11/2007  
TITLE: TRANSPARENT MICROPOROUS MATERIALS FOR CMP

APPLICATION NUMBER: 11173518 FILING DATE: 06/30/2005  
PATENT NUMBER: 8062096 ISSUE DATE: 11/22/2011  
TITLE: USE OF CMP FOR ALUMINUM MIRROR AND SOLAR CELL FABRICATION

APPLICATION NUMBER: 11205428 FILING DATE: 08/17/2005  
PATENT NUMBER: ISSUE DATE:  
TITLE: ABRASIVE-FREE POLISHING SYSTEM

APPLICATION NUMBER: 11235765 FILING DATE: 09/26/2005  
PATENT NUMBER: 7316603 ISSUE DATE: 01/08/2008  
TITLE: COMPOSITIONS AND METHODS FOR TANTALUM CMP

APPLICATION NUMBER: 11241137 FILING DATE: 09/30/2005  
PATENT NUMBER: 7955519 ISSUE DATE: 06/07/2011  
TITLE: COMPOSITION AND METHOD FOR PLANARIZING SURFACES

APPLICATION NUMBER: 11241214 FILING DATE: 09/30/2005  
PATENT NUMBER: 7447298 ISSUE DATE: 11/04/2008  
TITLE: DECONTAMINATION AND STERILIZATION SYSTEM USING LARGE AREA X-RAY SOURCE

APPLICATION NUMBER: 11259645 FILING DATE: 10/26/2005  
PATENT NUMBER: 7265055 ISSUE DATE: 09/04/2007  
TITLE: CMP OF COPPER/RUTHENIUM SUBSTRATES

APPLICATION NUMBER: 11265607 FILING DATE: 11/02/2005  
PATENT NUMBER: 7311862 ISSUE DATE: 12/25/2007  
TITLE: METHOD FOR MANUFACTURING MICROPOROUS CMP MATERIALS HAVING CONTROLLED PORE SIZE

APPLICATION NUMBER: 11294853 FILING DATE: 12/06/2005  
PATENT NUMBER: 7531105 ISSUE DATE: 05/12/2009  
TITLE: POLISHING COMPOSITION AND METHOD FOR HIGH SILICON NITRIDE TO SILICON OXIDE REMOVAL RATE RATIOS



APPLICATION NUMBER: 11374238 FILING DATE: 03/13/2006  
PATENT NUMBER: ISSUE DATE:  
TITLE: COMPOSITION AND METHOD TO POLISH SILICON NITRIDE

APPLICATION NUMBER: 11384538 FILING DATE: 03/20/2006  
PATENT NUMBER: 7732393 ISSUE DATE: 06/08/2010  
TITLE: OXIDATION-STABILIZED CMP COMPOSITIONS AND METHODS

APPLICATION NUMBER: 11387558 FILING DATE: 03/23/2006  
PATENT NUMBER: ISSUE DATE:  
TITLE: IODATE-CONTAINING CHEMICAL-MECHANICAL POLISHING COMPOSITIONS AND METHODS

APPLICATION NUMBER: 11388085 FILING DATE: 03/23/2006  
PATENT NUMBER: 7820067 ISSUE DATE: 10/26/2010  
TITLE: HALIDE ANIONS FOR METAL REMOVAL RATE CONTROL

APPLICATION NUMBER: 11412369 FILING DATE: 04/27/2006  
PATENT NUMBER: 7585340 ISSUE DATE: 09/08/2009  
TITLE: POLISHING COMPOSITION CONTAINING POLYETHER AMINE

APPLICATION NUMBER: 11444866 FILING DATE: 05/31/2006  
PATENT NUMBER: 7368066 ISSUE DATE: 05/06/2008  
TITLE: GOLD CMP COMPOSITION AND METHOD

APPLICATION NUMBER: 11448205 FILING DATE: 06/07/2006  
PATENT NUMBER: ISSUE DATE:  
TITLE: COMPOSITIONS AND METHODS FOR POLISHING SILICON NITRIDE MATERIALS

APPLICATION NUMBER: 11478004 FILING DATE: 06/29/2006  
PATENT NUMBER: ISSUE DATE:  
TITLE: SILICON OXIDE POLISHING METHOD UTILIZING COLLOIDAL SILICA

APPLICATION NUMBER: 11478023 FILING DATE: 06/29/2006  
PATENT NUMBER: 7294576 ISSUE DATE: 11/13/2007  
TITLE: TUNABLE SELECTIVITY SLURRIES IN CMP APPLICATIONS

APPLICATION NUMBER: 11489054 FILING DATE: 07/19/2006  
PATENT NUMBER: 7998228 ISSUE DATE: 08/16/2011  
TITLE: TANTALUM CMP COMPOSITIONS AND METHODS

APPLICATION NUMBER: 11491055 FILING DATE: 07/21/2006  
PATENT NUMBER: 7501346 ISSUE DATE: 03/10/2009  
TITLE: GALLIUM AND CHROMIUM IONS FOR OXIDE RATE ENHANCEMENT

APPLICATION NUMBER: 11491612 FILING DATE: 07/24/2006  
PATENT NUMBER: ISSUE DATE:  
TITLE: RATE-ENHANCED CMP COMPOSITIONS FOR DIELECTRIC FILMS

APPLICATION NUMBER: 11515546 FILING DATE: 09/05/2006  
PATENT NUMBER: 7678700 ISSUE DATE: 03/16/2010  
TITLE: SILICON CARBIDE POLISHING METHOD UTILIZING WATER-SOLUBLE OXIDIZERS

APPLICATION NUMBER: 11517909 FILING DATE: 09/08/2006  
PATENT NUMBER: ISSUE DATE:  
TITLE: ONIUM-CONTAINING CMP COMPOSITIONS AND METHODS OF USE THEREOF

APPLICATION NUMBER: 11518674 FILING DATE: 09/11/2006  
PATENT NUMBER: 8057561 ISSUE DATE: 11/15/2011  
TITLE: POLYOXOMETALATE COMPOSITIONS AND METHODS

APPLICATION NUMBER: 11591730 FILING DATE: 11/02/2006  
PATENT NUMBER: ISSUE DATE:  
TITLE: CMP OF COPPER/RUTHENIUM/TANTALUM SUBSTRATES

APPLICATION NUMBER: 11595536 FILING DATE: 11/09/2006  
PATENT NUMBER: 7456107 ISSUE DATE: 11/25/2008  
TITLE: COMPOSITIONS AND METHODS FOR CMP OF LOW-K-DIELECTRIC MATERIALS

APPLICATION NUMBER: 11599199 FILING DATE: 11/13/2006  
PATENT NUMBER: 7837888 ISSUE DATE: 11/23/2010  
TITLE: COMPOSITION AND METHOD FOR DAMASCENE CMP

APPLICATION NUMBER: 11620517 FILING DATE: 01/05/2007  
PATENT NUMBER: 7365013 ISSUE DATE: 04/29/2008  
TITLE: SYSTEM FOR THE PREFERENTIAL REMOVAL OF SILICON OXIDE

APPLICATION NUMBER: 11634576 FILING DATE: 12/06/2006  
PATENT NUMBER: ISSUE DATE:  
TITLE: COMPOSITIONS FOR POLISHING ALUMINUM/COPPER AND TITANIUM IN  
DAMASCENE STRUCTURES

APPLICATION NUMBER: 11670137 FILING DATE: 02/01/2007  
PATENT NUMBER: 7582127 ISSUE DATE: 09/01/2009  
TITLE: POLISHING COMPOSITION FOR A TUNGSTEN-CONTAINING SUBSTRATE

APPLICATION NUMBER: 11673399 FILING DATE: 02/09/2007  
PATENT NUMBER: 7803203 ISSUE DATE: 09/28/2010  
TITLE: COMPOSITIONS AND METHODS FOR CMP OF SEMICONDUCTOR MATERIALS

APPLICATION NUMBER: 11673518 FILING DATE: 02/09/2007  
PATENT NUMBER: 7776230 ISSUE DATE: 08/17/2010  
TITLE: CMP SYSTEM UTILIZING HALOGEN ADDUCT

APPLICATION NUMBER: 11681258 FILING DATE: 03/02/2007  
PATENT NUMBER: 7557566 ISSUE DATE: 07/07/2009  
TITLE: METHOD AND APPARATUS FOR MEASUREMENT OF MAGNETIC PERMEABILITY OF  
A MATERIAL

APPLICATION NUMBER: 11690944 FILING DATE: 03/26/2007  
PATENT NUMBER: 7699684 ISSUE DATE: 04/20/2010  
TITLE: CMP POROUS PAD WITH COMPONENT-FILLED PORES

APPLICATION NUMBER: 11699129 FILING DATE: 01/29/2007  
PATENT NUMBER: 7897061 ISSUE DATE: 03/01/2011  
TITLE: COMPOSITIONS AND METHODS FOR CMP OF PHASE CHANGE ALLOYS

APPLICATION NUMBER: 11706929 FILING DATE: 02/14/2007  
PATENT NUMBER: ISSUE DATE:  
TITLE: COMPOSITIONS AND METHODS FOR CMP OF INDIUM TIN OXIDE SURFACES

APPLICATION NUMBER: 11779752 FILING DATE: 07/18/2007  
PATENT NUMBER: 7542549 ISSUE DATE: 06/02/2009  
TITLE: X-RAY SOURCE WITH NONPARALLEL GEOMETRY

APPLICATION NUMBER: 11800188 FILING DATE: 05/04/2007  
PATENT NUMBER: ISSUE DATE:  
TITLE: CMP COMPOSITIONS CONTAINING A SOLUBLE PEROXOMETALATE COMPLEX AND  
METHODS OF USE THEREOF

APPLICATION NUMBER: 11856790 FILING DATE: 09/18/2007  
PATENT NUMBER: 7803711 ISSUE DATE: 09/28/2010  
TITLE: LOW PH BARRIER SLURRY BASED ON TITANIUM DIOXIDE

APPLICATION NUMBER: 11888406 FILING DATE: 08/01/2007  
PATENT NUMBER: 8008202 ISSUE DATE: 08/30/2011  
TITLE: RUTHENIUM CMP COMPOSITIONS AND METHODS

APPLICATION NUMBER: 11892720 FILING DATE: 08/27/2007  
PATENT NUMBER: ISSUE DATE:  
TITLE: CHEMICAL MECHANICAL POLISHING SLURRY, ITS PREPARATION METHOD,  
AND USE FOR THE SAME

APPLICATION NUMBER: 11895896 FILING DATE: 08/28/2007  
PATENT NUMBER: ISSUE DATE:  
TITLE: COPPER CMP COMPOSITION CONTAINING IONIC POLYELECTROLYTE AND  
METHOD

APPLICATION NUMBER: 11937804 FILING DATE: 11/09/2007  
PATENT NUMBER: ISSUE DATE:  
TITLE: COMPOSITIONS AND METHODS FOR RUTHENIUM AND TANTALUM BARRIER CMP

APPLICATION NUMBER: 11960135 FILING DATE: 12/19/2007  
PATENT NUMBER: ISSUE DATE:  
TITLE: HALIDE ANIONS FOR METAL REMOVAL RATE CONTROL

APPLICATION NUMBER: 11970978 FILING DATE: 01/08/2008  
PATENT NUMBER: 7922926 ISSUE DATE: 04/12/2011  
TITLE: COMPOSITION AND METHOD FOR POLISHING NICKEL-PHOSPHOROUS-COATED  
ALUMINUM HARD DISKS

APPLICATION NUMBER: 11986921 FILING DATE: 11/27/2007  
PATENT NUMBER: 7955520 ISSUE DATE: 06/07/2011  
TITLE: COPPER-PASSIVATING CMP COMPOSITIONS AND METHODS

APPLICATION NUMBER: 12001631 FILING DATE: 12/12/2007  
PATENT NUMBER: 7875469 ISSUE DATE: 01/25/2011  
TITLE: METHOD OF OPERATING AND PROCESS FOR FABRICATING AN ELECTRON  
SOURCE

APPLICATION NUMBER: 12011435 FILING DATE: 01/25/2008  
PATENT NUMBER: ISSUE DATE:  
TITLE: COMPOSITION AND METHOD FOR ENHANCING POT LIFE OF HYDROGEN  
PEROXIDE-CONTAINING CMP SLURRIES

APPLICATION NUMBER: 12043010 FILING DATE: 03/05/2008  
PATENT NUMBER: 7998866 ISSUE DATE: 08/16/2011  
TITLE: SILICON CARBIDE POLISHING METHOD UTILIZING WATER-SOLUBLE  
OXIDIZERS

APPLICATION NUMBER: 12052970 FILING DATE: 03/21/2008  
PATENT NUMBER: ISSUE DATE:  
TITLE: COMPOSITIONS FOR POLISHING ALUMINUM/COPPER AND TITANIUM IN  
DAMASCENE STRUCTURES

APPLICATION NUMBER: 12069495 FILING DATE: 02/11/2008  
PATENT NUMBER: ISSUE DATE:  
TITLE: POLISHING SLURRY FOR ALUMINUM AND ALUMINUM ALLOYS

APPLICATION NUMBER: 12126739 FILING DATE: 05/23/2008  
PATENT NUMBER: 8017524 ISSUE DATE: 09/13/2011  
TITLE: STABLE, HIGH RATE SILICON SLURRY

APPLICATION NUMBER: 12170954 FILING DATE: 07/10/2008  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHOD OF POLISHING NICKEL-PHOSPHOROUS

APPLICATION NUMBER: 12221023 FILING DATE: 07/30/2008  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHODS AND COMPOSITIONS FOR POLISHING SILICON-CONTAINING  
SUBSTRATES

APPLICATION NUMBER: 12224902 FILING DATE: 09/09/2008  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHOD OF POLISHING A TUNGSTEN CARBIDE SURFACE

APPLICATION NUMBER: 12226394 FILING DATE: 10/17/2008  
PATENT NUMBER: ISSUE DATE:  
TITLE: COMPOSITIONS AND METHODS FOR CMP OF SEMICONDUCTOR MATERIALS

APPLICATION NUMBER: 12234173 FILING DATE: 09/19/2008  
PATENT NUMBER: 7994057 ISSUE DATE: 08/09/2011  
TITLE: POLISHING COMPOSITION AND METHOD UTILIZING ABRASIVE PARTICLES  
TREATED WITH AN AMINOSILANE

APPLICATION NUMBER: 12234237 FILING DATE: 09/19/2008  
PATENT NUMBER: ISSUE DATE:  
TITLE: POLISHING COMPOSITION AND METHOD UTILIZING ABRASIVE PARTICLES  
TREATED WITH AN AMINOSILANE

APPLICATION NUMBER: 12239249 FILING DATE: 09/26/2008  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHOD OF POLISHING A SILICON-CONTAINING DIELECTRIC

APPLICATION NUMBER: 12309212 FILING DATE: 01/09/2009  
PATENT NUMBER: ISSUE DATE:  
TITLE: CMP METHOD FOR METAL-CONTAINING SUBSTRATES

APPLICATION NUMBER: 12311717 FILING DATE: 04/09/2009  
PATENT NUMBER: ISSUE DATE:  
TITLE: GLASS POLISHING COMPOSITIONS AND METHODS

APPLICATION NUMBER: 12312477 FILING DATE: 05/12/2009  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHODS FOR POLISHING ALUMINUM NITRIDE

APPLICATION NUMBER: 12317254 FILING DATE: 12/19/2008  
PATENT NUMBER: ISSUE DATE:  
TITLE: SLURRY COMPOSITION CONTAINING NON-IONIC POLYMER AND METHOD FOR  
USE

APPLICATION NUMBER: 12364253 FILING DATE: 02/02/2009  
PATENT NUMBER: 7846842 ISSUE DATE: 12/07/2010  
TITLE: POLISHING COMPOSITION AND METHOD FOR HIGH SILICON NITRIDE TO  
SILICON OXIDE REMOVAL RATE RATIOS

