

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5240791

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST
CONVEYING PARTY DATA	
Name	Execution Date
BANK OF AMERICA, N.A.	11/15/2018
RECEIVING PARTY DATA	
Name:	CABOT MICROELECTRONICS CORPORATION
Street Address:	870 NORTH COMMON DRIVE
City:	AURORA
State/Country:	ILLINOIS
Postal Code:	60504
Name:	QED TECHNOLOGIES INTERNATIONAL, INC.
Street Address:	870 NORTH COMMON DRIVE
City:	AURORA
State/Country:	ILLINOIS
Postal Code:	60504
PROPERTY NUMBERS Total: 13	
Property Type	Number
Application Number:	13444620
Application Number:	13477535
Application Number:	13478292
Application Number:	13546128
Application Number:	13546552
Application Number:	13551423
Application Number:	13554829
Application Number:	13593634
Application Number:	13594947
Application Number:	13606599
Application Number:	61610818
Application Number:	61610843
Application Number:	61658076
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: 800-713-0755

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
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SIGNATURE:	/Elaine Carrera/
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DATE SIGNED:	11/16/2018
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Total Attachments: 14

source=Active_109670548_1_Cabot - Patent Release - Reel 031868 Frame 0561#page1.tif
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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

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

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

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: 10

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

- ☐ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number _____

Authorized User Name _____

9. Signature:

Elaine Carrera
Signature

November 15, 2018

Date

Elaine Carrera
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

14

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

Addendum to Cover Page of Patents Form Cover Sheet

2. Name and address of receiving party(ies)

QED Technologies International, Inc.
870 North Common Drive
Aurora, Illinois 60504

NOTICE OF RELEASE OF SECURITY INTEREST IN PATENTS

Dated as of November 15, 2018

United States Patent and Trademark Office

Ladies and Gentlemen:

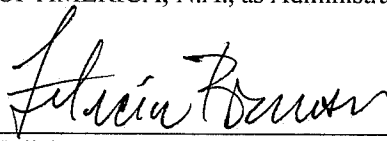
The lien and security interest evidenced by that certain Intellectual Property Security Agreement Supplement, by and among **CABOT MICROELECTRONICS CORPORATION**, a Delaware corporation (the "Borrower"), **QED TECHNOLOGIES INTERNATIONAL, INC.**, a Delaware corporation, each having its chief executive 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 December 23, 2013, at Reel/Frame 031868/0561 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 of the Borrower 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: 047521 FRAME: 0734

Exhibit A

See attached.



UNITED STATES PATENT AND TRADEMARK OFFICE

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

JANUARY 3, 2014

PTAS

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

502612675

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: 12/23/2013

REEL/FRAME: 031868/0561
NUMBER OF PAGES: 12

BRIEF: INTELLECTUAL PROPERTY SECURITY AGREEMENT SUPPLEMENT

DOCKET NUMBER: 5031749-0160

ASSIGNOR:

CABOT MICROELECTRONICS CORPORATION DOC DATE: 11/20/2012

ASSIGNEE:

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

APPLICATION NUMBER: 13444620

FILING DATE: 04/11/2012

PATENT NUMBER:

ISSUE DATE:

TITLE: POLISHING PAD WITH LIGHT-STABLE LIGHT-TRANSMITTING REGION

APPLICATION NUMBER: 13477535

FILING DATE: 05/22/2012

PATENT NUMBER:

ISSUE DATE:

TITLE: CMP COMPOSITION CONTAINING ZIRCONIA PARTICLES AND METHOD OF USE

APPLICATION NUMBER: 13478292

FILING DATE: 05/23/2012

PATENT NUMBER:

ISSUE DATE:

TITLE: POLISHING COMPOSITION FOR NICKEL-PHOSPHOROUS-COATED MEMORY DISKS

APPLICATION NUMBER: 13546128 FILING DATE: 07/11/2012
PATENT NUMBER: 8557137 ISSUE DATE: 10/15/2013
TITLE: POLISHING COMPOSITION FOR NICKEL PHOSPHOROUS MEMORY DISKS

