

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

EPAS ID: PAT5286935

<b>SUBMISSION TYPE:</b>	RESUBMISSION
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>RESUBMIT DOCUMENT ID:</b>	505149682

**CONVEYING PARTY DATA**

Name	Execution Date
ABB OY	04/17/2018

**RECEIVING PARTY DATA**

<b>Name:</b>	ABB SCHWEIZ AG
<b>Street Address:</b>	BROWN BOVERI STRASSE 6
<b>City:</b>	BADEN
<b>State/Country:</b>	SWITZERLAND
<b>Postal Code:</b>	5400

**PROPERTY NUMBERS Total: 156**

Property Type	Number
Patent Number:	5942874
Patent Number:	6147887
Patent Number:	6175256
Patent Number:	6184740
Patent Number:	6195274
Patent Number:	6229356
Patent Number:	6252436
Patent Number:	6265724
Patent Number:	6313599
Patent Number:	6335607
Patent Number:	6370049
Patent Number:	6396236
Patent Number:	6498452
Patent Number:	6552510
Patent Number:	6597148
Patent Number:	6844794
Patent Number:	6859374
Patent Number:	6934169
Patent Number:	6940253

PATENT

Property Type	Number
Patent Number:	6958923
Patent Number:	6985371
Patent Number:	6999329
Patent Number:	7023160
Patent Number:	7034510
Patent Number:	7036223
Patent Number:	7059390
Patent Number:	7067997
Patent Number:	7164562
Patent Number:	7215099
Patent Number:	7227325
Patent Number:	7250739
Patent Number:	7262577
Patent Number:	7274573
Patent Number:	7279802
Patent Number:	7330095
Patent Number:	7349814
Patent Number:	7372696
Patent Number:	7388765
Patent Number:	7408791
Patent Number:	7417408
Patent Number:	7508688
Patent Number:	7515447
Patent Number:	7560894
Patent Number:	7589984
Patent Number:	7652602
Patent Number:	7663850
Patent Number:	7670163
Patent Number:	7671548
Patent Number:	7679425
Patent Number:	7706396
Patent Number:	7724503
Patent Number:	7729148
Patent Number:	7741796
Patent Number:	7755501
Patent Number:	7759897
Patent Number:	7855900
Patent Number:	7884582

<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	7888986
<b>Patent Number:</b>	7889040
<b>Patent Number:</b>	7969112
<b>Patent Number:</b>	8035470
<b>Patent Number:</b>	8059428
<b>Patent Number:</b>	8064225
<b>Patent Number:</b>	8065025
<b>Patent Number:</b>	8097970
<b>Patent Number:</b>	8134832
<b>Patent Number:</b>	8138932
<b>Patent Number:</b>	8139338
<b>Patent Number:</b>	8149604
<b>Patent Number:</b>	8159847
<b>Patent Number:</b>	8203346
<b>Patent Number:</b>	8207692
<b>Patent Number:</b>	8253354
<b>Patent Number:</b>	8288889
<b>Patent Number:</b>	8319490
<b>Patent Number:</b>	8368384
<b>Patent Number:</b>	8378607
<b>Patent Number:</b>	8379384
<b>Patent Number:</b>	8400087
<b>Patent Number:</b>	8405344
<b>Patent Number:</b>	8415916
<b>Patent Number:</b>	8422225
<b>Patent Number:</b>	8424320
<b>Patent Number:</b>	8432714
<b>Patent Number:</b>	8436558
<b>Patent Number:</b>	8462501
<b>Patent Number:</b>	8462507
<b>Patent Number:</b>	8483981
<b>Patent Number:</b>	8493759
<b>Patent Number:</b>	8545189
<b>Patent Number:</b>	8564958
<b>Patent Number:</b>	8575974
<b>Patent Number:</b>	8581528
<b>Patent Number:</b>	8581532
<b>Patent Number:</b>	8644043

Property Type	Number
Patent Number:	8683327
Patent Number:	8690542
Patent Number:	8710885
Patent Number:	8723459
Patent Number:	8740574
Patent Number:	8742732
Patent Number:	8780591
Patent Number:	8800640
Patent Number:	8841872
Patent Number:	8872382
Patent Number:	8970063
Patent Number:	9021876
Patent Number:	9027398
Patent Number:	9030282
Patent Number:	9045055
Patent Number:	9054598
Patent Number:	9590619
Patent Number:	9759219
Patent Number:	9941873
Patent Number:	9950914
Patent Number:	10002008
Patent Number:	D503931
Patent Number:	D510319
Patent Number:	D510320
Patent Number:	D511137
Patent Number:	D511150
Patent Number:	D512026
Patent Number:	D512696
Patent Number:	D521466
Patent Number:	D541743
Patent Number:	D541744
Patent Number:	D541745
Patent Number:	D548182
Patent Number:	D548183
Patent Number:	D573090
Patent Number:	D610553
Patent Number:	D662091
Patent Number:	D671099