APPLICATION NUMBER: 12364937 FILING DATE: 02/03/2009  
PATENT NUMBER: ISSUE DATE:  
TITLE: POLISHING COMPOSITION FOR NICKEL-PHOSPHOROUS MEMORY DISKS

APPLICATION NUMBER: 12384161 FILING DATE: 04/01/2009  
PATENT NUMBER: ISSUE DATE:  
TITLE: CMP METHOD FOR IMPROVED OXIDE REMOVAL RATE

APPLICATION NUMBER: 12384266 FILING DATE: 04/02/2009  
PATENT NUMBER: ISSUE DATE:  
TITLE: POLISHING COMPOSITION AND METHOD FOR HIGH SILICON NITRIDE TO  
SILICON OXIDE REMOVAL RATE RATIOS

APPLICATION NUMBER: 12387506 FILING DATE: 05/04/2009  
PATENT NUMBER: ISSUE DATE:  
TITLE: POLISHING SILICON CARBIDE

APPLICATION NUMBER: 12393489 FILING DATE: 02/26/2009  
PATENT NUMBER: 8101093 ISSUE DATE: 01/24/2012  
TITLE: CHEMICAL-MECHANICAL POLISHING COMPOSITION AND METHOD FOR USING  
THE SAME

APPLICATION NUMBER: 12455631 FILING DATE: 06/04/2009  
PATENT NUMBER: ISSUE DATE:  
TITLE: POLISHING COMPOSITION FOR NICKEL-PHOSPHOROUS MEMORY DISKS

APPLICATION NUMBER: 12462067 FILING DATE: 07/29/2009  
PATENT NUMBER: ISSUE DATE:  
TITLE: POLISHING COMPOSITION CONTAINING POLYETHER AMINE

APPLICATION NUMBER: 12462638 FILING DATE: 09/16/2009  
PATENT NUMBER: ISSUE DATE:  
TITLE: COMPOSITION AND METHOD FOR POLISHING BULK SILICON

APPLICATION NUMBER: 12476073 FILING DATE: 06/01/2009  
PATENT NUMBER: ISSUE DATE:  
TITLE: WIRE SAW SLURRY RECYCLING PROCESS

APPLICATION NUMBER: 12584343 FILING DATE: 09/03/2009  
PATENT NUMBER: ISSUE DATE:  
TITLE: BARRIER SLURRY FOR LOW-K DIELECTRICS

APPLICATION NUMBER: 12630288 FILING DATE: 12/03/2009  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHOD TO SELECTIVELY POLISH SILICON CARBIDE FILMS

APPLICATION NUMBER: 12631977 FILING DATE: 12/07/2009  
PATENT NUMBER: ISSUE DATE:  
TITLE: METHODS AND APPARATUS FOR CHEMICAL-MECHANICAL POLISHING  
UTILIZING LOW SUSPENDED SOLIDS POLISHING COMPOSITIONS

APPLICATION NUMBER: 12670495 FILING DATE: 01/25/2010  
PATENT NUMBER: ISSUE DATE:  
TITLE: COMPOSITIONS AND METHODS FOR CHEMICAL-MECHANICAL POLISHING OF  
PHASE CHANGE MATERIALS

APPLICATION NUMBER: 12673057 FILING DATE: 02/11/2010  
PATENT NUMBER: ISSUE DATE:  
TITLE: POLISHING PAD

APPLICATION NUMBER: 12676418 FILING DATE: 03/04/2010  
PATENT NUMBER: ISSUE DATE:  
TITLE: CMP SENSOR AND CONTROL SYSTEM

APPLICATION NUMBER: 12761016 FILING DATE: 04/15/2010  
PATENT NUMBER: ISSUE DATE:  
TITLE: CMP POROUS PAD WITH PARTICLES IN A POLYMERIC MATRIX

APPLICATION NUMBER: 12762180 FILING DATE: 04/16/2010  
PATENT NUMBER: ISSUE DATE:  
TITLE: COMPOSITION AND METHOD FOR POLISHING BULK SILICON

APPLICATION NUMBER: 12764268 FILING DATE: 04/21/2010  
PATENT NUMBER: ISSUE DATE:  
TITLE: OXIDATION-STABILIZED CMP COMPOSITIONS AND METHODS

APPLICATION NUMBER: 12807324 FILING DATE: 09/02/2010  
PATENT NUMBER: ISSUE DATE:  
TITLE: SILICON POLISHING COMPOSITIONS WITH HIGH RATE AND LOW  
DEFECTIVITY

APPLICATION NUMBER: 12837705 FILING DATE: 07/16/2010  
PATENT NUMBER: ISSUE DATE:  
TITLE: GROOVED CMP POLISHING PAD

APPLICATION NUMBER: 12838813 FILING DATE: 07/19/2010  
PATENT NUMBER: ISSUE DATE:  
TITLE: CMP SYSTEM UTILIZING HALOGEN ADDUCT

APPLICATION NUMBER: 12854470 FILING DATE: 08/11/2010  
PATENT NUMBER: ISSUE DATE:  
TITLE: COMPOSITIONS FOR CMP OF SEMICONDUCTOR MATERIALS

APPLICATION NUMBER: 12952242 FILING DATE: 11/23/2010  
PATENT NUMBER: ISSUE DATE:  
TITLE: METAL CATIONS FOR INITIATING POLISHING

APPLICATION NUMBER: 12971714 FILING DATE: 12/17/2010  
PATENT NUMBER: ISSUE DATE:  
TITLE: COMPOSITION AND METHOD FOR POLISHING POLYSILICON

APPLICATION NUMBER: 13004113 FILING DATE: 01/11/2011  
PATENT NUMBER: ISSUE DATE:  
TITLE: METAL-PASSIVATING CMP COMPOSITIONS AND METHODS

APPLICATION NUMBER: 13087857 FILING DATE: 04/15/2011  
PATENT NUMBER: ISSUE DATE:  
TITLE: COMPOSITIONS AND METHODS FOR SELECTIVE POLISHING OF SILICON  
NITRIDE MATERIALS

APPLICATION NUMBER: 13133784 FILING DATE: 06/09/2011  
PATENT NUMBER: ISSUE DATE:  
TITLE: WIRESAW APPARATUS AND METHOD FOR CONTINUOUS REMOVAL OF MAGNETIC  
IMPURITIES DURING WIRESAW CUTTING

APPLICATION NUMBER: 13133857 FILING DATE: 06/09/2011  
PATENT NUMBER: ISSUE DATE:  
TITLE: COMPOSITION FOR IMPROVING DRYNESS DURING WIRE SAWING

APPLICATION NUMBER: 13139017 FILING DATE: 08/26/2011  
PATENT NUMBER: ISSUE DATE:  
TITLE: WIRESAW CUTTING METHOD

APPLICATION NUMBER: 13139046 FILING DATE: 06/10/2011  
PATENT NUMBER: ISSUE DATE:  
TITLE: CUTTING FLUID COMPOSITION FOR WIRESAWING

APPLICATION NUMBER: 13167467 FILING DATE: 06/23/2011  
PATENT NUMBER: ISSUE DATE:  
TITLE: DILUTABLE CMP COMPOSITION CONTAINING A SURFACTANT

APPLICATION NUMBER: 13210875 FILING DATE: 08/16/2011  
PATENT NUMBER: ISSUE DATE:  
TITLE: CMP SLURRY RECYCLING SYSTEM AND METHODS

APPLICATION NUMBER: 13237881 FILING DATE: 09/20/2011  
PATENT NUMBER: ISSUE DATE:  
TITLE: COMPOSITION AND METHOD FOR POLISHING ALUMINUM SEMICONDUCTOR  
SUBSTRATES

APPLICATION NUMBER: 13258112 FILING DATE: 09/21/2011  
PATENT NUMBER: ISSUE DATE:  
TITLE: SELF-CLEANING WIRESAW APPARATUS AND METHOD

APPLICATION NUMBER: 13351339 FILING DATE: 01/17/2012  
PATENT NUMBER: ISSUE DATE:  
TITLE: SILICON POLISHING COMPOSITIONS WITH IMPROVED PSD PERFORMANCE

APPLICATION NUMBER: 13379911 FILING DATE: 12/21/2011  
PATENT NUMBER: ISSUE DATE:  
TITLE: CMP COMPOSITIONS AND METHODS FOR SUPPRESSING POLYSILICON REMOVAL  
RATES

APPLICATION NUMBER: 29337774 FILING DATE: 05/29/2009  
PATENT NUMBER: D640057 ISSUE DATE: 06/21/2011  
TITLE: POLISHING PAD CARRIER

ASSIGNMENT RECORDATION BRANCH  
PUBLIC RECORDS DIVISION

**NOTICE OF SECURITY INTEREST IN  
PATENTS**

U.S. Department of Commerce  
U.S. Patent and Trademark Office

Please be advised that the undersigned has granted a continuing security interest in, and a continuing lien upon, all of the patents and patent applications described on Exhibit A attached hereto to **BANK OF AMERICA, N.A.**, a national banking association, as Administrative Agent for each of the Secured Parties (the "Administrative Agent") pursuant to a Intellectual Property Security Agreement (the "Security Agreement") dated as of February 13, 2012 by and among **CABOT MICROELECTRONICS CORPORATION**, a Delaware corporation (the "Borrower") and each of the undersigned Subsidiaries of the Borrower (each a "Grantor" and collectively, the "Grantors").

The Administrative Agent's security interest in the described patents and patent applications can be terminated only in accordance with the terms of the Security Agreement.


[Signature page follows.]



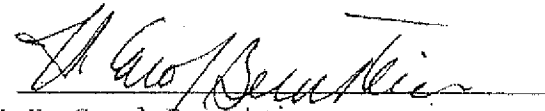
Very truly yours.

GRANTORS:

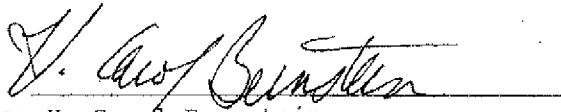
**CABOT MICROELECTRONICS CORPORATION**

By:   
Name: H. Carol Bernstein  
Title: Vice President, Secretary and  
General Counsel

**CABOT MICROELECTRONICS GLOBAL  
CORPORATION**

By:   
Name: H. Carol Bernstein  
Title: Vice President and Secretary

**CABOT MICROELECTRONICS POLISHING  
CORPORATION**

By:   
Name: H. Carol Bernstein  
Title: Vice President and Secretary

**QED TECHNOLOGIES INTERNATIONAL,  
INC.**

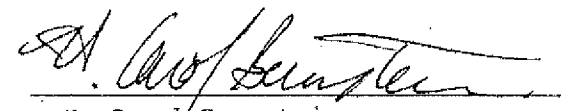
By:   
Name: H. Carol Bernstein  
Title: Vice President, General Counsel,  
and Assistant Secretary

EXHIBIT A

Patents and Patent Applications as of the Closing Date

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
5-Dec-97	97309806.4	7-Sep-05	0 846 742	Austria	CMC
28-Jul-98	98305999.9	9-Feb-05	0 896 042	Austria	CMC
3-Jun-04	04776265.3	10-Dec-08	1 651 388	Austria	CMC
5-Jan-05	05705006.4	23-Oct-09	1 702 015	Austria	CMC
10-Jun-05	05760404.3	7-Nov-07	1 773 959	Austria	CMC
25-Nov-97	97309476.6	13-Mar-02	0 844 290	Belgium	CMC
28-Jul-98	98305999.9	9-Feb-05	0 896 042	Belgium	CMC
25-Jun-99	99930776.2	14-Aug-02	1 090 083	Belgium	CMC
26-Jul-00	00950734.4	20-Aug-08	1 218 464	Belgium	CMC
3-Apr-01	01924609.9	3-Aug-05	1 272 579	Belgium	CMC
22-May-02	02737128.5	27-Jul-11	1 389 152	Belgium	QED
3-Jun-04	04776265.3	10-Dec-08	1 651 388	Belgium	CMC
10-Jun-05	05760404.3	7-Nov-07	1 773 959	Belgium	CMC
21-Oct-05	05817425.1	21-Jan-09	1 829 093	Belgium	CMC
15-Sep-06	0616641-5			Brazil	CMC
3-Jun-94	2163671	25-Oct-05	2,163,671	Canada	QED
3-Jun-94	2497731	7-Feb-06	2,497,731	Canada	QED
3-Jun-94	2497732	1-Mar-11	2,497,732	Canada	QED
15-Sep-06	2623385	26-Jul-11	2,623,385	Canada	CMC
1-Sep-95	95196473.9	31-Oct-01	95196473.9	China	CMC
21-Nov-97	97181180.6	17-Dec-03	97181180.6	China	CMC
19-Dec-97	97181972.6	29-Sep-04	97181972.6	China	CMC
27-Jul-98	98809580.7	11-Jul-07	98809580.7	China	CMC
27-Jul-98	200610077360.7			China	CMC
18-Mar-99	99806193.X	14-Jul-04	99806193.X	China	CMC
25-Jun-99	99809559.1	3-Nov-04	99809559.1	China	CMC
25-Jun-99	99809560.5	21-Jul-04	99809560.5	China	CMC
5-Jul-00	00809281.8	6-Jul-05	809281.8	China	CMC

<sup>1</sup> QED= QED Technologies International, Inc.; CMC=Cabot Microelectronics Corporation

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
26-Jul-00	00811638.5	6-Jul-05	811638.5	China	CMC
10-Aug-00	00811637.7	13-Feb-08	811637.7	China	CMC
10-Aug-00	00811639.3	5-Sep-07	811639.3	China	CMC
31-Oct-00	00815146.6	28-Sep-05	815146.6	China	CMC
15-Nov-00	00815721.9	18-Aug-04	815721.9	China	CMC
15-Dec-00	00817090.8	13-Apr-05	817090.8	China	CMC
3-Apr-01	01807598.3	6-Jul-05	1807598.3	China	CMC
14-Jun-01	01811268.4	31-Aug-05	1811268.4	China	CMC
14-Jun-01	01812364.3	5-Apr-06	1812364.3	China	CMC
4-Jan-02	02803728.6	10-May-06	2803728.6	China	CMC
16-Jan-02	02803940.8	6-Jun-07	2803940.8	China	CMC
18-Jan-02	02803949.1	6-Sep-06	2803949.1	China	CMC
5-Feb-02	02803460.0	24-Jun-09	2803460.0	China	CMC
6-Sep-02	02818538.2	5-Mar-08	2818538.2	China	CMC
24-Sep-02	02821254.1	15-Oct-08	2821254.1	China	CMC
3-Dec-02	02824410.9	5-Sep-07	2824410.9	China	CMC
13-Jan-03	03802445.4	20-Aug-08	3802445.4	China	CMC
13-Jan-03	200810130506.9	14-Jul-10	200810130506	China	CMC
10-Feb-03	03803719.X	11-Jul-07	03803719.X	China	CMC
5-Mar-03	03808936.X	27-Dec-06	03808936.X	China	CMC
21-May-03	03817583.5	2-Apr-08	3817583.5	China	CMC
21-May-03	1110093294			China	CMC
21-May-03	200810004970.3	4-May-11	200810004970	China	CMC
26-May-03	03813172.2	21-Mar-07	3813172.2	China	CMC
25-Jun-03	03817168.6	27-Dec-06	3817168.6	China	CMC
29-Sep-03	03824065.3	5-Dec-07	3824065.3	China	CMC
6-Oct-03	200380102155.6	17-Feb-10	200380102155	China	CMC
2-Feb-04	480002763.4			China	CMC
4-Feb-04	200480003457.2	19-Dec-07	200480003457	China	CMC
19-Feb-04	200480005222.7	11-Aug-10	200480005222	China	CMC
19-Apr-04	201010578445.X			China	CMC
3-Jun-04	2004800016708	11-Mar-09	200480016708	China	CMC
3-Jun-04	200480016709.5	24-Feb-10	200480016709	China	CMC
10-Sep-04	200480025793.7			China	CMC
18-Nov-04	200480041546.6			China	QED
18-Nov-04	201010514912.2	29-Jul-09	200480041546	China	QED