APPLICATION NUMBER: 13546552 FILING DATE: 07/11/2012
PATENT NUMBER: ISSUE DATE:
TITLE: COMPOSITIONS AND METHODS FOR SELECTIVE POLISHING OF SILICON
NITRIDE MATERIALS

APPLICATION NUMBER: 13551423 FILING DATE: 07/17/2012
PATENT NUMBER: ISSUE DATE:
TITLE: GST CMP SLURRIES

APPLICATION NUMBER: 13554829 FILING DATE: 07/20/2012
PATENT NUMBER: 8597540 ISSUE DATE: 12/03/2013
TITLE: COMPOSITIONS FOR POLISHING SILICON-CONTAINING SUBSTRATES

APPLICATION NUMBER: 13593634 FILING DATE: 08/24/2012
PATENT NUMBER: ISSUE DATE:
TITLE: COMPOSITIONS AND METHODS FOR SELECTIVE POLISHING OF PLATINUM AND
RUTHENIUM MATERIALS

APPLICATION NUMBER: 13594947 FILING DATE: 08/27/2012
PATENT NUMBER: 8518135 ISSUE DATE: 08/27/2013
TITLE: POLISHING COMPOSITION CONTAINING HYBRID ABRASIVE FOR
NICKEL-PHOSPHOROUS COATED MEMORY DISKS

APPLICATION NUMBER: 13606599 FILING DATE: 09/07/2012
PATENT NUMBER: ISSUE DATE:
TITLE: POLYPYRROLIDONE POLISHING COMPOSITION AND METHOD

APPLICATION NUMBER: 61610818 FILING DATE: 03/14/2012
PATENT NUMBER: ISSUE DATE:
TITLE: CMP COMPOSITIONS SELECTIVE FOR OXIDE AND NITRIDE WITH HIGH
REMOVAL RATE AND LOW DEFECTIVITY

APPLICATION NUMBER: 61610843 FILING DATE: 03/14/2012
PATENT NUMBER: ISSUE DATE:
TITLE: CMP COMPOSITIONS SELECTIVE FOR OXIDE AND NITRIDE WITH HIGH
REMOVAL RATE AND LOW DEFECTIVITY

APPLICATION NUMBER: 61658076 FILING DATE: 06/11/2012
PATENT NUMBER: ISSUE DATE:
TITLE: COMPOSITION AND METHOD FOR POLISHING MOLYBDENUM

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

INTELLECTUAL PROPERTY SECURITY AGREEMENT SUPPLEMENT

THIS INTELLECTUAL PROPERTY SECURITY AGREEMENT SUPPLEMENT (this "Intellectual Property Security Agreement Supplement"), dated as of November 20, 2012, is made by **EACH OF THE UNDERSIGNED** (each a "Grantor") in favor of **BANK OF AMERICA, N.A.**, in its capacity as administrative agent (the "Administrative Agent") for the Secured Parties (as defined in the Credit Agreement referenced below; all capitalized terms used but not defined herein shall have the meanings given to such terms in such Credit Agreement).

RECITALS:

A. Cabot Microelectronics Corporation, a Delaware corporation (the "Borrower"), certain of its Subsidiaries and the Administrative Agent, are party to an Intellectual Property Security Agreement dated as of February 13, 2012 (as in effect on the date hereof, the "Intellectual Property Security Agreement").

B. The Grantor is required under the terms of the Credit Agreement and the Intellectual Property Security Agreement to cause certain intellectual property owned by it and listed on Schedules I, II, III and IV to this Intellectual Property Security Agreement Supplement (the "Additional Collateral") to become subject to the Intellectual Property Security Agreement.

C. The Grantor will materially benefit directly and indirectly from the making and maintenance of the extensions of credit made from time to time under the Credit Agreement, Secured Cash Management Agreements and Secured Hedge Agreements.