Property Type	Number
Patent Number:	D683698
Patent Number:	D685733
Patent Number:	D686158
Patent Number:	D691088
Patent Number:	D691557
Patent Number:	D691558
Patent Number:	D700574
Patent Number:	D708133
Patent Number:	D708135
Patent Number:	D713337
Patent Number:	D792848
Application Number:	13523066
Application Number:	13624366
Application Number:	14172280
Application Number:	14498188
Application Number:	14547760
Application Number:	14565153
Application Number:	14854711
Application Number:	14861030
Application Number:	15189902
Application Number:	15192579
Application Number:	29559938
Application Number:	29559953

**CORRESPONDENCE DATA**

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**Address Line 4:** ARLINGTON, VIRGINIA 22203

**ATTORNEY DOCKET NUMBER:** GPK-227-268

**NAME OF SUBMITTER:** GORDON P. KLANCNIK

**SIGNATURE:** /Gordon P. Klancnik/

**DATE SIGNED:** 12/17/2018

**Total Attachments: 53**



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ASSIGNMENT OF PATENTS

WHEREAS, **ABB Oy**, a corporation organized and existing under the laws of Finland, having its principal place of business at Strömbergintie 1, 00380 Helsinki, Finland (hereinafter called the ASSIGNOR), is the proprietor of Patent(s) and Patent Application(s) identified and listed on Annex A hereto; and

WHEREAS, **ABB Schweiz AG**, a corporation organized and existing under the laws of Switzerland, having its principal place of business at Brown Boveri Strasse 6, 5400 Baden, Switzerland (hereinafter called the ASSIGNEE), is desirous of acquiring the entire right, title and interest of the ASSIGNOR in and to the aforesaid Patent(s) and Patent Application(s),

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable considerations, the receipt of which is hereby acknowledged, the ASSIGNOR hereby conveys, sells, assigns and transfers to the ASSIGNEE, its successors and assigns, the entire right, title and interest in and to the aforesaid Patent(s) and Patent Application(s) and any divisions, continuations, continuations-in-part, requests for continuing examinations, renewals, reissues, reexaminations, patent cooperation treaty equivalents and foreign counterparts and extensions thereof, including all emoluments, advantages, profits and benefits accruing or belonging thereto, and all patents or patent applications to which any of the aforesaid Patent(s) and Patent Application(s) directly or indirectly claims priority or for which any of the aforesaid Patent(s) and Patent Application(s) directly or indirectly forms a basis for priority.

The ASSIGNOR hereby further covenants and agrees that it will communicate to the ASSIGNEE any and all facts known to it respecting the aforesaid Patent(s) and Patent Application(s), and testify in any legal proceeding, sign all lawful papers, execute and deliver all papers and take any actions that may be necessary or desirable to perfect the title to any of the aforesaid Patent(s) and Patent Application(s), execute all divisions, continuations, reexaminations, reissues, substitutes and other required applications, and make all rightful oaths and generally do everything possible to aid the ASSIGNEE to obtain and enforce proper patent protection for said Patent(s) and Patent Application(s) in all countries.

The ASSIGNOR consents to the ASSIGNEE'S proceeding with the aforesaid Patent Application(s), if any, in its own name in substitution of the ASSIGNOR and the said ASSIGNOR agrees to do all that may be required to put the foregoing into effect.

IN WITNESS WHEREOF, the said ASSIGNOR has executed this document on this 17th day of April, 2018.

ABB Oy

By:

p.p. Tapio Metso

p.p. Sari Kujala

Attest:

Nina Laurila

This is to certify that Tapio Metso and Sari Kujala are according to the books register entries agents to ABB Oy

Notary  
E.O. No. 03-05-2018

PATENT

REEL: 047801 FRAME: 0181



IN WITNESS WHEREOF, the said ASSIGNEE has executed this document on  
this 14 day of June, 2018.