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
18-Nov-04	200910135491.X	4-May-11	200910135491	China	QED
18-Nov-04	201110339355.X			China	QED
5-Jan-05	200580001954.3	26-Jan-11	200580001954	China	CMC
14-Mar-05	2005800008352	25-Nov-09	200580008352	China	CMC
14-Mar-05	200580008353.5	3-Jun-09	200580008353	China	CMC
14-Mar-05	200580008582.7	10-Aug-11	200580008582	China	CMC
14-Mar-05	200580009637.6	1-Sep-10	200580009637	China	CMC
23-May-05	200580022800.2	14-Jul-10	200580022800	China	CMC
10-Jun-05	200580019841.6	13-Jul-11	200580019841	China	CMC
10-Jun-05	200580019842	26-Aug-09	200580019842	China	CMC
1-Jul-05	200580025563.5			China	CMC
31-Aug-05	200580029151.9	13-Jul-11	200580029151	China	CMC
11-Oct-05	200580034854			China	CMC
21-Oct-05	200580040887.6			China	CMC
21-Oct-05	200580036003.X			China	CMC
21-Oct-05	201110150388.X			China	CMC
31-Mar-06	200680019115.9	6-Apr-11	200680019115	China	CMC
5-Apr-06	200680009907.8			China	QED
5-Apr-06	201110170466.2			China	QED
5-Apr-06	201110170847			China	QED
19-Apr-06	200680018565.6	19-May-10	200680018565	China	CMC
24-May-06	200680022730.5			China	CMC
6-Jun-06	200680021023.4			China	CMC
22-Jun-06	200680023157.X			China	CMC
8-Aug-06	200680037844.7			China	CMC
9-Aug-06	200680033516.X	13-Jul-11	200680033516	China	CMC
15-Sep-06	200680043940.2			China	CMC
15-Sep-06	200680044775.2	24-Aug-11	200680044775	China	CMC
19-Sep-06	200680043840.X			China	CMC
21-Sep-06	200680039664.2			China	CMC
29-Sep-06	200680044961.6	1-Dec-10	200680044961	China	CMC
12-Oct-06	200680039784.2	26-Jan-11	200680039784	China	CMC
24-Oct-06	200680044281.4	29-Dec-10	200680044281	China	CMC
8-Nov-06	200680046051.1			China	CMC
31-Jan-07	200780002906.5			China	CMC
14-Feb-07	200780002916.9			China	CMC

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
6-Mar-07	200780006548.5			China	CMC
6-Mar-07	200780006685.9			China	CMC
6-Mar-07	200780016365.7			China	CMC
6-Mar-07	201210021422.8			China	CMC
16-Mar-07	200780006695.2			China	CMC
18-Apr-07	200780015036.5			China	CMC
30-Apr-07	200780016044.1			China	CMC
22-May-07	200780027104.X			China	CMC
7-Jun-07	200780026767.X			China	CMC
13-Jun-07	200780024178.8			China	CMC
14-Jun-07	200780024138.3			China	CMC
6-Jul-07	200780026307.7			China	CMC
10-Jul-07	200780027264.4			China	CMC
12-Jul-07	200780027114.3			China	CMC
29-Aug-07	200780031740.X			China	CMC
4-Sep-07	200780032800.X	18-May-11	200780032800	China	CMC
7-Sep-07	200780033428.4			China	CMC
16-Oct-07	200780038453.1			China	CMC
1-Nov-07	200780040805.7			China	CMC
7-Nov-07	200780041887.7			China	CMC
4-Dec-07	200780045436			China	CMC
31-Jan-08	200880002578.3			China	CMC
22-Feb-08	200880006408.2			China	CMC
1-May-08	200880014807.3			China	CMC
24-Jul-08	200880100535.9			China	CMC
25-Jul-08	200880101554.3			China	CMC
13-Aug-08	200880102761			China	CMC
19-Aug-08	200880104906			China	CMC
19-Sep-08	200880107342.6			China	CMC
19-Sep-08	200880108217.7			China	CMC
20-Nov-08	200880117903			China	CMC
17-Dec-08	200880120789.7			China	CMC
8-Jan-09	200980107309.8			China	CMC
2-Mar-09	200980116265.5			China	CMC
13-Mar-09	200980110032.4			China	CMC
8-Apr-09	200980119868			China	QED

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
7-May-09	200980118582			China	CMC
6-Jul-09	200980126743			China	CMC
23-Jul-09	200980130098.X			China	CMC
3-Sep-09	200980136735.4			China	CMC
4-Dec-09	200980155146			China	CMC
17-Dec-09	200980151100.1			China	CMC
21-Dec-09	200980151086.5			China	CMC
21-Dec-09	200980151099.2			China	CMC
21-Dec-09	200980151101.6			China	CMC
21-Dec-09	200980151102			China	CMC
28-Jan-10	201080012745.X			China	CMC
2-Mar-10	201080010348.9			China	QED
3-Jun-10	PCT/US2010/037158			China	CMC
18-Jun-10	PCT/US2010/039118			China	CMC
15-Jul-10	PCT/US2010/042073			China	CMC
5-Dec-97	05004891.7			Europe	CMC
11-Oct-99	99307999.5			Europe	CMC
10-Aug-00	07003350.9			Europe	CMC
6-Sep-02	02757659.4			Europe	CMC
3-Dec-02	02802586.4			Europe	CMC
5-Mar-03	03744188.8			Europe	CMC
21-May-03	03725504.9			Europe	CMC
4-Aug-03	03755733.7			Europe	QED
2-Feb-04	04707432.3			Europe	CMC
4-Feb-04	04708120.3			Europe	CMC
19-Feb-04	04712639.6			Europe	CMC
3-Jun-04	04754251.9			Europe	CMC
3-Jun-04	08017326.3			Europe	CMC
10-Sep-04	04783793.5			Europe	CMC
18-Nov-04	04811597.6			Europe	QED
5-Jan-05	05704970.2			Europe	CMC
14-Mar-05	05725594.5			Europe	CMC
23-May-05	05753826.6			Europe	CMC
1-Jul-05	05767671.0			Europe	CMC
1-Jul-05	11187617.3			Europe	CMC
31-Aug-05	05858600.9			Europe	CMC

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Parent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
11-Oct-05	05810260.9			Europe	CMC
21-Oct-05	05815470.9			Europe	CMC
21-Oct-05	05815606.8			Europe	CMC
31-Mar-06	06740342.8			Europe	CMC
5-Apr-06	06749263.7			Europe	QED
19-Apr-06	06750664.2			Europe	CMC
24-May-06	06760366.2			Europe	CMC
6-Jun-06	06772263.7			Europe	CMC
22-Jun-06	06851111.2			Europe	CMC
15-Sep-06	06803687.0			Europe	CMC
15-Sep-06	06814867.5			Europe	CMC
19-Sep-06	06814919.4			Europe	CMC
21-Sep-06	06803982.5			Europe	CMC
12-Oct-06	06825857.3			Europe	CMC
24-Oct-06	06817322.8			Europe	CMC
31-Jan-07	07717147.8			Europe	CMC
6-Mar-07	07752306.6			Europe	CMC
6-Mar-07	07752308.2			Europe	CMC
6-Mar-07	07752423.9			Europe	CMC
16-Mar-07	07753344.6			Europe	CMC
18-Apr-07	07755680.1			Europe	CMC
7-Jun-07	07809387.9			Europe	CMC
13-Jun-07	07796076.3			Europe	CMC
14-Jun-07	07796094.6			Europe	CMC
5-Jul-07	07013341.8			Europe	CMC
6-Jul-07	07796716.4			Europe	CMC
10-Jul-07	07836036.9			Europe	CMC
12-Jul-07	07810367.8			Europe	CMC
7-Sep-07	07837904.7			Europe	CMC
1-Nov-07	07853101.9			Europe	CMC
7-Nov-07	07861800.6			Europe	CMC
4-Dec-07	07867624.4			Europe	CMC
31-Jan-08	08725102.1			Europe	CMC
24-Jul-08	08794699.2			Europe	CMC
25-Jul-08	08794758.6			Europe	CMC
13-Aug-08	08795288.3			Europe	CMC

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
19-Aug-08	08795428.5			Europe	CMC
19-Sep-08	08832860.4			Europe	CMC
19-Sep-08	08834266.2			Europe	CMC
2-Mar-09	09716527.8			Europe	CMC
13-Mar-09	09722067.7			Europe	CMC
8-Apr-09	09729531.5			Europe	QED
7-May-09	09750923.6			Europe	CMC
6-Jul-09	09794806.1			Europe	CMC
23-Jul-09	09803244.4			Europe	CMC
3-Sep-09	09814870.3			Europe	CMC
4-Dec-09	09830728.3			Europe	CMC
17-Dec-09	09837913.4			Europe	CMC
21-Dec-09	09833868.4			Europe	CMC
21-Dec-09	09833869.2			Europe	CMC
21-Dec-09	09833872.6			Europe	CMC
21-Dec-09	09833874.2			Europe	CMC
2-Mar-10	10749207.6			Europe	QED
30-Mar-10	10764843.8			Europe	CMC
22-May-02	02737128.5	27-Jul-11	1 389 152	Finland	QED
3-Jun-94	94919329.6	10-Apr-02	0 703 847	France	QED
3-Oct-95	95306994.5	17-Jul-02	0 708 160	France	CMC
25-Nov-97	97309476.6	13-Mar-02	0 844 290	France	CMC
5-Dec-97	97309806.4	7-Sep-05	0 846 742	France	CMC
19-Dec-97	97951772.9	14-Apr-04	0 963 419	France	CMC
28-Jul-98	98305999.9	9-Feb-05	0 896 042	France	CMC
18-Mar-99	99912683.2	30-Aug-06	1 064 338	France	CMC
24-Mar-99	99915008.9	5-Jul-06	1 087 860	France	QED
25-Jun-99	99930776.2	14-Aug-02	1 090 083	France	CMC
25-Jun-99	99930777	23-Nov-05	1 098 948	France	CMC
31-Dec-99	99126243.7	29-Mar-06	1 018 398	France	QED
5-Jul-00	00943380.6	30-Aug-06	1 200 532	France	CMC
26-Jul-00	00950734.4	20-Aug-08	1 218 464	France	CMC
10-Aug-00	00952726.8	30-Mar-05	1 218 465	France	CMC
10-Aug-00	00953960.2	18-Apr-07	1 226 220	France	CMC
31-Oct-00	00991904.4	31-Mar-04	1 234 010	France	CMC
15-Nov-00	00979196.3	28-Jan-04	1 234 009	France	CMC



<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
15-Dec-00	00986423.2	26-Oct-05	1 242 557	France	CMC
3-Apr-01	01924609.9	3-Aug-05	1 272 579	France	CMC
14-Jun-01	01948384.1	29-Aug-07	1 299 490	France	CMC
14-Jun-01	01950299.6	8-Nov-06	1 299 489	France	CMC
20-Dec-01	01992273.1	12-Oct-11	1 349 701	France	QED
18-Jan-02	02709087.7	29-Mar-06	1 353 792	France	CMC
31-Jan-02	02707621.5	7-May-10	1 365 889	France	QED
5-Feb-02	02740116.5	6-Oct-04	1 368 157	France	CMC
22-May-02	02737128.5	27-Jul-11	1 389 152	France	QED
24-Sep-02	02776164.2	13-May-09	1 448 736	France	CMC
12-Dec-02	02027674.7	29-Mar-06	1 324 006	France	QED
10-Feb-03	03739720.5	26-Dec-07	1 483 349	France	CMC
26-May-03	03740859.8	26-Jul-06	1 534 795	France	CMC
29-Sep-03	03807926.5	6-Jun-07	1 560 890	France	CMC
6-Oct-03	03809403.3	4-Jul-07	1 567 306	France	CMC
19-Apr-04	04760040.8	30-Jun-10	1 620 518	France	CMC
3-Jun-04	04753997.8	21-Jul-10	1 638 735	France	CMC
3-Jun-04	04776265.3	10-Dec-08	1 651 388	France	CMC
14-Sep-04	04784079.8	21-Apr-10	1 667 816	France	CMC
5-Jan-05	05705006.4	30-Sep-09	1 702 015	France	CMC
14-Mar-05	05725517.6	4-Jan-12	1 730 246	France	CMC
10-Jun-05	05760404.3	7-Nov-07	1 773 959	France	CMC
10-Jun-05	05760474.6	14-Dec-11	1 797 151	France	CMC
21-Oct-05	05817425.1	21-Jan-09	1 829 093	France	CMC
9-Aug-06	06813337.0	12-Oct-11	1 924 666	France	CMC
3-Jun-94	94919329.6	10-Apr-02	69430370.4	Germany	QED
3-Oct-95	95306994.5	17-Jul-02	69527406.6	Germany	CMC
25-Nov-97	97309476.6	13-Mar-02	69710993.3	Germany	CMC
5-Dec-97	97309806.4	7-Sep-05	69734138	Germany	CMC
19-Dec-97	97951772.9	14-Apr-04	69728691.6	Germany	CMC
28-Jul-98	98305999.9	9-Feb-05	69828925	Germany	CMC
18-Mar-99	99912683.2	30-Aug-06	69933015.7	Germany	CMC
24-Mar-99	99915008.9	5-Jul-06	69932242.1	Germany	QED
25-Jun-99	99930776.2	14-Aug-02	69902539.7	Germany	CMC
25-Jun-99	99930777	23-Nov-05	69928537.2	Germany	CMC
31-Dec-99	99126243.7	9-Feb-06	69924595.8	Germany	QED

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
5-Jul-00	00943380.6	30-Aug-06	60030444.2	Germany	CMC
26-Jul-00	00950734.4	20-Aug-08	60039996.6	Germany	CMC
10-Aug-00	00952726.8	30-Mar-05	60019142.7	Germany	CMC
10-Aug-00	00953960.2	18-Apr-07	60034474.6	Germany	CMC
31-Oct-00	00991904.4	31-Mar-04	60009546	Germany	CMC
15-Nov-00	00979196.3	28-Jan-04	60008019.6	Germany	CMC
15-Dec-00	00986423.2	26-Oct-05	60023549.1	Germany	CMC
3-Apr-01	01924609.9	3-Aug-05	60112419.7	Germany	CMC
14-Jun-01	01948384.1	29-Aug-07	60130213.3	Germany	CMC
14-Jun-01	01950299.6	8-Nov-06	60124404.4	Germany	CMC
20-Dec-01	01992273.1	12-Oct-11	60145521.5	Germany	QED
18-Jan-02	02709087.7	29-Mar-06	60210258.8	Germany	CMC
31-Jan-02	02707621.5	7-May-10	60236577.5	Germany	QED
5-Feb-02	02740116.5	6-Oct-04	60201515.4	Germany	CMC
22-May-02	02737128.5	27-Jul-11	60240623.4	Germany	QED
24-Sep-02	02776164.2	13-May-09	60232356.8	Germany	CMC
12-Dec-02	02027674.7	29-Mar-06	60210195.6	Germany	QED
13-Jan-03	03731907.6	22-Mar-06	60304181.7	Germany	CMC
10-Feb-03	03739720.5	26-Dec-07	60318301.8	Germany	CMC
26-May-03	03740859.8	26-Jul-06	60307111.2	Germany	CMC
25-Jun-03	03765233.6	14-Feb-07	60311855	Germany	CMC
29-Sep-03	03807926.5	6-Jun-07	60314274.5	Germany	CMC
6-Oct-03	03809403.3	4-Jul-07	60314772	Germany	CMC
19-Apr-04	04760040.8	30-Jun-10	602004027901.3	Germany	CMC
3-Jun-04	04753997.8	21-Jul-10	602004028245.6	Germany	CMC
3-Jun-04	04776265.3	10-Dec-08	602004018321	Germany	CMC
14-Sep-04	04784079.8	21-Apr-10	602004026748.1	Germany	CMC
5-Jan-05	05705006.4	30-Sep-09	602005016887.7	Germany	CMC
14-Mar-05	05725517.6	4-Jan-12	602005031968.9	Germany	CMC
10-Jun-05	05760404.3	7-Nov-07	602005003235.5	Germany	CMC
10-Jun-05	05760474.6	14-Dec-11	1797151	Germany	CMC
21-Oct-05	05817425.1	21-Jan-09	602005012546.9	Germany	CMC
9-Aug-06	06813337.0	12-Oct-11	602006025102	Germany	CMC
16-Oct-07	112007002470.4			Germany	CMC
1-May-98	98103979.2	22-Mar-02	HK1004666	Hong Kong	CMC
21-Mar-00	00101722.3	18-Jun-04	HK1022661	Hong Kong	CMC