In order to induce the Secured Parties to from time to time make and maintain extensions of credit under the Credit Agreement, Secured Cash Management Agreements and Secured Hedge Agreements, the Grantor hereby agrees as follows:

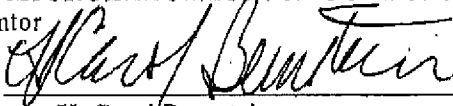
1. **Grant of Security.** The Grantor hereby affirms and acknowledges the grant of security interest in the Additional Collateral contained in the Intellectual Property Security Agreement and hereby grants to the Administrative Agent for the benefit of the Secured Parties a first priority lien and security interest in the Additional Collateral listed on Schedules I, II, III and IV and all proceeds thereof.

2. **Acknowledgment.** The Grantor hereby acknowledges, agrees and confirms that, by its execution of this Intellectual Property Security Agreement Supplement, the Additional Collateral constitute "Collateral" under and is subject to the Intellectual Property Security Agreement. Each of the representations and warranties with respect to Collateral contained in the Intellectual Property Security Agreement is hereby made by the Grantor with respect to the Additional Collateral. Revised Schedules I, II, III and IV to the Intellectual Property Security Agreement reflecting the Additional Collateral are being delivered herewith to the Administrative Agent.

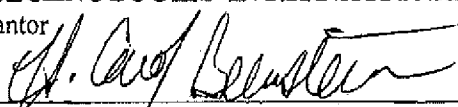
IN WITNESS WHEREOF, the Grantor has caused this Intellectual Property Security Agreement Supplement to be duly executed by its authorized officer as of the day and year first above written.

GRANTOR:

CABOT MICROELECTRONICS CORPORATION,
as a Grantor

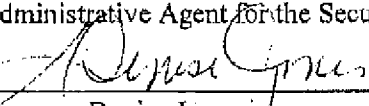
By: 
Name: H. Carol Bernstein
Title: Vice President, Secretary and General Counsel

QED TECHNOLOGIES INTERNATIONAL, INC.,
as a Grantor

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

Acknowledged and accepted:

BANK OF AMERICA, N.A.,
as Administrative Agent for the Secured Parties

By: 
Name: Denise Jones
Title: Assistant Vice President

Intellectual Property Security Agreement Supplement
Signature Page

136957994.6

PATENT
REEL: 047521 FRAME: 0739

IP Security Agreement Supplement November 20, 2012

SCHEDULE I

Patents and Patent Applications

Application Date	Application Number	Grant Date	Patent Number	Country	Class
11/1/2007	07853101.9	8/22/2012	2082061	Austria	CMC
9/10/2004	280480025793.7	5/16/2012	ZL200480025793	China	CMC
10/11/2005	200580034854	6/20/2012	ZL200580034854	China	CMC
10/21/2005	200580040887.6	9/5/2012	ZL200580040887	China	CMC
4/5/2006	200680009907.8	2/22/2012	ZL200680009907	China	QED
9/19/2006	200680043840.X	5/23/2012	ZL200680043840	China	CMC
3/6/2007	200780006685.9	5/30/2012	ZL200780006685	China	CMC
3/16/2007	200780006695.2	5/23/2012	ZL200780006695	China	CMC
7/25/2008	200880101554.3	3/28/2012	ZL200880101554	China	CMC
8/13/2008	200880102761	6/27/2012	ZL200880102761	China	CMC
6/3/2010	201080034414.6			China	CMC
6/18/2010	201080037234.3			China	CMC
7/15/2010	201080041416.8			China	CMC
9/13/2010	201080041294.2			China	CMC
3/30/2010	10764843.8			Europe	CMC
9/13/2010	10817695.9			Europe	CMC
12/5/1997	05004891.7	9/5/2012	1559762	France	CMC
12/20/2001	1992273.1	10/12/2011	1349701	France	QED
9/6/2002	02757659.4	2/29/2012	1432773	France	CMC
12/3/2002	02802586.4	8/29/2012	1451863	France	CMC
8/4/2003	3755733.7	6/27/2012	1526948	France	QED
3/14/2005	05725517.6	1/4/2012	1730246	France	CMC
5/23/2005	05753826.6	5/23/2012	1754241	France	CMC
6/10/2005	05760474.6	12/14/2011	1797151	France	CMC
8/9/2006	06813337.0	10/12/2011	1924666	France	CMC
10/12/2006	06825857.3	3/21/2012	1934015	France	CMC
7/5/2007	07013341.8	9/5/2012	1852481	France	CMC
11/1/2007	07853101.9	8/22/2012	2087061	France	CMC
12/5/1997	05004891.7	9/5/2012	69740471.4	Germany	CMC
12/20/2001	1992273.1	10/12/2011	60145521.5	Germany	QED
9/6/2002	02757659.4	2/29/2012	60242310.4	Germany	CMC
12/3/2002	02802586.4	8/29/2012	60243620.6	Germany	CMC
8/4/2003	3755733.7	6/27/2012	60341400.1	Germany	QED
3/14/2005	05725517.6	1/4/2012	602005031968.9	Germany	CMC
5/23/2005	05753826.6	5/23/2012	60200503431	Germany	CMC