ABB Schweiz AG

By: [Signature]  
RELE COPIES  
NO CHGE

Attest: [Signature]  
Christine Häusermann

by: [Signature]  
BAZMI HUSAIN  
CFO

Assignment from ABB Oy to ABB Schweiz AG  
ANNEX A

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Country	Filed Date	Application Number	Grant Date	Patent No.
Brazil	2012-02-13	1020120031841		
Brazil	2011-11-16	PI1105482/4		
Brazil	2011-09-15	PI1104649-0		
Brazil	2004-10-29	PI0415984-5		
Canada	2009-11-16	2,685,622	2013-12-31	2685622
China	2009-07-24	200930190205.0	2010-03-31	ZL 200930190205.0
China	2010-08-24	201030293073.7	2011-04-13	ZL201030293073.7
China	2011-09-23	201130342597.5	2012-06-27	201130342597.5
China	2011-09-23	201230048250.4	2012-07-18	201230048250.4
China	2011-09-21	201130343281.8	2012-02-22	ZL201130343281.8
China	2011-09-21	201130343282.2	2012-06-13	201130343282.2
China	2011-09-21	201230048271.6	2012-07-04	201230048271.6
China	2011-09-21	201230048272.0	2012-07-18	201230048272.0
China	2011-09-21	201230048273.5	2012-07-18	201230048273.5
China	2011-09-21	201230048274.X	2012-07-18	201230048274.X
China	2011-09-21	201230048275.4	2012-07-04	201230048275.4
China	2011-09-21	201230048281.X	2012-07-18	201230048281.X
China	2011-09-21	201230048282.4	2012-07-04	201230048282.4
China	2014-07-08	201430235647.3	2014-12-10	201430235647.3
China	2013-09-13	201330441399.3	2014-03-19	201330441399.3
China	2014-10-17	201430394334.2	2015-04-15	ZL201430394334.2
China	2010-08-10	201020288863.0	2011-06-29	ZL201020288863.0
China	2010-11-02	201020598942.1	2011-10-12	ZL201020598942.1
China	2012-02-28	201210048285.7	2015-05-20	ZL201210048285.7
China	2010-06-13	201020229521.1	2011-06-15	ZL201020229521.1

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Country	Filed Date	Application Number	Grant Date	Patent No.
China	2012-05-22	201220231163.7	2012-12-12	ZL201220231163.7
China	2011-10-20	201110330043.2	2014-10-08	ZL201110330043.2
China	2011-03-23	201120084073.5	2012-01-18	ZL201120084073.5
China	2011-09-15	201110286846.2	2015-07-02	201110286846.2
China	2010-11-09	201020603386.2	2011-11-02	ZL201020603386.2
China	2012-03-27	201210083774.6	2014-12-24	ZL201210083774.6
China	2012-03-31	201210093763.6	2015-03-18	ZL201210093763.6
China	2011-07-12	201120247930.9	2012-05-23	ZL201120247930.9
China	2012-06-14	201210199021.1	2015-05-20	ZL201210199021.1
China	2012-04-27	201220187550.5	2013-06-26	ZL201220187550.5
China	2012-02-20	201210039848.6	2015-05-06	ZL201210039848.6
China	2012-04-05	201210098078.2	2014-12-31	ZL201210098078.2
China	2012-04-09	201220146739.X	2012-12-26	201220146739.X
China	2012-02-07	201220038324.0	2013-01-02	ZL201220038324.0
China	2011-11-18	201120462063.0	2012-07-11	201120462063.0
China	2012-09-25	201220494399.X	2013-06-26	ZL201220494399.X
China	2012-07-24	201210258764.1	2015-04-01	ZL201210258764.1
China	2012-12-07	201220674622.9	2013-11-13	ZL201220674622.9