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
8-Jul-03	03104865.1	30-Sep-05	HK1052718B	Hong Kong	CMC
6-Dec-07	07113381.3	23-Oct-09	HK1105020	Hong Kong	QED
21-Nov-97	W-990529	12-Sep-02	ID0008805	Indonesia	CMC
3-Jun-94	94919329.6	10-Apr-02	0 703 847	Ireland	QED
3-Oct-95	95306994.5	17-Jul-02	0 708 160	Ireland	CMC
25-Nov-97	97309476.6	13-Mar-02	0 844 290	Ireland	CMC
28-Jul-98	98305999.9	9-Feb-05	0 896 042	Ireland	CMC
18-Mar-99	99912683.2	30-Aug-06	1 064 338	Ireland	CMC
25-Jun-99	99930776.2	14-Aug-02	1 090 083	Ireland	CMC
25-Jun-99	99930777	23-Nov-05	1 098 948	Ireland	CMC
5-Jul-00	00943380.6	30-Aug-06	1 200 532	Ireland	CMC
10-Aug-00	00953960.2	18-Apr-07	1 226 220	Ireland	CMC
15-Dec-00	00986423.2	26-Oct-05	1 242 557	Ireland	CMC
3-Apr-01	01924609.9	3-Aug-05	1 272 579	Ireland	CMC
14-Jun-01	01948384.1	29-Aug-07	1 299 490	Ireland	CMC
10-Feb-03	03739720.5	26-Dec-07	1 483 349	Ireland	CMC
25-Jun-03	03765233.6	14-Feb-07	1 556 455	Ireland	CMC
29-Sep-03	03807926.5	6-Jun-07	1 560 890	Ireland	CMC
6-Oct-03	03809403.3	4-Jul-07	1 567 306	Ireland	CMC
3-Jun-04	04753997.8	21-Jul-10	1 638 735	Ireland	CMC
3-Jun-04	04776265.3	10-Dec-08	1 651 388	Ireland	CMC
14-Sep-04	04784079.8	21-Apr-10	1 667 816	Ireland	CMC
5-Jan-05	05705006.4	30-Sep-09	1 702 015	Ireland	CMC
14-Mar-05	05725517.6	4-Jan-12	1 730 246	Ireland	CMC
10-Jun-05	05760404.3	7-Nov-07	1 773 959	Ireland	CMC
21-Oct-05	05817425.1	21-Jan-09	1 829 093	Ireland	CMC
28-Sep-95	115454	18-May-00	115454	Israel	CMC
21-Nov-97	130138	15-Jun-03	130138	Israel	CMC
21-Nov-97	153843	12-May-07	153843	Israel	CMC
27-Jul-98	134213	19-Mar-06	134213	Israel	CMC
5-Jan-05	176312	1-Mar-11	176312	Israel	CMC
14-Mar-05	15969			Israel	CMC
14-Mar-05	176669			Israel	CMC
14-Mar-05	176955			Israel	CMC
23-May-05	179112	1-Feb-11	179112	Israel	CMC
10-Jun-05	179570			Israel	CMC

Application Date	Application Number	Grant Date	Patent Number	Country	Owner as of the Closing Date
10-Jun-05	179571	1-Jul-11	179571	Israel	CMC
1-Jul-05	179941	29-Jul-11	179941	Israel	CMC
11-Oct-05	102170	29-Dec-11	182170	Israel	CMC
21-Oct-05	182536			Israel	CMC
21-Oct-05	182537			Israel	CMC
21-Oct-05	182797	1-Dec-11	182797	Israel	CMC
31-Mar-06	186038			Israel	CMC
19-Apr-06	186687			Israel	CMC
24-May-06	187705			Israel	CMC
6-Jun-06	187944			Israel	CMC
22-Jun-06	187706			Israel	CMC
9-Aug-06	189504			Israel	CMC
15-Sep-06	190426			Israel	CMC
21-Sep-06	190428			Israel	CMC
12-Oct-06	190342			Israel	CMC
31-Jan-07	192528			Israel	CMC
6-Mar-07	192527			Israel	CMC
6-Mar-07	192551			Israel	CMC
6-Mar-07	193976			Israel	CMC
16-Mar-07	192550			Israel	CMC
18-Apr-07	194461			Israel	CMC
7-Jun-07	195698			Israel	CMC
13-Jun-07	195697			Israel	CMC
14-Jun-07	195699			Israel	CMC
6-Jul-07	196222			Israel	CMC
10-Jul-07	196221	29-Dec-11	196221	Israel	CMC
12-Jul-07	196220			Israel	CMC
1-Nov-07	198373			Israel	CMC
31-Jan-08	199951			Israel	CMC
24-Jul-08	203300			Israel	CMC
25-Jul-08	203301			Israel	CMC
13-Aug-08	203461			Israel	CMC
19-Sep-08	203476			Israel	CMC
19-Sep-08	203477			Israel	CMC
2-Mar-09	207886			Israel	CMC
13-Mar-09	207610			Israel	CMC

Application Date	Application Number	Grant Date	Patent Number	Country	Owner as of the Closing Date
23-Jul-09	210029			Israel	CMC
3-Sep-09	211576			Israel	CMC
17-Dec-09	213230			Israel	CMC
21-Dec-09	213228			Israel	CMC
21-Dec-09	213229			Israel	CMC
21-Dec-09	213231			Israel	CMC
21-Dec-09	213232			Israel	CMC
2-Mar-10	214273			Israel	QED
3-Jun-94	94919329.6	10-Apr-02	0 703 847	Italy	QED
3-Oct-95	95306994.5	17-Jul-02	0 708 160	Italy	CMC
25-Nov-97	97309476.6	13-Mar-02	0 844 290	Italy	CMC
5-Dec-97	97309806.4	7-Sep-05	0 846 742	Italy	CMC
19-Dec-97	97951772.9	14-Apr-04	0 963 419	Italy	CMC
28-Jul-98	98305999.9	9-Feb-05	0 896 042	Italy	CMC
18-Mar-99	99912683.2	30-Aug-06	1 064 338	Italy	CMC
25-Jun-99	99930776.2	14-Aug-02	1 090 083	Italy	CMC
25-Jun-99	99930777	23-Nov-05	1 098 948	Italy	CMC
5-Jul-00	00945380.6	30-Aug-06	1 200 532	Italy	CMC
26-Jul-00	00950734.4	20-Aug-08	1 218 464	Italy	CMC
10-Aug-00	00952726.8	30-Mar-05	1 218 465	Italy	CMC
10-Aug-00	00953960.2	18-Apr-07	1 226 220	Italy	CMC
31-Oct-00	00991904.4	31-Mar-04	1 234 010	Italy	CMC
15-Nov-00	00979196.3	28-Jan-04	1 234 009	Italy	CMC
15-Dec-00	00986423.2	26-Oct-05	1 242 557	Italy	CMC
3-Apr-01	01924609.9	3-Aug-05	1 272 579	Italy	CMC
14-Jun-01	01948384.1	29-Aug-07	1 299 490	Italy	CMC
14-Jun-01	01950299.6	8-Nov-06	1 299 489	Italy	CMC
20-Dec-01	01992273.1	12-Oct-11	1 349 701	Italy	QED
18-Jan-02	02709087.7	29-Mar-06	1 353 792	Italy	CMC
31-Jan-02	02707621.5	7-May-10	1 365 889	Italy	QED
5-Feb-02	02740116.5	6-Oct-04	1 368 157	Italy	CMC
22-May-02	02737128.5	27-Jul-11	1 389 152	Italy	QED
24-Sep-02	02776164.2	13-May-09	1 448 736	Italy	CMC
10-Feb-03	03739720.5	26-Dec-07	1 483 349	Italy	CMC
26-May-03	03740859.8	26-Jul-06	1 534 795	Italy	CMC
29-Sep-03	03807926.5	6-Jun-07	1 560 890	Italy	CMC

Application Date	Application Number	Grant Date	Patent Number	Country	Owner as of the Closing Date
6-Oct-03	03809403.3	4-Jul-07	1 567 306	Italy	CMC
19-Apr-04	04760040.8	30-Jun-10	1 620 518	Italy	CMC
3-Jun-04	04753997.8	21-Jul-10	1 638 735	Italy	CMC
3-Jun-04	04776265.3	10-Dec-08	1 651 388	Italy	CMC
14-Sep-04	04784079.8	21-Apr-10	1 667 816	Italy	CMC
5-Jan-05	05705006.4	30-Sep-09	1 702 015	Italy	CMC
10-Jun-05	05760404.3	7-Nov-07	1 773 959	Italy	CMC
21-Oct-05	05817425.1	21-Jan-09	1 829 093	Italy	CMC
3-Jun-94	2004-239946	13-May-11	4741212	Japan	QED
5-Oct-95	258875/95	6-Dec-02	3377892	Japan	CMC
26-Nov-97	9-324153	30-Jun-06	3822339	Japan	CMC
9-Dec-97	9-338809	16-Apr-10	4494538	Japan	CMC
19-Dec-97	2008-065541			Japan	CMC
28-Jul-98	10-212514			Japan	CMC
28-Jul-98	2011-272579			Japan	CMC
18-Mar-99	2007-008250			Japan	CMC
18-Mar-99	2011-176512			Japan	CMC
24-Mar-99	2000-537674	24-Aug-07	4002732	Japan	QED
25-Jun-99	2000-557316	22-Nov-07	4044287	Japan	CMC
25-Jun-99	2000-557321	20-Feb-09	4261058	Japan	CMC
25-Jun-99	2007-158007			Japan	CMC
22-Oct-99	99300890	27-Sep-02	3353831	Japan	CMC
27-Dec-99	1999-369992	27-Nov-09	4412783	Japan	QED
28-Apr-00	2000-131737	10-Jun-05	3686307	Japan	CMC
5-Jul-00	2006-306726			Japan	CMC
10-Aug-00	2001-517628	16-Oct-09	4391715	Japan	CMC
10-Aug-00	2001-517629	19-Sep-08	4188598	Japan	CMC
31-Oct-00	2001-535478			Japan	CMC
15-Nov-00	2001-539035			Japan	CMC
15-Nov-00	2001-539036			Japan	CMC
15-Dec-00	2001-545482	26-Dec-08	4237439	Japan	CMC
3-Apr-01	2001-572638	1-Jun-07	3964680	Japan	CMC
14-Jun-01	2002-507952	14-May-10	4510374	Japan	CMC
14-Jun-01	2002-507953			Japan	CMC
15-Nov-01	2001-350118	25-Jan-08	4070980	Japan	QED
20-Dec-01	2008-102079			Japan	QED

Application Date	Application Number	Grant Date	Patent Number	Country	Owner as of the Closing Date
20-Dec-01	2009-287496			Japan	QED
18-Jan-02	2002-557571	22-Oct-10	4611611	Japan	CMC
31-Jan-02	2002-560827	4-Apr-08	4105950	Japan	QED
5-Feb-02	2002-564089	4-Sep-09	4369122	Japan	CMC
22-May-02	2002-591204	6-Mar-09	4270880	Japan	QED
6-Sep-02	2003-530778	25-Mar-11	4708701	Japan	CMC
3-Dec-02	2003-551828	19-Nov-10	4629337	Japan	CMC
18-Dec-02	2002-366136	23-Apr-10	4498672	Japan	QED
13-Jan-03	2003-562207	3-Sep-10	4579545	Japan	CMC
13-Jan-03	2009-183386			Japan	CMC
10-Feb-03	2003-567999	27-May-11	4750362	Japan	CMC
5-Mar-03	2003-574750	5-Nov-10	4620353	Japan	CMC
37762	2009-143456			Japan	CMC
21-May-03	2004-507027	12-Nov-10	4624781	Japan	CMC
26-May-03	2004-511407	1-Jul-11	4773091	Japan	CMC
6-Jun-03	2003-162424	29-Feb-08	4087753	Japan	CMC
25-Jun-03	2004-522604	29-Jul-11	4791037	Japan	CMC
4-Aug-03	2010-015358			Japan	QED
29-Sep-03	2010-094057			Japan	CMC
6-Oct-03	2010-066030			Japan	CMC
2-Feb-04	2006-503246			Japan	CMC
4-Feb-04	2006-503285	13-May-11	4740110	Japan	CMC
4-Feb-04	2011-027371			Japan	CMC
19-Feb-04	2006-502501	25-Mar-11	4709136	Japan	CMC
19-Apr-04	2006-513149	15-Jul-11	4782673	Japan	CMC
3-Jun-04	2006-517168			Japan	CMC
3-Jun-04	2006-517174			Japan	CMC
3-Jun-04	2006-518637			Japan	CMC
3-Jun-04	2010-229045			Japan	CMC
10-Sep-04	2006-526345	19-Aug-11	4805826	Japan	CMC
10-Sep-04	2011-095184			Japan	CMC
14-Sep-04	2006-526983			Japan	CMC
18-Nov-04	2006-545667	28-Apr-11	4732362	Japan	QED
5-Jan-05	2006-549348	1-Jul-11	4773370	Japan	CMC
5-Jan-05	2006-549362			Japan	CMC
14-Mar-05	2007-505000	4-Nov-11	4856055	Japan	CMC

Application Date	Application Number	Grant Date	Patent Number	Country	Owner as of the Closing Date
14-Mar-05	2007-505002			Japan	CMC
14-Mar-05	2011-264253			Japan	CMC
23-May-05	2007-515251			Japan	CMC
23-May-05	2011-144599			Japan	CMC
10-Jun-05	2007-516582			Japan	CMC
10-Jun-05	2007-516583	29-Jul-11	4790707	Japan	CMC
10-Jun-05	2011-275846			Japan	CMC
1-Jul-05	2007-523580	21-May-10	4516119	Japan	CMC
31-Aug-05	2007-544336			Japan	CMC
11-Oct-05	2007-536823			Japan	CMC
21-Oct-05	2007-538999			Japan	CMC
21-Oct-05	2007-539010			Japan	CMC
21-Oct-05	2007-540341			Japan	CMC
2-Dec-05	2005349782	28-Oct-11	4851174	Japan	CMC
2-Dec-05	2009-102674			Japan	CMC
31-Mar-06	2009-502741			Japan	CMC
5-Apr-06	2006-104616	15-Apr-11	4723409	Japan	CMC
5-Apr-06	2008-505464			Japan	QED
19-Apr-06	2008-508918			Japan	CMC
10-May-06	2006-131649			Japan	CMC
24-May-06	2008-518178			Japan	CMC
6-Jun-06	2008-516931			Japan	CMC
22-Jun-06	2008-519451			Japan	CMC
8-Aug-06	2008-526988			Japan	CMC
9-Aug-06	2008-526997			Japan	CMC
15-Sep-06	2008-533415			Japan	CMC
15-Sep-06	2008-533426			Japan	CMC
19-Sep-06	2008-532315			Japan	CMC
21-Sep-06	2008-533451			Japan	CMC
29-Sep-06	2008-534569			Japan	CMC
12-Oct-06	2008-537751			Japan	CMC
24-Oct-06	2008-538918			Japan	CMC
8-Nov-06	2008-544344			Japan	CMC
31-Jan-07	2008-553321			Japan	CMC
14-Feb-07	2008-554444			Japan	CMC
6-Mar-07	2009-500376			Japan	CMC