Application Date	Application Number	Grant Date	Patent Number	Country	IPC Class
6/10/2005	05760474.6	12/14/2011	602005031664.7	Germany	CMC
8/9/2006	06813337.0	10/12/2011	602006025102	Germany	CMC
10/12/2006	06825857.3	3/21/2012	1934015	Germany	CMC
7/5/2007	07013341.8	9/5/2012	60147092.3	Germany	CMC
11/1/2007	07853101.9	8/22/2012	602007025006.4	Germany	CMC
3/14/2005	05725517.6	1/4/2012	1730246	Ireland	CMC
10/12/2006	06825857.3	3/21/2012	1934015	Ireland	CMC
7/5/2007	07013341.8	9/5/2012	1852481	Ireland	CMC
11/1/2007	07853101.9	8/22/2012	2087061	Ireland	CMC
10/11/2005	182170	3/30/2012	182170	Israel	CMC
10/21/2005	182797	12/1/2011	182797	Israel	CMC
4/19/2006	186687	7/31/2012	186687	Israel	CMC
9/21/2006	190428	7/31/2012	190428	Israel	CMC
10/12/2006	190342	9/29/2012	190342	Israel	CMC
7/10/2007	196221	3/30/2012	196221	Israel	CMC
12/20/2001	1992273.1	10/12/2011	1349701	Italy	QED
12/3/2002	02802586.4	8/29/2012	1451863	Italy	CMC
11/1/2007	07853101.9	8/22/2012	2087061	Italy	CMC
12/19/1997	2008-066541	7/13/2012	5038199	Japan	CMC
7/28/1998	10-212514	2/3/2012	4917195	Japan	CMC
6/25/1999	2007-158007	7/6/2012	5032214	Japan	CMC
7/26/2000	2006-131649	8/31/2012	5073961	Japan	CMC
11/15/2000	2001-539036	3/9/2012	4943614	Japan	CMC
11/15/2000	2001-539035	3/9/2012	4943613	Japan	CMC
12/20/2001	2009-287496	6/8/2012	5009356	Japan	QED
8/4/2003	2010-015358	4/13/2012	4971471	Japan	QED
2/2/2004	2006-503246	2/17/2012	4927526	Japan	CMC
6/3/2004	2006-517168	1/20/2012	4908207	Japan	CMC
6/3/2004	2006-517174	9/21/2012	5090732	Japan	CMC
9/14/2004	2006-526983	5/11/2012	4991294	Japan	CMC
1/5/2005	2006-549362	6/1/2012	5006048	Japan	CMC
3/14/2005	2007-505000	11/4/2011	4856055	Japan	CMC
3/14/2005	2007-505002	3/23/2012	4955535	Japan	CMC
5/23/2005	2007-515251	3/16/2012	4950038	Japan	CMC
6/10/2005	2007-516582	3/22/2012	4938654	Japan	CMC
10/21/2005	2007-539010	4/6/2012	4965451	Japan	CMC
10/21/2005	2007-538999	9/7/2012	5080261	Japan	CMC
12/2/2005	2005-349782	10/28/2011	4851174	Japan	CMC
4/5/2006	2008-505464	2/3/2012	4917088	Japan	QED
8/8/2006	2008-526988	6/8/2012	5009914	Japan	CMC