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Country	Filed Date	Application Number	Grant Date	Patent No.
China	2013-01-25	201320043575.2	2013-12-04	ZL201320043575.2
China	2012-02-06	201220037333.8	2012-10-10	201220037333.8
China	2012-11-26	201220632601.0	2013-08-07	ZL201220632601.0
China	2013-04-01	201310110531.1		
China	2012-07-26	201220367080.0	2013-05-01	ZL201220367080.0
China	2013-10-08	201320617291.X	2014-08-06	ZL201320617291.X
China	2012-11-09	201220590929.0	2013-07-24	201220590929.0
China	2013-09-04	201310397555.X		
China	2012-10-22	201220542274.X	2013-06-26	ZL201220542274.X
China	2013-01-24	201320040369.6	2013-08-14	ZL201320040369.6
China	2014-03-12	201420111701.8	2014-10-08	ZL201420111701.8
China	2014-12-17	201410790158.3	2017-11-14	ZL201410790158.3
China	2014-12-17	201410790143.7		
China	2013-04-25	201320216877.5	2013-10-16	ZL201320216877.5
China	2013-12-02	201320778470.1	2014-08-13	ZL201320778470.1
China	2014-09-10	201410457841.5	2017-05-24	ZL201410457841.5
China	2014-12-02	201410720794.9		
China	2014-08-12	201410395054.2		
China	2014-07-10	201410327699.2		
China	2014-10-17	201410554645.X		
China	2015-02-17	201510133061.X	2017-08-29	ZL201510133061X
China	2014-06-25	201420344322.3	2015-03-18	ZL201420344322.3

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Country	Filed Date	Application Number	Grant Date	Patent No.
China	2014-11-18	201410659642.2	2017-11-03	ZL201410659642.2
China	2014-11-21	201410674273.4	2017-07-21	ZL201410674273.4
China	2013-07-11	201320412693.6	2014-10-01	ZL201320412693.6
China	2014-09-26	201410503047.X	2017-12-29	ZL201410503047.X
China	2015-03-13	201510111675.8	2017-04-19	ZL201510111675.8
China	2015-02-15	201520110736.4	2015-11-11	ZL201520110736.4
China	2015-03-09	201510102932.1		
China	2014-01-09	201420013193.X	2014-08-30	ZL201420013193.X
China	2015-09-28	201510629257.6		
China	2015-07-14	201520508089.2	2015-11-18	ZL201520508089.2
China	2004-05-13	200480013189.2	2009-03-04	ZL200480013189.2
China	2004-05-26	200480000710.9	2008-01-02	200480000710.9
China	2004-05-26	200480000549.5	2009-03-25	ZL200480000549.5
China	2004-10-29	200480032575.6	2009-04-15	ZL 200480032575.6
China	2004-03-31	200480000321.6	2008-06-11	ZL 200480000321.6
China	2006-12-20	200610169058.4	2012-03-21	200610169058.4
China	2008-06-06	200810109623.7	2013-05-29	ZL200810109623.7
China	2008-06-06	200810109711.7	2011-12-14	ZL200810109711.7
China	2008-06-30	200810129526.4	2012-01-11	ZL200810129526.4
China	2009-08-07	200910161070.4	2012-11-07	200910161070.4
China	2009-07-31	200910161522.9	2013-03-06	200910161522.9
China	2009-01-23	200910008464.6	2015-02-04	ZL200910008464.6

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Country	Filed Date	Application Number	Grant Date	Patent No.
China	2009-03-13	200910117892.2	2012-05-23	ZL200910117892.2
China	2008-12-26	200810188826.X	2011-06-29	ZL200810188826.X
China	2009-09-11	200910170794.5	2013-01-02	ZL200910170794.5
China	2009-03-13	200910117891.8	2012-01-25	ZL200910117891.8
China	2009-05-22	200910143032.6	2012-10-24	200910143032.6
China	2009-12-17	200910261034.5	2014-02-26	ZL200910261034.5
China	2009-09-03	200910172917.9	2014-10-29	ZL200910172917.9
China	2009-10-01	200980139724.1	2014-05-14	ZL200980139724.1
China	2009-12-07	200910253636.6	2014-08-27	ZL200910253636.6
China	2009-08-27	200910171360.7	2014-08-27	ZL200910171360.7
China	2009-06-03	200910145592.5	2012-11-28	200910145592.5
China	2010-01-26	201010103767.9	2013-02-20	ZL201010103767.9
China	2009-11-05	200910207464.9	2013-01-16	ZL200910207464.9
China	2009-11-30	200910246522.9	2013-10-30	ZL200910246522.9
China	2010-03-03	201010128447.9	2013-03-13	201010128447.9
China	2010-03-30	201020150740.0	2011-03-09	ZL201020150740.0
China	2010-01-27	201010103979.7	2013-04-03	ZL201010103979.7
China	2010-07-02	201010226399.7	2013-06-12	ZL201010226399.7
China	2010-04-19	201010152037.8	2013-06-05	ZL201010152037.8
China	2010-05-13	201010178565.0	2012-07-11	201010178565.0
China	2010-09-27	201010507124.0	2014-06-04	ZL201010507124.0