<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
6-Mar-07	2009-501432			Japan	CMC
6-Mar-07	2009-501436			Japan	CMC
16-Mar-07	2009-501475			Japan	CMC
18-Apr-07	2009-507731			Japan	CMC
22-May-07	2009-513175			Japan	CMC
7-Jun-07	2009-514374			Japan	CMC
13-Jun-07	2009-518144			Japan	CMC
14-Jun-07	2009-518147			Japan	CMC
6-Jul-07	2009-519467			Japan	CMC
10-Jul-07	2009-520758			Japan	CMC
12-Jul-07	2009-521753			Japan	CMC
22-Jul-07	2007-190266	28-Oct-09	4353991	Japan	CMC
29-Aug-07	2009-526691			Japan	CMC
4-Sep-07	2009-527375			Japan	CMC
7-Sep-07	2009-527432			Japan	CMC
16-Oct-07	2009-533335			Japan	CMC
1-Nov-07	2009-535365			Japan	CMC
7-Nov-07	2009-536289			Japan	CMC
4-Dec-07	2009-540273			Japan	CMC
31-Jan-08	2009-548322			Japan	CMC
22-Feb-08	2009-551685			Japan	CMC
1-May-08	2010-506324			Japan	CMC
24-Jul-08	2010-518218			Japan	CMC
25-Jul-08	2010-519213			Japan	CMC
31-Jul-08	2010-519924			Japan	CMC
13-Aug-08	2010-521026			Japan	CMC
19-Aug-08	2010-522907			Japan	CMC
19-Sep-08	2010-525837			Japan	CMC
19-Sep-08	2010-525838			Japan	CMC
7-Nov-08	2010-533104			Japan	CMC
20-Nov-08	2010-535966			Japan	CMC
17-Dec-08	2010-539465			Japan	CMC
8-Jan-09	2010-542268			Japan	CMC
2-Mar-09	2010-549645			Japan	CMC
13-Mar-09	2011-500789			Japan	CMC
8-Apr-09	2011-503991			Japan	QED

Application Date	Application Number	Grant Date	Patent Number	Country	Owner as of the Closing Date
7-May-09	2011-510492			Japan	CMC
6-Jul-09	2011-517411			Japan	CMC
23-Jul-09	2011-521112			Japan	CMC
3-Sep-09	2011-527799			Japan	CMC
4-Dec-09	2011-539510			Japan	CMC
17-Dec-09	2011-542433			Japan	CMC
21-Dec-09	2011-542523			Japan	CMC
21-Dec-09	2011-542526			Japan	CMC
21-Dec-09	2011-542532			Japan	CMC
21-Dec-09	2011-542535			Japan	CMC
28-Jan-10	2011-548272			Japan	CMC
2-Mar-10	2011-553043			Japan	QED
30-Mar-10	PCT/US2010/029144			Japan	CMC
3-Jun-10	PCT/US2010/037158			Japan	CMC
18-Jun-10	PCT/US2010/039118			Japan	CMC
15-Jul-10	PCT/US2010/042073			Japan	CMC
13-Sep-95	PI95002712	30-Aug-01	MY-112735-A	Malaysia	CMC
26-Nov-97	PI20044311	31-Jan-07	MY-128249-A	Malaysia	CMC
26-Nov-97	PI97005715	28-Feb-06	MY-121663-A	Malaysia	CMC
26-Nov-97	PI97005716	30-Jun-04	MY-117318-A	Malaysia	CMC
8-Dec-97	PI97005901	31-Dec-07	MY-134702-A	Malaysia	CMC
25-Jun-99	PI99002649	31-Jul-04	MY-117693-A	Malaysia	CMC
25-Jun-99	PI99002651	31-Dec-03	MY-116324-A	Malaysia	CMC
7-Jul-00	PI20003110	31-Oct-06	MY-126717-A	Malaysia	CMC
11-Aug-00	PI20003660	30-Apr-07	MY-129591-A	Malaysia	CMC
11-Aug-00	PI20003665	30-Nov-09	MY-139997-A	Malaysia	CMC
14-Nov-00	PI20005343	30-Nov-05	MY-120865-A	Malaysia	CMC
2-Apr-01	PI20011563	30-Aug-05	MY-119974-A	Malaysia	CMC
15-Oct-01	PI20014780	30-Aug-04	MY-118116-A	Malaysia	CMC
23-Sep-02	PI20023525	29-Sep-06	MY-126250-A	Malaysia	CMC
15-Jun-04	PI20042300	31-Dec-07	MY-134466-A	Malaysia	CMC
15-Jun-04	PI20042301	31-Oct-07	MY-132430-A	Malaysia	CMC
15-Jun-04	PI20042302	31-Jul-07	MY-131030-A	Malaysia	CMC
6-Jan-05	PI20050037	15-Sep-10	MY-142089-A	Malaysia	CMC
21-Mar-05	PI20051219	28-Nov-08	MY-136726-A	Malaysia	CMC
21-Mar-05	PI20051221	30-Sep-09	MY-139413-A	Malaysia	CMC

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
21-Mar-05	PI20085335			Malaysia	CMC
22-Mar-05	PI20051241			Malaysia	CMC
23-Mar-05	PI20051262	27-Feb-09	MY-137517-A	Malaysia	CMC
14-Jun-05	PI20052696	27-Feb-09	MY-137631-A	Malaysia	CMC
12-Jul-05	PI20053185			Malaysia	CMC
26-Jul-05	PI20053434			Malaysia	CMC
30-Aug-05	PI20054080			Malaysia	CMC
10-Oct-05	PI20054754			Malaysia	CMC
25-Oct-05	PI20055026			Malaysia	CMC
26-Oct-05	PI20055046			Malaysia	CMC
2-Nov-05	PI20055187			Malaysia	CMC
2-Nov-05	PI20116005			Malaysia	CMC
24-Apr-06	PI20061875	31-May-11	MY-143522-A	Malaysia	CMC
12-Jun-06	PI20062746			Malaysia	CMC
28-Jun-06	PI20063084			Malaysia	CMC
15-Aug-06	PI20063944			Malaysia	CMC
21-Sep-06	PI20080903			Malaysia	CMC
12-Oct-06	PI20081240			Malaysia	CMC
31-Jan-07	PI20082866			Malaysia	CMC
14-Feb-07	PI20083062			Malaysia	CMC
6-Mar-07	PI20083545			Malaysia	CMC
6-Mar-07	PI20083667			Malaysia	CMC
6-Mar-07	PI20083710			Malaysia	CMC
16-Mar-07	PI20083709			Malaysia	CMC
18-Apr-07	PI20084283			Malaysia	CMC
18-Apr-07	PI20115441			Malaysia	CMC
7-Jun-07	PI20084974			Malaysia	CMC
13-Jun-07	PI20085322			Malaysia	CMC
14-Jun-07	PI20085321			Malaysia	CMC
6-Jul-07	PI20090113			Malaysia	CMC
10-Jul-07	PI20090242			Malaysia	CMC
12-Jul-07	PI20090320			Malaysia	CMC
4-Sep-07	PI20090855			Malaysia	CMC
4-Sep-07	PI20114088			Malaysia	CMC
7-Sep-07	PI20090940			Malaysia	CMC
1-Nov-07	PI20091789			Malaysia	CMC

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
7-Nov-07	PI20091862	15-Jul-11	MY-143823-A	Malaysia	CMC
31-Jan-08	PI20093160			Malaysia	CMC
24-Jul-08	PI20100231			Malaysia	CMC
25-Jul-08	PI20100472			Malaysia	CMC
13-Aug-08	PI20100193			Malaysia	CMC
19-Sep-08	PI20101235			Malaysia	CMC
19-Sep-08	PI20101236			Malaysia	CMC
8-Jan-09	PI20103154			Malaysia	CMC
2-Mar-09	PI20104033			Malaysia	CMC
13-Mar-09	PI20103805			Malaysia	CMC
7-May-09	PI20105522			Malaysia	CMC
6-Jul-09	PI20110031			Malaysia	CMC
23-Jul-09	PI20110348			Malaysia	CMC
3-Sep-09	PI20111194			Malaysia	CMC
4-Dec-09	PI20112519			Malaysia	CMC
17-Dec-09	PI20112875			Malaysia	CMC
21-Dec-09	PI20112873			Malaysia	CMC
21-Dec-09	PI20112877			Malaysia	CMC
21-Dec-09	PI20112878			Malaysia	CMC
21-Dec-09	PI20112879			Malaysia	CMC
28-Jan-10	PI20113604			Malaysia	CMC
3-Jun-10	PCT/US2010/037158			Malaysia	CMC
18-Jun-10	PCT/US2010/039118			Malaysia	CMC
3-Jun-94	94919329.6	10-Apr-02	0 703 847	Netherlands	QED
28-Jul-98	98305999.9	9-Feb-05	0 896 042	Netherlands	CMC
18-Mar-99	99912683.2	30-Aug-06	1 064 338	Netherlands	CMC
24-Mar-99	99915008.9	5-Jul-06	1 087 860	Netherlands	QED
25-Jun-99	99930777	23-Nov-05	1 098 948	Netherlands	CMC
5-Jul-00	00943380.6	30-Aug-06	1 200 532	Netherlands	CMC
26-Jul-00	00950734.4	20-Aug-08	1 218 464	Netherlands	CMC
10-Aug-00	00953960.2	18-Apr-07	1 226 220	Netherlands	CMC
15-Dec-00	00986423.2	26-Oct-05	1 242 557	Netherlands	CMC
3-Apr-01	01924609.9	3-Aug-05	1 272 579	Netherlands	CMC
14-Jun-01	01948384.1	29-Aug-07	1 299 490	Netherlands	CMC
14-Jun-01	01950299.6	8-Nov-06	1 299 489	Netherlands	CMC
20-Dec-01	01992273.1	12-Oct-11	1 349 701	Netherlands	QED

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
31-Jan-02	02707621.5	7-May-10	1 365 889	Netherlands	QED
22-May-02	02737128.5	27-Jul-11	1 389 152	Netherlands	QED
12-Dec-02	02027674.7	29-Mar-06	1 324 006	Netherlands	QED
10-Feb-03	03739720.5	26-Dec-07	1 483 349	Netherlands	CMC
25-Jun-03	03765233.6	14-Feb-07	1 556 455	Netherlands	CMC
29-Sep-03	03807926.5	6-Jun-07	1 560 890	Netherlands	CMC
6-Oct-03	03809403.3	4-Jul-07	1 567 306	Netherlands	CMC
3-Jun-04	04776265.3	10-Dec-08	1 651 388	Netherlands	CMC
14-Sep-04	04784079.8	21-Apr-10	1 667 816	Netherlands	CMC
5-Jan-05	05705006.4	30-Sep-09	1 702 015	Netherlands	CMC
10-Jun-05	05760404.3	7-Nov-07	1 773 959	Netherlands	CMC
21-Oct-05	05817425.1	21-Jan-09	1 829 093	Netherlands	CMC
13-Sep-10	PCT/US2010/048587			PCT	CMC
6-Apr-11	PCT/US2011/031354			PCT	CMC
17-Aug-11	PCT/US2011/048044			PCT	CMC
30-Aug-11	PCT/US2011/049629			PCT	CMC
18-Nov-11	PCT/US2011/061312			PCT	CMC
16-Dec-11	PCT/US2011/065366			PCT	CMC
20-Dec-11	PCT/US2011/065965			PCT	QED
10-Jan-12	PCT/US2012/020737			PCT	CMC
17-Jan-12	PCT/US2012/021495			PCT	CMC
3-Jun-94	10-1995-705488	19-Apr-02	10-0335219	S.Korea	QED
6-Oct-95	10-1995-34358	11-Nov-02	10-0362141	S.Korea	CMC
5-Dec-97	10-1999-7005133	27-Feb-07	10-0690470	S.Korea	CMC
3-Jul-98	10-1998-0026742	1-Jun-01	10-0298519	S.Korea	CMC
28-Jul-98	10-1998-0030356	21-Jul-06	10-0606315	S.Korea	CMC
15-Dec-98	10-1998-0055067	18-Sep-01	10-0310570	S.Korea	CMC
18-Mar-99	10-2000-7010286	21-Jun-06	10-0594561	S.Korea	CMC
25-Jun-99	10-2000-7014741	13-May-05	10-0491060	S.Korea	CMC
25-Jun-99	10-2000-7014742	13-May-05	10-0491061	S.Korea	CMC
18-Oct-99	10-1999-0045050	23-Aug-02	10-0351655	S.Korea	CMC
5-Jul-00	10-2002-7000127	9-Jun-06	10-0590665	S.Korea	CMC
10-Aug-00	10-2002-7001010	9-Jun-06	10-0590664	S.Korea	CMC
10-Aug-00	10-2002-7001011	9-Jun-06	10-0590666	S.Korea	CMC
15-Nov-00	10-2002-7006172	19-Jun-07	10-0732078	S.Korea	CMC
15-Nov-00	10-2002-7006173	19-Jun-07	10-0732079	S.Korea	CMC

Application Date	Application Number	Grant Date	Patent Number	Country	Owner as of the Closing Date
15-Dec-00	10-2002-7007597	15-Mar-06	10-0563166	S. Korea	CMC
3-Apr-01	10-2002-7013183	28-Jun-07	10-0735787	S. Korea	CMC
13-Jan-03	10-2004-7011083	10-Mar-10	10-0948225	S. Korea	CMC
10-Feb-03	10-2004-7012349	21-Jul-10	10-0972730	S. Korea	CMC
5-Mar-03	10-2004-7013773	18-Aug-10	10-0977940	S. Korea	CMC
21-May-03	10-2004-7018820	21-Dec-07	10-0790217	S. Korea	CMC
26-May-03	10-2004-7019821	11-Jun-07	10-0729331	S. Korea	CMC
25-Jun-03	10-2005-7000935	7-Oct-10	10-0987895	S. Korea	CMC
26-Aug-03	10-2003-0059250	10-Oct-06	10-0634857	S. Korea	CMC
29-Sep-03	10-2005-7006220			S. Korea	CMC
29-Sep-03	10-2010-7029880			S. Korea	CMC
6-Oct-03	10-2005-7007277	7-Sep-11	10-1065117	S. Korea	CMC
2-Feb-04	10-2005-7014199			S. Korea	CMC
2-Feb-04	10-2011-7028628			S. Korea	CMC
4-Feb-04	10-2005-7014686	7-Oct-11	10-1073800	S. Korea	CMC
19-Feb-04	10-2005-7015903	3-Nov-11	10-1082268	S. Korea	CMC
19-Apr-04	10-2005-7020038			S. Korea	CMC
3-Jun-04	10-2005-7024127			S. Korea	CMC
3-Jun-04	10-2005-7024154			S. Korea	CMC
3-Jun-04	10-2005-7024180	13-Aug-09	10-0913282	S. Korea	CMC
3-Jun-04	10-2005-7025218			S. Korea	CMC
10-Sep-04	10-2006-7004950	13-Jul-07	10-0741630	S. Korea	CMC
14-Sep-04	10-2006-7005345	5-Jan-10	10-0936594	S. Korea	CMC
18-Nov-04	10-2006-7012513			S. Korea	QED
5-Jan-05	10-2006-7013620	3-Jan-12	10-1104575	S. Korea	CMC
5-Jan-05	10-2006-7013684	11-Jul-11	10-1049981	S. Korea	CMC
14-Mar-05	10-2006-7019552			S. Korea	CMC
14-Mar-05	10-2006-7019555	4-Oct-10	10-0986935	S. Korea	CMC
14-Mar-05	10-2006-7019556			S. Korea	CMC
14-Mar-05	10-2006-7019562	3-Nov-11	10-1082154	S. Korea	CMC
23-May-05	10-2006-7027241			S. Korea	CMC
10-Jun-05	10-2007-7000945	26-Jul-10	10-0973397	S. Korea	CMC
10-Jun-05	10-2007-7001162			S. Korea	CMC
1-Jul-05	10-2007-7004725			S. Korea	CMC
31-Aug-05	10-2007-7007136			S. Korea	CMC
11-Oct-05	10-2007-7010501			S. Korea	CMC