Application Date	Publication Number	Grant Date	Patent Number	Country	IPC Class
3/30/2010	2012-503590			Japan	CMC
6/3/2010	2012-514107			Japan	CMC
6/18/2010	2012-517608			Japan	CMC
7/15/2010	2012-520766			Japan	CMC
9/13/2010	2012-529813			Japan	CMC
2/4/2004	10-2005-7014686			Korea	CMC
2/19/2004	10-2005-7013903			Korea	CMC
6/3/2004	10-2005-7024127			Korea	CMC
6/3/2004	10-2005-7024154			Korea	CMC
6/3/2004	10-2005-7025218			Korea	CMC
11/18/2004	10-2006-7012513			Korea	QED
1/5/2005	10-2006-7013620			Korea	CMC
3/4/2005	10-2006-7019562			Korea	CMC
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6/10/2005	10-2007-7001162			Korea	CMC
8/31/2005	10-2007-7007136			Korea	CMC
10/1/2005	10-2007-7010501			Korea	CMC
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10/21/2005	10-2007-7011829			Korea	CMC
10/21/2005	10-2007-7012608			Korea	CMC
3/31/2006	10-2007-7026848			Korea	CMC
6/22/2006	10-2007-7030643			Korea	CMC
8/9/2006	10-2008-7006318			Korea	CMC
9/29/2006	10-2008-7008090			Korea	CMC
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1/31/2007	10-2008-7021237			Korea	CMC
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5/1/2008	10-2009-7025224			Korea	CMC
11/20/2008	10-2010-7014104			Korea	CMC
6/18/2010	10-2012-7001659			Korea	CMC
7/15/2010	10-2012-7003925			Korea	CMC
9/13/2010	10-2012-7009596			Korea	CMC
7/10/2007	PI 20090242			Malaysia	CMC
9/4/2007	PI 20090855			Malaysia	CMC
3/2/2009	PI 2010004033			Malaysia	CMC
6/3/2010	PI 2011005864			Malaysia	CMC
6/18/2010	PI 2011006201			Malaysia	CMC
9/13/2010	PI 2012001136			Malaysia	CMC
12/20/2001	1992273.1			Netherlands	QED

Publication Date	Application Number	Grant Date	Patent Number	Country	IPC Class
1/1/2007	07853101.9	8/22/2012	2087061	Netherlands	CMC
10/21/2005	200907175-4	6/29/2012	157354	Singapore	CMC
6/6/2006	201004136-6	12/30/2011	163506	Singapore	CMC
8/9/2006	201005945-9	7/31/2012	178632	Singapore	CMC
9/21/2006	201007173-6	8/31/2012	166114	Singapore	CMC
8/29/2007	200901296-4	10/14/2011	P150331	Singapore	CMC
9/4/2007	200901497-8	11/30/2011	150715	Singapore	CMC
1/8/2009	201004956-7	3/30/2012	163079	Singapore	CMC
3/2/2009	201006239-6	7/31/2012	164190	Singapore	CMC
5/7/2009	201008442-4	12/15/2011	166498	Singapore	CMC
7/6/2009	201100095-7	12/30/2011	168082	Singapore	CMC
12/17/2009	201104507-7	3/30/2012	172276	Singapore	CMC
12/21/2009	201104523-4	5/31/2012	172288	Singapore	CMC
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6/3/2010	201108963-8			Singapore	CMC
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12/5/1997	05004891.7	9/5/2012	1559762	UK	CMC
12/20/2001	1992273.1	10/12/2011	1349701	UK	QED
8/4/2003	3755733.7	6/27/2012	1526948	UK	QED
3/14/2005	05725517.6	1/4/2012	1730246	UK	CMC
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