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Country	Filed Date	Application Number	Grant Date	Patent No.
China	2010-07-02	201010220764.3	2014-04-02	ZL201010220764.3
China	2010-07-22	201020269271.4	2011-06-29	ZL201020269271.4
China	2010-09-27	201010507076.5	2014-07-16	ZL201010507076.5
China	2010-09-03	201010274544.9	2014-08-20	ZL201010274544.9
China	2009-11-25	200920273314.3	2010-11-24	ZL200920273314.3
China	2011-01-21	201110026575.7	2014-03-12	ZL201110026575.7
China	2010-09-15	201010285632.9	2014-03-05	ZL201010285632.9
China	2011-04-14	201110096349.6	2014-06-04	ZL201110096349.6
China	2011-04-14	201110096361.7	2015-01-28	ZL201110096361.7
China	2011-02-25	201120053636.4	2011-03-28	ZL201120053636.4
China	2010-05-12	201020194510.4	2011-04-13	ZL201020194510.4
China	2010-10-21	201010521421.0		
China	2010-10-21	201010521407.0	2016-02-10	ZL201010521407.0
China	2010-12-16	201010610759.3	2013-09-25	ZL201010610759.3
China	2011-11-16	201110375114.0	2014-10-29	ZL201110375114.0
China	2011-05-09	201110120305.2	2014-06-18	201110120305.2
China	2011-03-22	201120081590.7	2011-11-02	201120081590.7
China	2011-03-16	201120075299.9	2012-01-11	ZL201120075299.9
China	2011-06-02	201110154219.3	2014-01-01	ZL201110154219.3

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Country	Filed Date	Application Number	Grant Date	Patent No.
China	2012-07-10	201280042827.8	2018-02-08	ZL201280042827.8
China	2016-06-24	201610471731.1		
China	2016-06-24	201610472950.3		
Denmark	2010-10-26	BA201000200	2012-01-13	BA201000200
Denmark	2011-12-27	11195777.5	2014-12-03	2610693
Denmark	2013-12-20	13198826.3		
Denmark	2005-03-04	05717261.1	2008-07-23	1721131
Denmark	2004-03-31	04724628.5	2012-10-31	1509990
Denmark	2005-07-27	05106884.9	2008-07-16	1626175
Denmark	2008-12-09	08171028.7	2012-07-11	2196678
Denmark	2010-03-25	BA201000061	2010-07-23	BR201000061
Denmark	2010-08-09	10172284.1	2012-05-23	2306020
European Patent	2011-03-01	11166403.5		
European Patent	2010-10-18	10187837.9		
European Patent	2010-09-16	10177110.3		



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Country	Filed Date	Application Number	Grant Date	Patent No.
European Patent	2010-11-17	10191467.9		
European Patent	2011-03-29	11160200.9		
European Patent	2011-03-29	11160232.2		
European Patent	2012-11-09	12191999.9		
European Patent	2012-09-05	12183036.8		
European Patent	2012-06-08	12171290.5		
European Patent	2011-02-22	11155234.0	2018-04-04	2493067
European Patent	2012-07-09	12175493.1		
European Patent	2012-05-09	12167325.5		
European Patent	2014-06-23	14173432.7		
European Patent	2013-11-19	13193407.7		
European Patent	2013-12-20	13198826.3		
European Patent	2013-12-23	13199270.3		
European Patent	2013-10-24	13190094.6	2018-05-02	2866539
European Patent	2013-09-11	13183897.1		

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Country	Filed Date	Application Number	Grant Date	Patent No.
European Patent	2013-12-04	13195668.2		
European Patent	2013-12-11	13196677.2		
European Patent	2014-01-16	14151422.4		
European Patent	2013-08-13	13180239.9		
European Patent	2013-09-26	13186152.8		
European Patent	2013-07-12	13176266.8		
European Patent	2014-02-25	14156570.5		
European Patent	2013-11-29	13195008.1	2016-06-29	2879476
European Patent	2014-03-12	14159107.3		
European Patent	2002-06-13	02743286.3	2006-04-05	1402622
European Patent	2004-03-16	04720889.7	2007-10-10	1523841
European Patent	2004-05-26	04734850.3	2017-07-05	1537647
European Patent	2004-10-29	04791433.8	2010-02-24	1644975
European Patent	2004-08-20	04103992.6	2010-03-31	1513250
European Patent	2005-01-28	05708135.8	2012-09-19	1726075
European Patent	2004-12-16	04106635.8	2009-07-22	1553692
European Patent	2005-03-04	05717261.1	2008-07-23	1721131
European Patent	2004-03-31	04724628.5	2012-10-31	1509990
European Patent	2005-03-15	05717278.5	2011-11-16	1725774