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
21-Oct-05	10-2007-7011828	6-Dec-11	10-1093363	S.Korea	CMC
21-Oct-05	10-2007-7011829			S.Korea	CMC
21-Oct-05	10-2007-7012608			S.Korea	CMC
31-Mar-06	10-2007-7026848	1-Dec-11	10-1091501	S.Korea	CMC
5-Apr-06	10-2007-7020800			S.Korea	QED
19-Apr-06	10-2007-7027305			S.Korea	CMC
24-May-06	10-2007-7029836			S.Korea	CMC
6-Jun-06	10-2008-7000814			S.Korea	CMC
22-Jun-06	10-2007-7030643			S.Korea	CMC
22-Jun-06	10-2011-7020418			S.Korea	CMC
8-Aug-06	10-2008-7006531			S.Korea	CMC
9-Aug-06	10-2008-7006318			S.Korea	CMC
15-Sep-06	10-2008-7010173			S.Korea	CMC
19-Sep-06	10-2008-7009983			S.Korea	CMC
21-Sep-06	10-2008-7010337			S.Korea	CMC
29-Sep-06	10-2008-7008090			S.Korea	CMC
12-Oct-06	10-2008-7009890			S.Korea	CMC
24-Oct-06	10-2008-7013051			S.Korea	CMC
8-Nov-06	10-2008-7013557			S.Korea	CMC
31-Jan-07	10-2008-7021237			S.Korea	CMC
14-Feb-07	10-2008-7022358			S.Korea	CMC
6-Mar-07	10-2008-7024838			S.Korea	CMC
6-Mar-07	10-2008-7025360			S.Korea	CMC
6-Mar-07	10-2008-7025805			S.Korea	CMC
16-Mar-07	10-2008-7025806			S.Korea	CMC
18-Apr-07	10-2008-7028901			S.Korea	CMC
30-Apr-07	10-2008-7029338			S.Korea	CMC
22-May-07	10-2008-7031910			S.Korea	CMC
7-Jun-07	10-2009-7000151			S.Korea	CMC
13-Jun-07	10-2008-7031578			S.Korea	CMC
14-Jun-07	10-2008-7031580			S.Korea	CMC
6-Jul-07	10-2009-7000437			S.Korea	CMC
10-Jul-07	10-2009-7001140			S.Korea	CMC
12-Jul-07	10-2009-7001539			S.Korea	CMC
29-Aug-07	10-2009-7003970			S.Korea	CMC
4-Sep-07	10-2009-7006892			S.Korea	CMC

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
7-Sep-07	10-2009-7007113			S.Korea	CMC
16-Oct-07	10-2009-7009938			S.Korea	CMC
1-Nov-07	10-2009-7011268			S.Korea	CMC
7-Nov-07	10-2009-7009510			S.Korea	CMC
13-Nov-07	10-2009-7011987	15-Jun-11	10-1043451	S.Korea	CMC
4-Dec-07	10-2009-7013921			S.Korea	CMC
31-Jan-08	10-2009-7016126			S.Korea	CMC
6-Feb-08	10-2009-7018739			S.Korea	CMC
22-Feb-08	10-2009-7017749			S.Korea	CMC
1-May-08	10-2009-7025224			S.Korea	CMC
24-Jul-08	10-2010-7004124			S.Korea	CMC
25-Jul-08	10-2010-7004346			S.Korea	CMC
31-Jul-08	10-2010-7004345			S.Korea	CMC
13-Aug-08	10-2010-7005681			S.Korea	CMC
19-Aug-08	10-2010-7006627			S.Korea	CMC
19-Sep-08	10-2010-7008621			S.Korea	CMC
19-Sep-08	10-2010-7008622			S.Korea	CMC
7-Nov-08	10-2010-7012588			S.Korea	CMC
20-Nov-08	10-2010-7014104			S.Korea	CMC
17-Dec-08	10-2010-7015810			S.Korea	CMC
2-Mar-09	10-2010-7022120			S.Korea	CMC
13-Mar-09	10-2010-7023419			S.Korea	CMC
8-Apr-09	10-2010-7024368			S.Korea	QED
7-May-09	10-2010-7028872			S.Korea	CMC
6-Jul-09	10-2011-7003011			S.Korea	CMC
23-Jul-09	10-2011-7004512			S.Korea	CMC
3-Sep-09	10-2011-7008786			S.Korea	CMC
4-Dec-09	10-2011-7015241			S.Korea	CMC
17-Dec-09	10-2011-7016676			S.Korea	CMC
21-Dec-09	10-2011-7016861			S.Korea	CMC
21-Dec-09	10-2011-7016863			S.Korea	CMC
21-Dec-09	10-2011-7016868			S.Korea	CMC
21-Dec-09	10-2011-7016869			S.Korea	CMC
2-Mar-10	10-2011-7018728			S.Korea	QED
18-Jun-10	10-2012-7001659			S.Korea	CMC
15-Jul-10	PCT/US2010/042073			S.Korea	CMC



<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
1-Sep-95	9701570-5	30-Mar-99	39382	Singapore	CMC
21-Nov-97	9902399-6	30-Jan-02	65839	Singapore	CMC
5-Dec-97	9902680-9	24-Jul-01	66016	Singapore	CMC
27-Jul-98	200000351-7	30-Apr-04	70520	Singapore	CMC
18-Mar-99	200005163-1	4-Oct-02	75717	Singapore	CMC
25-Jun-99	200007357-7	5-Aug-02	78103	Singapore	CMC
25-Jun-99	200007406-2	23-Oct-02	78138	Singapore	CMC
22-Sep-99	9904765-6	31-May-04	99289	Singapore	CMC
5-Jul-00	200107668-6	30-Jun-04	85531	Singapore	CMC
10-Aug-00	200107906-0	31-Mar-04	85872	Singapore	CMC
10-Aug-00	200200621-1	27-Feb-04	86667	Singapore	CMC
26-May-03	200407180-9	31-Jan-07	108491	Singapore	CMC
25-Jun-03	200500393-4	31-Jan-07	109794	Singapore	CMC
29-Sep-03	200502136-5	30-May-07	111616	Singapore	CMC
6-Oct-03	200502421-1	30-May-07	111736	Singapore	CMC
2-Feb-04	200504588-5	30-Nov-07	113378	Singapore	CMC
4-Feb-04	200505027-3	31-Jan-08	114165	Singapore	CMC
19-Feb-04	200505010-9	28-Sep-07	115943	Singapore	CMC
19-Apr-04	200506851-5	31-Jan-08	116363	Singapore	CMC
3-Jun-04	200508030-4	28-Nov-08	118337	Singapore	CMC
3-Jun-04	200508031-2	31-Dec-07	118338	Singapore	CMC
3-Jun-04	200508109-6	30-Jan-09	117954	Singapore	CMC
3-Jun-04	200508110-4	31-Dec-07	118357	Singapore	CMC
3-Jun-04	200705357-2	31-Mar-09	149719	Singapore	CMC
10-Sep-04	200601553-1	30-Sep-08	120429	Singapore	CMC
14-Sep-04	200601816-2	28-Sep-07	120613	Singapore	CMC
5-Jan-05	200604146-1	30-Jan-09	123321	Singapore	CMC
5-Jan-05	200604329-3	30-Jan-09	123442	Singapore	CMC
14-Mar-05	200606090-9	30-Jun-09	125416	Singapore	CMC
14-Mar-05	200606092-5	31-Oct-07	125418	Singapore	CMC
14-Mar-05	200606170-9	30-Nov-07	125468	Singapore	CMC
14-Mar-05	200900786-5			Singapore	CMC
23-May-05	200608094-9	30-Jun-10	127516	Singapore	CMC
23-May-05	200806780-3	31-Aug-11	160239	Singapore	CMC
10-Jun-05	200608575-7	29-Feb-08	128110	Singapore	CMC
10-Jun-05	200608577-3	30-Sep-09	128112	Singapore	CMC

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
1-Jul-05	200700622-4	30-Jun-09	129549	Singapore	CMC
31-Aug-05	200701358-4	31-Mar-10	132694	Singapore	CMC
11-Oct-05	200702586-9	31-Jul-09	131449	Singapore	CMC
21-Oct-05	200703085-1	31-Aug-09	132070	Singapore	CMC
21-Oct-05	200703249-3	30-Nov-09	132162	Singapore	CMC
21-Oct-05	200906990-7			Singapore	CMC
21-Oct-05	200907175-4			Singapore	CMC
31-Mar-06	200716411-4	13-May-11	136999	Singapore	CMC
19-Apr-06	200717064-0	31-May-10	136676	Singapore	CMC
24-May-06	200718876-6	15-Dec-10	138389	Singapore	CMC
6-Jun-06	201004136-6	30-Dec-11	163506	Singapore	CMC
22-Jun-06	201004697-7			Singapore	CMC
9-Aug-06	201005945-9			Singapore	CMC
15-Sep-06	201007069-6			Singapore	CMC
19-Sep-06	200802301-2	15-Mar-11	141059	Singapore	CMC
21-Sep-06	201007173-6			Singapore	CMC
29-Sep-06	200802476-2	30-Apr-09	141175	Singapore	CMC
12-Oct-06	200803074-4	28-Feb-11	141959	Singapore	CMC
24-Oct-06	200803408-4	28-Feb-11	142502	Singapore	CMC
8-Nov-06	200804139-4	28-Feb-11	142990	Singapore	CMC
8-Nov-06	201008959-7			Singapore	CMC
31-Jan-07	200805705-1	15-Apr-11	145063	Singapore	CMC
14-Feb-07	201101006-3			Singapore	CMC
6-Mar-07	200806989-0	29-Apr-11	146221	Singapore	CMC
6-Mar-07	201101794-4			Singapore	CMC
6-Mar-07	201101980-9			Singapore	CMC
6-Mar-07	201102048-4			Singapore	CMC
16-Mar-07	200807083-1	31-May-11	146286	Singapore	CMC
18-Apr-07	200807868-5	30-Jun-11	147153	Singapore	CMC
18-Apr-07	200807868-5DIV			Singapore	CMC
7-Jun-07	200808972-4DIV			Singapore	CMC
13-Jun-07	201104768-5			Singapore	CMC
14-Jun-07	201104771-9			Singapore	CMC
6-Jul-07	201105001-0			Singapore	CMC
10-Jul-07	200900347-6	30-Sep-11	P149441	Singapore	CMC
12-Jul-07	200900348-4DIV			Singapore	CMC

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
29-Aug-07	200901296-4	14-Oct-11	P150331	Singapore	CMC
29-Aug-07	201106245-2			Singapore	CMC
4-Sep-07	200901497-8	30-Nov-11	150715	Singapore	CMC
4-Sep-07	201106333-6			Singapore	CMC
7-Sep-07	201106418-5			Singapore	CMC
16-Oct-07	200902495-IDIV			Singapore	CMC
1-Nov-07	200902902-6DIV			Singapore	CMC
7-Nov-07	200902903-4	29-Jul-11	152343	Singapore	CMC
4-Dec-07	200903632-8DIV			Singapore	CMC
31-Jan-08	200904828-1	29-Jul-11	154138	Singapore	CMC
24-Jul-08	201000315-0			Singapore	CMC
25-Jul-08	201000605-4			Singapore	CMC
13-Aug-08	201000952-0			Singapore	CMC
19-Aug-08	201001198-9			Singapore	CMC
19-Sep-08	201001922-2			Singapore	CMC
19-Sep-08	201001923-0			Singapore	CMC
20-Nov-08	201003673-9			Singapore	CMC
17-Dec-08	201004211-7			Singapore	CMC
8-Jan-09	201004956-7			Singapore	CMC
2-Mar-09	201006239-6			Singapore	CMC
13-Mar-09	201006849-2			Singapore	CMC
7-May-09	201008442-4	15-Dec-11	166498	Singapore	CMC
6-Jul-09	201100095-7	30-Dec-11	168082	Singapore	CMC
23-Jul-09	201100659-0			Singapore	CMC
3-Sep-09	201101954-4			Singapore	CMC
4-Dec-09	201104009-4			Singapore	CMC
17-Dec-09	201104507-7			Singapore	CMC
21-Dec-09	201104514-3			Singapore	CMC
21-Dec-09	201104519-2			Singapore	CMC
21-Dec-09	201104521-8			Singapore	CMC
21-Dec-09	201104523-4			Singapore	CMC
28-Jan-10	201105554-8			Singapore	CMC
3-Jun-10	201108963-8			Singapore	CMC
18-Jun-10	PCT/US2010/039118			Singapore	CMC
15-Jul-10	PCT/US2010/042073			Singapore	CMC
25-Nov-97	97309476.6	13-Mar-02	0 844 290	Spain	CMC

Application Date	Application Number	Grant Date	Patent Number	Country	Owner as of the Closing Date <sup>1</sup>
31-Jan-02	02707621.5	7-May-10	1 365 889	Spain	QED
10-Jun-05	05760404.3	7-Nov-07	1 773 959	Spain	CMC
3-Jun-94	94919329.6	10-Apr-02	0 703 847	Sweden	QED
3-Oct-95	95306994.5	17-Jul-02	0 708 160	Sweden	CMC
22-May-02	02737128.5	27-Jul-11	1 389 152	Sweden	QED
25-Nov-97	97309476.6	13-Mar-02	0 844 290	Switzerland	CMC
5-Dec-97	97309806.4	7-Sep-05	0 846 742	Switzerland	CMC
28-Jul-98	98305999.9	9-Feb-05	0 896 042	Switzerland	CMC
24-Mar-99	99915008.9	5-Jul-06	1 087 860	Switzerland	QED
31-Jan-02	02707621.5	7-May-10	1 365 889	Switzerland	QED
12-Dec-02	02027674.7	29-Mar-06	1 324 006	Switzerland	QED
10-Jun-05	05760404.3	7-Nov-07	1 773 959	Switzerland	CMC
26-Nov-97	08611777.5	26-Oct-00	NI-116769	Taiwan	CMC
26-Nov-97	08611777.6	11-Oct-01	NI-134214	Taiwan	CMC
9-Dec-97	086118539	24-May-01	NI-126393	Taiwan	CMC
30-Dec-97	086120010	11-Mar-03	NI-165678	Taiwan	CMC
28-Jul-98	087112310	9-Jul-04	NI-198297	Taiwan	CMC
20-Nov-98	087119262	4-Nov-03	NI-181701	Taiwan	CMC
19-Dec-98	087121281	27-Sep-04	NI-202911	Taiwan	CMC
4-Jan-99	087117976	17-Jan-01	NI-119949	Taiwan	CMC
18-Mar-99	088104239	21-Jun-06	I256966	Taiwan	CMC
30-Jun-99	088110764	21-Dec-05	I245788	Taiwan	CMC
30-Jun-99	088110865	16-Aug-04	NI-200584	Taiwan	CMC
28-Oct-99	088118319	26-Mar-03	NI-166705	Taiwan	CMC
7-Jul-00	089113522	15-Oct-03	NI-179831	Taiwan	CMC
11-Aug-00	089116226	20-Dec-02	NI-162225	Taiwan	CMC
11-Aug-00	089116243	5-Aug-02	NI-153706	Taiwan	CMC
11-Aug-00	089116251	26-Apr-04	NI-193749	Taiwan	CMC
1-Dec-00	089124165	17-Dec-02	NI-162015	Taiwan	CMC
1-Dec-00	089124166	15-Jul-03	NI-174000	Taiwan	CMC
5-Dec-00	089123290	27-Jan-04	NI-186002	Taiwan	CMC
7-Dec-00	089126082	8-May-02	NI-148880	Taiwan	CMC
16-Dec-00	089126982	11-Oct-06	I263671	Taiwan	CMC
30-Mar-01	090107724	30-Jul-03	NI-175302	Taiwan	CMC
21-Jun-01	090115138	21-Apr-07	I279426	Taiwan	CMC
21-Jun-01	090115170	1-Sep-06	I261063	Taiwan	CMC

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
31-Dec-01	090133214	21-Oct-04	I222389	Taiwan	CMC
31-Dec-01	090133226	5-Apr-04	NI-192225	Taiwan	CMC
4-Sep-02	091120152	17-Feb-04	NI-189286	Taiwan	CMC
24-Oct-02	091124689	11-May-05	I232234	Taiwan	CMC
20-Nov-02	091133829	21-Mar-07	I276672	Taiwan	CMC
20-Nov-02	091133839	11-Dec-04	I224988	Taiwan	CMC
15-Jan-03	092100773	11-Apr-07	I278498	Taiwan	CMC
29-Jan-03	092101952	11-Oct-05	I241339	Taiwan	CMC
29-Jan-03	092101953	21-Jun-05	I234579	Taiwan	CMC
23-May-03	092113999	24-Sep-04	NI-202881	Taiwan	CMC
5-Jun-03	092115234	1-Aug-05	I236948	Taiwan	CMC
6-Jun-03	092115419	11-Feb-05	I227728	Taiwan	CMC
4-Jul-03	092118346	1-Oct-06	I262837	Taiwan	CMC
14-Jul-03	092119139	11-Jun-05	I233856	Taiwan	CMC
25-Aug-03	092123304	1-Mar-09	I306895	Taiwan	CMC
8-Sep-03	092124877	1-Nov-07	I289152	Taiwan	CMC
9-Oct-03	092128094	21-Jun-05	I234505	Taiwan	CMC
9-Oct-03	092128150	11-Aug-06	I259845	Taiwan	CMC
3-Feb-04	093102405	21-Jun-07	I283022	Taiwan	CMC
9-Feb-04	093102924	1-Dec-06	I267540	Taiwan	CMC
10-Feb-04	093103062	21-Mar-07	I276498	Taiwan	CMC
19-Feb-04	093104092	21-Oct-05	I241937	Taiwan	CMC
31-Mar-04	093108969	1-Oct-07	I287940	Taiwan	CMC
21-Apr-04	093111152	21-Dec-06	I268954	Taiwan	CMC
3-Jun-04	093115975	11-Mar-07	I275453	Taiwan	CMC
4-Jun-04	093116204	21-Apr-08	I295949	Taiwan	CMC
4-Jun-04	093116248	21-Sep-07	I286957	Taiwan	CMC
9-Jun-04	093116551	1-Dec-09	I317753	Taiwan	CMC
10-Sep-04	093127535	1-May-08	I296283	Taiwan	CMC
17-Sep-04	093128295	21-Mar-07	I276504	Taiwan	CMC
30-Sep-04	093129635	1-Oct-05	I241021	Taiwan	CMC
23-Dec-04	093140279	1-Mar-08	I293909	Taiwan	CMC
29-Dec-04	093141179	11-Dec-06	I268199	Taiwan	CMC
1-Mar-05	094103984	1-May-07	I280266	Taiwan	CMC
1-Mar-05	094103985	21-Mar-07	I276507	Taiwan	CMC
1-Mar-05	094103986	11-Mar-07	I275447	Taiwan	CMC

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
1-Mar-05	094105987	11-Aug-08	I299747	Taiwan	CMC
9-Mar-05	094107233	21-Aug-10	I329125	Taiwan	CMC
9-Jun-05	094118990	21-Apr-07	I279287	Taiwan	CMC
13-Jun-05	094119438	11-Mar-07	I275448	Taiwan	CMC
15-Jun-05	094119753	11-Feb-08	I293267	Taiwan	CMC
17-Jun-05	094120097	1-Aug-09	I313031	Taiwan	CMC
7-Jul-05	094123058	21-Oct-08	I302163	Taiwan	CMC
31-Aug-05	094129843	21-Apr-07	I279289	Taiwan	CMC
11-Oct-05	094135402	21-Apr-09	I308924	Taiwan	CMC
17-Oct-05	094136207	21-Jun-08	I298034	Taiwan	CMC
26-Oct-05	094137531	21-Aug-09	I313703	Taiwan	CMC
26-Oct-05	094137541			Taiwan	CMC
1-Nov-05	094138270	11-Apr-10	I323274	Taiwan	CMC
29-Mar-06	095110981	11-Oct-08	I301851	Taiwan	CMC
21-Apr-06	095114367	1-Jul-09	I311512	Taiwan	CMC
9-Jun-06	095120654	21-Apr-08	I295946	Taiwan	CMC
13-Jun-06	095121035	21-Nov-10	I333515	Taiwan	CMC
29-Jun-06	095123553	11-Sep-08	I300735	Taiwan	CMC
17-Aug-06	095130290	11-Jun-11	I343296	Taiwan	CMC
18-Aug-06	095130500	1-Apr-09	I308097	Taiwan	CMC
25-Sep-06	095135380	1-Apr-10	I322826	Taiwan	CMC
26-Sep-06	095135654			Taiwan	CMC
27-Sep-06	095135843	11-Oct-10	I331622	Taiwan	CMC
27-Sep-06	095135855	1-Aug-09	I312873	Taiwan	CMC
28-Sep-06	095136029	21-Oct-09	I316096	Taiwan	CMC
28-Sep-06	095136031	21-Oct-09	I316272	Taiwan	CMC
29-Sep-06	095136319	1-Jul-10	I326705	Taiwan	CMC
1-Nov-06	095140448	21-May-09	I309994	Taiwan	CMC
8-Nov-06	095141357	21-Jun-09	I311091	Taiwan	CMC
24-Nov-06	095143606	21-Aug-11	I347356	Taiwan	CMC
1-Feb-07	096103738			Taiwan	CMC
14-Feb-07	096105914	1-May-11	I341325	Taiwan	CMC
12-Mar-07	096108592			Taiwan	CMC
13-Mar-07	096108584			Taiwan	CMC
13-Mar-07	096108591			Taiwan	CMC
23-Mar-07	096110172	11-Jun-11	I343406	Taiwan	CMC

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
12-May-09	098115750			Taiwan	CMC
30-Jun-09	098122070			Taiwan	CMC
9-Jul-09	098123246			Taiwan	CMC
11-Sep-09	098130809			Taiwan	CMC
4-Dec-09	098141546			Taiwan	CMC
18-Dec-09	098143709			Taiwan	CMC
21-Dec-09	098143965			Taiwan	CMC
21-Dec-09	098143966			Taiwan	CMC
21-Dec-09	098143968			Taiwan	CMC
21-Dec-09	098143970			Taiwan	CMC
22-Jan-10	099101818			Taiwan	CMC
1-Apr-10	099110160			Taiwan	CMC
23-Apr-10	099112927			Taiwan	CMC
3-May-10	099114099			Taiwan	CMC
20-May-10	099116166			Taiwan	CMC
22-Jun-10	099120313			Taiwan	CMC
16-Jul-10	099123549			Taiwan	CMC
16-Sep-10	099131501			Taiwan	CMC
15-Apr-11	100113294			Taiwan	CMC
18-Aug-11	100129612			Taiwan	CMC
1-Sep-11	100131564			Taiwan	CMC
15-Dec-11	100146566			Taiwan	CMC
11-Jan-12	13/004,113TW			Taiwan	CMC
20-Jan-12	61/434,864TW			Taiwan	CMC
26-Sep-95	028127	1-Mar-00	9443	Thailand	CMC
26-Nov-97	040980	28-Jan-04	16115	Thailand	CMC
22-May-02	02737128.5	27-Jul-11	1 389 152	Turkey	QED
3-Jun-94	94919329.6	10-Apr-02	0 703 847	UK	QED
25-Nov-97	97309476.6	13-Mar-02	0 844 290	UK	CMC
5-Dec-97	97309806.4	7-Sep-05	0 846 742	UK	CMC
28-Jul-98	98305999.9	9-Feb-05	0 896 042	UK	CMC
18-Mar-99	99912683.2	30-Aug-06	1 064 338	UK	CMC
24-Mar-99	99915008.9	5-Jul-06	1 087 860	UK	QED
25-Jun-99	99930776.2	14-Aug-02	1 090 083	UK	CMC
31-Dec-99	99126243.7	29-Mar-06	1 018 398	UK	QED
5-Jul-00	00943380.6	30-Aug-06	1 200 532	UK	CMC

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
10-Aug-00	00953960.2	18-Apr-07	1 226 220	UK	CMC
15-Dec-00	00986423.2	26-Oct-05	1 242 557	UK	CMC
3-Apr-01	01924609.9	3-Aug-05	1 272 579	UK	CMC
14-Jun-01	01948384.1	29-Aug-07	1 299 490	UK	CMC
20-Dec-01	01992273.1	12-Oct-11	1 349 701	UK	QED
31-Jan-02	02707621.5	7-May-10	1 365 889	UK	QED
22-May-02	02737128.5	27-Jul-11	1 389 152	UK	QED
12-Dec-02	02027674.7	29-Mar-06	1 324 006	UK	QED
10-Feb-03	03739720.5	26-Dec-07	1 483 349	UK	CMC
26-May-03	03740859.8	26-Jul-06	1 534 795	UK	CMC
29-Sep-03	03807926.5	6-Jun-07	1 560 890	UK	CMC
6-Oct-03	03809403.3	4-Jul-07	1 567 306	UK	CMC
3-Jun-04	04753997.8	21-Jul-10	1 638 735	UK	CMC
3-Jun-04	04776265.3	10-Dec-08	1 651 388	UK	CMC
14-Sep-04	04784079.8	21-Apr-10	1 667 816	UK	CMC
14-Mar-05	05725517.6	4-Jan-12	1 730 246	UK	CMC
10-Jun-05	05760404.3	7-Nov-07	1 773 959	UK	CMC
21-Oct-05	05817425.1	21-Jan-09	1 829 093	UK	CMC
9-Aug-06	06813337.0	12-Oct-11	1 924 666	UK	CMC
7-Mar-89	071285435	4-Sep-90	4,954,142	US	CMC
6-Nov-92	07973,113	11-Oct-94	5,353,839	US	QED
4-Jun-93	08/071,813	12-Sep-95	5,449,313	US	QED
26-Oct-93	08/640,753	22-Sep-98	5,810,126	US	QED
8-Jul-94	08/272,345	26-Sep-95	5,452,745	US	QED
6-Oct-94	08/319,213	18-Jun-96	5,527,423	US	CMC
7-Jun-95	08/485,413	11-Jun-96	5,525,249	US	QED
8-Sep-95	08/525,453	26-Nov-96	5,577,948	US	QED
10-May-96	08/644,509	12-Jan-99	5,858,813	US	CMC
3-Jul-96	08/676,598	7-Jan-03	6,503,414	US	QED
24-Sep-96	08/718,937	21-Jul-98	5,783,489	US	CMC
26-Nov-96	08/753,482	28-Sep-99	5,958,288	US	CMC
9-Dec-96	08/763,705	21-Sep-99	5,954,997	US	CMC
30-Dec-96	08/774,488	2-Jun-98	5,759,917	US	CMC
18-Feb-97	08/800,562	7-Mar-00	6,033,596	US	CMC
8-Apr-97	08/827,918	9-Nov-99	5,980,775	US	CMC
18-Apr-97	08/844,195	18-Jan-00	6,015,506	US	CMC



Application Date	Application Number	Grant Date	Patent Number	Country	Owner as of the Closing Date
10-Jul-97	08/891,468	30-May-00	6,068,787	US	CMC
11-Jul-97	08/891,649	3-Oct-00	6,126,853	US	CMC
28-Jul-97	08/901,803	4-Jul-00	6,083,419	US	CMC
29-Sep-97	08/944,036	30-Oct-01	6,309,560	US	CMC
19-Dec-97	08/994,894	10-Feb-04	6,689,692	US	CMC
23-Dec-97	08/997,289	4-Sep-01	6,284,151	US	CMC
23-Dec-97	08/997,290	25-Sep-01	6,294,105	US	CMC
19-Feb-98	09/026,101	22-Aug-00	6,106,380	US	QED
18-Mar-98	09/040,630	13-Aug-02	6,432,828	US	CMC
5025-Mar-98	09/047,664	26-Oct-99	5,971,835	US	QED
17-Apr-98	09/062,327	16-May-00	6,062,968	US	CMC
26-May-98	09/084,630	23-Jan-01	6,177,026	US	CMC
29-May-98	09/086,659	24-Oct-00	6,136,711	US	CMC
26-Jun-98	09/105,060	18-Mar-03	6,533,832	US	CMC
26-Jun-98	09/105,065	17-Apr-01	6,217,416	US	CMC
26-Jun-98	09/105,555	16-May-00	6,063,306	US	CMC
6-Jan-99	09/226,326	14-Sep-99	5,951,369	US	QED
7-Jan-99	09/226,191	29-May-01	6,238,469	US	CMC
7-May-99	09/307,123	23-Apr-02	6,375,693	US	CMC
4-Aug-99	09/366,588	15-Jul-03	6,593,239	US	CMC
27-Sep-99	09/405,249	28-May-02	6,395,693	US	CMC
30-Sep-99	09/409,798	14-Oct-03	6,632,377	US	CMC
22-Oct-99	09/425,473	19-Feb-02	6,347,978	US	CMC
4-Nov-99	09/428,965	26-Feb-02	6,350,393	US	CMC
15-Nov-99	09/440,401	25-Sep-01	6,293,848	US	CMC
15-Nov-99	09/440,525	20-Nov-01	6,319,096	US	CMC
28-Dec-99	09/472,961	19-Feb-02	6,348,076	US	CMC
10-Feb-00	09/501,221	26-Mar-02	6,362,104	US	CMC
14-Feb-00	09/503,996	13-Nov-01	6,316,366	US	CMC
4-Apr-00	09/542,774	29-Oct-02	6,471,884	US	CMC
1-May-00	09/562,298	25-Jun-02	6,409,781	US	CMC
16-Jun-00	09/595,227	20-Dec-05	6,976,905	US	CMC
5-Jul-00	09/609,480	11-Nov-03	6,646,348	US	CMC
5-Jul-00	09/609,882	15-Jul-03	6,592,776	US	CMC
5-Jul-00	09/609,884	24-Jun-03	6,582,623	US	CMC
25-Jul-00	09/625,142	4-Mar-03	6,527,817	US	CMC

Application Date	Application Number	Grant Date	Patent Number	Country	Owner as of the Closing Date
10-Aug-00	09/636,246	15-Feb-05	6,855,266	US	CMC
7-Sep-00	09/656,665	22-Oct-02	6,468,137	US	CMC
13-Sep-00	09/660,847	26-Mar-02	6,362,106	US	CMC
17-Oct-00	09/690,585	8-Oct-02	6,461,227	US	CMC
22-Nov-00	09/718,658	13-May-03	6,561,874	US	QED
1-Dec-00	09/728,779	13-Nov-01	6,316,365	US	CMC
15-Dec-00	09/737,905	29-Mar-05	6,872,328	US	CMC
22-Jan-01	09/766,750	20-Aug-02	6,435,947	US	CMC
22-Jan-01	09/766,759	7-May-02	6,383,065	US	CMC
1-Feb-01	09/775,282	14-Jan-03	6,506,102	US	QED
16-Feb-01	09/788,082	23-Sep-03	6,623,331	US	CMC
6-Mar-01	09/800,009	10-Sep-02	6,447,371	US	CMC
22-May-01	09/862,245	18-Oct-05	6,955,589	US	QED
24-Sep-01	09/961,934	8-Jul-03	6,589,100	US	CMC
3-Oct-01	09/682,662	25-Mar-03	6,537,134	US	CMC
11-Oct-01	09/975,335	19-Oct-04	6,805,812	US	CMC
24-Oct-01	10/033,152	16-Mar-04	6,705,926	US	CMC
27-Nov-01	09/995,025	3-Feb-04	6,685,540	US	CMC
18-Dec-01	10/022,308	4-Mar-03	6,527,819	US	CMC
18-Dec-01	10/022,317	30-Aug-05	6,936,542	US	CMC
20-Dec-01	10/033,856	13-Apr-04	6,719,611	US	QED
11-Jan-02	10/044,174	2-Sep-03	6,612,911	US	CMC
18-Jan-02	10/051,241	28-Feb-06	7,004,819	US	CMC
22-Jan-02	10/054,059	4-Mar-03	6,527,622	US	CMC
11-Feb-02	10/073,844	17-Aug-04	6,776,810	US	CMC
27-Feb-02	10/083,985	11-Jan-05	6,840,843	US	CMC
5-Mar-02	10/092,406	27-Jan-04	6,682,575	US	CMC
15-Mar-02	10/099,492	27-May-03	6,569,350	US	CMC
4-Apr-02	10/117,554	8-Feb-05	6,853,474	US	CMC
10-Apr-02	10/119,862	11-Jan-05	6,841,479	US	CMC
10-May-02	10/142,681	16-Mar-10	7,677,956	US	CMC
14-May-02	10/145,357	16-Sep-03	6,620,037	US	CMC
23-May-02	10/154,231	1-Apr-03	6,541,434	US	CMC
6-Jun-02	10/164,916	8-Aug-06	7,087,187	US	CMC
6-Jun-02	10/165,133	4-Nov-03	6,641,630	US	CMC
7-Jun-02	10/165,100	13-Dec-05	6,974,777	US	CMC

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
3-Jul-02	10/190,360	2-Aug-05	6,925,150	US	CMC
11-Jul-02	10/193,589	26-Apr-05	6,884,729	US	CMC
19-Jul-02	10/198,841	4-Apr-06	7,021,993	US	CMC
19-Jul-02	10/199,704	2-Nov-04	6,811,474	US	CMC
6-Aug-02	10/213,631	8-Jun-04	6,746,310	US	QED
30-Aug-02	10/231,047	2-Nov-04	6,812,193	US	CMC
18-Sep-02	10/246,280	23-Nov-04	6,821,897	US	CMC
11-Oct-02	10/269,864	30-Aug-05	6,936,543	US	CMC
28-Oct-02	10/281,782	5-Jul-05	6,913,517	US	CMC
28-Oct-02	10/282,489	14-Oct-08	7,435,165	US	CMC
18-Nov-02	10/295,836	4-Nov-03	6,641,632	US	CMC
18-Nov-02	10/299,189	28-Aug-07	7,261,616	US	QED
20-Nov-02	10/300,196	22-Aug-06	7,093,722	US	CMC
25-Nov-02	10/303,236	18-Oct-05	6,956,657	US	QED
19-Dec-02	10/324,634	11-Jan-05	6,840,971	US	CMC
29-Jan-03	10/353,512	15-Mar-05	6,867,140	US	CMC
29-Jan-03	10/353,542	8-Feb-05	6,852,632	US	CMC
3-Feb-03	10/356,970	4-Jul-06	7,071,105	US	CMC
10-Feb-03	10/361,520	1-Nov-05	6,960,120	US	CMC
10-Feb-03	10/361,720	21-Dec-04	6,832,947	US	CMC
11-Feb-03	10/364,243	24-May-05	6,896,591	US	CMC
18-Feb-03	10/368,275	14-Dec-04	6,830,503	US	CMC
27-Feb-03	10/376,172	29-Aug-06	7,097,541	US	CMC
6-Mar-03	10/382,370	11-Oct-05	6,953,532	US	CMC
21-Apr-03	10/419,580	16-May-06	7,044,836	US	CMC
21-Apr-03	10/419,659	27-Jul-04	6,767,476	US	CMC
17-Jun-03	10/463,680	26-Apr-05	6,884,156	US	CMC
17-Jun-03	10/463,721	14-Feb-06	6,997,777	US	CMC
17-Jun-03	10/463,730	14-Feb-06	6,998,166	US	CMC
30-Jun-03	10/610,407	9-Jan-07	7,160,807	US	CMC
9-Jul-03	10/616,335	3-Jun-08	7,381,648	US	CMC
11-Sep-03	10/660,379	3-Feb-09	7,485,241	US	CMC
11-Sep-03	10/660,687	3-Jul-07	7,238,618	US	CMC
19-Sep-03	10/666,797	27-Mar-07	7,195,539	US	CMC
30-Sep-03	10/675,417	16-Aug-05	6,929,983	US	CMC
20-Oct-03	10/689,167	8-Jan-08	7,317,232	US	CMC

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
27-Oct-03	10/694,408	10-Jan-06	6,984,588	US	CMC
10-Nov-03	10/705,533	4-Sep-07	7,264,641	US	CMC
22-Dec-03	10/743,840	6-Feb-07	7,173,691	US	QED
7-Jan-04	10/753,138	30-Oct-07	7,288,021	US	CMC
8-Jan-04	10/753,269	10-Jan-06	6,984,587	US	CMC
9-Jan-04	10/754,390			US	CMC
9-Jan-04	10/755,154	14-Aug-07	7,255,810	US	CMC
23-Jan-04	10/763,552	8-Jan-08	7,317,278	US	CMC
2-Feb-04	10/543,848	28-Oct-08	7,442,645	US	CMC
3-Mar-04	10/792,183	24-May-05	6,896,593	US	CMC
3-Mar-04	10/792,344	31-May-05	6,899,598	US	CMC
3-Mar-04	10/792,348	30-Aug-05	6,935,931	US	CMC
16-Mar-04	10/801,316	21-Feb-06	7,001,253	US	CMC
23-Mar-04	10/807,064	27-Mar-07	7,195,544	US	CMC
23-Mar-04	10/807,079	13-Jun-06	7,059,936	US	CMC
25-Mar-04	10/808,827	17-Apr-07	7,204,742	US	CMC
14-May-04	10/845,804	17-May-05	6,893,322	US	QED
27-May-04	10/854,944	25-Sep-07	7,274,772	US	CMC
27-May-04	10/855,276	11-Dec-07	7,306,637	US	CMC
27-May-04	10/855,281	2-Oct-07	7,277,314	US	CMC
4-Jun-04	10/861,007	15-Aug-06	7,091,604	US	CMC
10-Jun-04	10/865,027	21-Oct-08	7,438,795	US	CMC
16-Jun-04	10/869,397	24-Jul-07	7,247,567	US	CMC
16-Jun-04	10/869,605	3-Apr-07	7,198,549	US	CMC
28-Jul-04	10/901,420	9-Jan-07	7,161,247	US	CMC
1-Sep-04	10/931,908	13-Dec-11	8,075,372	US	CMC
10-Sep-04	10/568,727	13-Jul-10	7,754,098	US	CMC
12-Oct-04	10/963,108	21-Jul-09	7,563,383	US	CMC
19-Oct-04	10/968,571	2-May-06	7,037,175	US	CMC
27-Oct-04	10/974,460	18-Oct-11	8,038,752	US	CMC
28-Oct-04	10/975,585	28-Apr-09	7,524,347	US	CMC
5-Nov-04	10/982,486	17-Mar-09	7,504,044	US	CMC
15-Dec-04	11/012,645	2-Jan-07	7,156,724	US	QED
10-Jan-05	11/033,068	8-Apr-08	7,354,530	US	CMC
2-Mar-05	11/070,695	30-Mar-10	7,686,994	US	CMC
18-Mar-05	11/084,287	25-Nov-08	7,456,482	US	CMC

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
22-Mar-05	11/088,075	3-Mar-09	7,497,938	US	CMC
30-Mar-05	11/093,806	25-Dec-07	7,311,856	US	CMC
25-Apr-05	11/113,498	14-Oct-08	7,435,161	US	CMC
6-Jun-05	11/145,807	23-Sep-08	7,427,567	US	CMC
13-Jun-05	11/150,944	16-Aug-11	7,998,335	US	CMC
22-Jun-05	11/158,694	11-Sep-07	7,267,607	US	CMC
30-Jun-05	11/173,518	22-Nov-11	8,062,096	US	CMC
17-Aug-05	11/205,428			US	CMC
26-Sep-05	11/235,765	8-Jan-08	7,316,603	US	CMC
30-Sep-05	11/241,137	7-Jun-11	7,955,519	US	CMC
30-Sep-05	11/241,214	4-Nov-08	7,447,298	US	CMC
26-Oct-05	11/259,645	4-Sep-07	7,265,055	US	CMC
2-Nov-05	11/265,607	25-Dec-07	7,311,862	US	CMC
6-Dec-05	11/294,853	12-May-09	7,531,105	US	CMC
13-Mar-06	11/374,238			US	CMC
20-Mar-06	11/384,538	8-Jun-10	7,732,393	US	CMC
23-Mar-06	11/387,558			US	CMC
23-Mar-06	11/388,085	26-Oct-10	7,820,067	US	CMC
5-Apr-06	11/398,193	7-Oct-08	7,433,057	US	QED
27-Apr-06	11/412,369	8-Sep-09	7,585,340	US	CMC
31-May-06	11/444,866	6-May-08	7,368,066	US	CMC
7-Jun-06	11/448,205			US	CMC
29-Jun-06	11/478,004			US	CMC
29-Jun-06	11/478,023	13-Nov-07	7,294,576	US	CMC
19-Jul-06	11/489,054	16-Aug-11	7,998,228	US	CMC
21-Jul-06	11/491,055	10-Mar-09	7,501,346	US	CMC
24-Jul-06	11/491,612			US	CMC
5-Sep-06	11/515,546	16-Mar-10	7,678,700	US	CMC
8-Sep-06	11/517,909			US	CMC
11-Sep-06	11/518,674	15-Nov-11	8,057,561	US	CMC
2-Nov-06	11/591,730			US	CMC
9-Nov-06	11/595,536	25-Nov-08	7,456,107	US	CMC
13-Nov-06	11/599,199	23-Nov-10	7,837,888	US	CMC
6-Dec-06	11/634,576			US	CMC
5-Jan-07	11/620,517	29-Apr-08	7,365,013	US	CMC
29-Jan-07	11/699,129	1-Mar-11	7,897,061	US	CMC

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
1-Feb-07	11/670,137	1-Sep-09	7,582,127	US	CMC
9-Feb-07	11/673,399	28-Sep-10	7,803,203	US	CMC
9-Feb-07	11/673,518	17-Aug-10	7,776,230	US	CMC
14-Feb-07	11/706,929			US	CMC
2-Mar-07	11/681,258	7-Jul-09	7,557,566	US	CMC
9-Mar-07	12/224,902			US	CMC
26-Mar-07	11/690,944	20-Apr-10	7,699,684	US	CMC
30-Apr-07	12/226,394			US	CMC
4-May-07	11/800,188			US	CMC
6-Jul-07	12/309,212			US	CMC
18-Jul-07	11/779,752	2-Jun-09	7,542,549	US	CMC
1-Aug-07	11/888,406	30-Aug-11	8,008,202	US	CMC
27-Aug-07	11/892,720			US	CMC
28-Aug-07	11/895,896			US	CMC
18-Sep-07	11/856,790	28-Sep-10	7,803,711	US	CMC
16-Oct-07	12/311,717			US	CMC
9-Nov-07	11/937,804			US	CMC
13-Nov-07	12/312,477			US	CMC
27-Nov-07	11/986,921	7-Jun-11	7,955,520	US	CMC
12-Dec-07	12/001,631	25-Jan-11	7,875,469	US	CMC
19-Dec-07	11/960,135			US	CMC
8-Jan-08	11/970,978	12-Apr-11	7,922,926	US	CMC
25-Jan-08	12/011,435			US	CMC
11-Feb-08	12/069,495			US	CMC
27-Feb-08	12/449,655	15-Feb-11	7,888,929	US	QED
5-Mar-08	12/043,010	16-Aug-11	7,998,866	US	CMC
21-Mar-08	12/052,970			US	CMC
23-May-08	12/126,739	13-Sep-11	8,017,524	US	CMC
10-Jul-08	12/170,954			US	CMC
24-Jul-08	12/670,495			US	CMC
30-Jul-08	12/221,023			US	CMC
13-Aug-08	12/673,057			US	CMC
3-Sep-08	12/676,418			US	CMC
19-Sep-08	12/234,173	9-Aug-11	7,994,057	US	CMC
19-Sep-08	12/234,237			US	CMC
26-Sep-08	12/239,249			US	CMC

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
19-Dec-08	12/317,254			US	CMC
2-Feb-09	12/364,253	7-Dec-10	7,846,842	US	CMC
3-Feb-09	12/364,937			US	CMC
26-Feb-09	12/393,489	24-Jan-12	8,101,093	US	CMC
1-Apr-09	12/384,161			US	CMC
2-Apr-09	12/384,266			US	CMC
8-Apr-09	12/384,723			US	QED
4-May-09	12/387,506			US	CMC
29-May-09	29/337,774	21-Jun-11	D640057	US	CMC
1-Jun-09	12/476,073			US	CMC
4-Jun-09	12/455,631			US	CMC
29-Jul-09	12/462,067			US	CMC
3-Sep-09	12/584,343			US	CMC
16-Sep-09	12/462,638			US	CMC
3-Dec-09	12/630,288			US	CMC
7-Dec-09	12/631,977			US	CMC
21-Dec-09	13/133,784			US	CMC
21-Dec-09	13/133,857			US	CMC
21-Dec-09	13/139,017			US	CMC
21-Dec-09	13/139,046			US	CMC
2-Mar-10	13/254,640			US	QED
30-Mar-10	13/258,112			US	CMC
15-Apr-10	12/761,016			US	CMC
16-Apr-10	12/762,180			US	CMC
21-Apr-10	12/764,268			US	CMC
18-Jun-10	13/379,911			US	CMC
16-Jul-10	12/837,705			US	CMC
19-Jul-10	12/838,813			US	CMC
11-Aug-10	12/854,470			US	CMC
2-Sep-10	12/807,324			US	CMC
23-Nov-10	12/952,242			US	CMC
17-Dec-10	12/971,714			US	CMC
23-Dec-10	12/977,180			US	QED
11-Jan-11	13/004,113			US	CMC
17-Jan-11	13/351,339			US	CMC
13-Apr-11	13/085,688			US	QED

<u>Application Date</u>	<u>Application Number</u>	<u>Grant Date</u>	<u>Patent Number</u>	<u>Country</u>	<u>Owner as of the Closing Date</u>
15-Apr-11	13/087,857			US	CMC
23-Jun-11	13/167,467			US	CMC
16-Aug-11	13/210,875			US	CMC
20-Sep-11	13/237,881			US	CMC