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Country	Filed Date	Application Number	Grant Date	Patent No.
European Patent	2005-05-03	05103688.7	2007-10-31	1605741
European Patent	2004-10-28	04105346.3	2009-04-01	1653601
European Patent	2005-06-02	05104798.3	2008-10-29	1729141
European Patent	2006-01-03	06100023.8	2007-09-12	1684565
European Patent	2006-11-20	06124370.5	2017-03-29	1816733
European Patent	2006-04-20	06112815.3	2016-11-09	1847714
European Patent	2007-09-14	07116396.8	2010-09-01	
European Patent	2006-11-27	06124807.6	2009-08-05	1926212
European Patent	2007-01-12	07100472.5	2010-07-28	1944860
European Patent	2008-03-14	08152727.7		
European Patent	2010-01-20	10151195.4	2017-09-20	2354744
European Patent	2012-07-12	12738316.4	2017-06-14	2732539
European Patent	2016-06-25	EP16175583.0		
European Patent	2016-06-28	16175730.7		

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Country	Filed Date	Application Number	Grant Date	Patent No.
European Union IPO	2003-09-10	000079827-0001-0004	2003-09-10	000079827-0001-0004
European Union IPO	2003-12-16	119391-0001 - 0003	2004-04-06	119391-0001 - 0003
European Union IPO	2005-03-29	000320866-0001 - 0002	2005-03-29	000320866-0001 -0002
European Union IPO	2005-08-12	000389549-0001	2005-08-12	000389549-0001
European Union IPO	2006-07-05	000559828	2006-07-05	000559828-0001 -0002
European Union IPO	2007-07-05	00756697	2007-07-05	00756697-0001
European Union IPO	2009-01-26	001082267	2009-01-26	001082267-0001
European Union IPO	2010-02-24	001673435	2010-02-24	001673435-0001 -0003
European Union IPO	2011-04-08	1271134	2011-04-08	1271134-0001-0004
European Union IPO	2011-04-01	1270102	2011-04-01	1270102-0001-0002
European Union IPO	2011-04-01	1270060	2011-04-01	1270060-0001-0012
European Union IPO	2014-06-05	002477166	2014-06-05	002477166-0001-0003
European Union IPO	2013-03-27	001367171	2013-03-27	001367171-0001
European Union IPO	2014-05-16	002465385	2014-05-16	002465385-0001
Finland	1999-03-19	19990254	2000-01-31	20872
Finland	2001-11-21	M20010772	2002-09-30	22812
Finland	2003-03-14	20030110	2003-12-31	23523
Finland	2003-07-04	20030183	2004-04-30	23592
Finland	2010-05-25	U20100254	2010-12-08	8995

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Finland	2010-09-14	U20100393	2011-01-05	9028
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Finland	2010-04-26	U20100207	2010-08-30	8832
Finland	2010-11-15	10191137.8	2013-06-26	2453248
Finland	2011-05-24	U20114045	2011-09-13	9383
Finland	2010-03-12	U20100108	2010-07-20	8786
Finland	2010-10-21	20106087	2012-04-30	122638
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Finland	2010-05-07	U20100222	2010-12-16	9006
Finland	2010-07-12	20105795	2013-01-15	123242
Finland	2011-05-02	U20114020	2011-09-13	9379
Finland	2010-09-22	U20100405	2011-01-05	9029
Finland	2011-02-23	U20110072	2011-05-12	9214
Finland	2012-06-29	U20124132	2012-11-08	9869
Finland	2014-03-31	U20144077	2014-06-17	10525
Finland	2011-03-31	11160573.9	2013-10-02	2505848
Finland	2011-11-10	U20114165	2012-01-25	9540
Finland	2012-01-11	12150758.6	2014-03-19	2614870
Finland	2011-11-11	20116116	2012-12-14	123196
Finland	2011-09-14	20115935	2014-02-28	124054
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Finland	2011-05-11	U20110155	2011-08-17	9338

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Finland	2011-04-28	U20114018	2011-08-17	9342
Finland	2011-08-29	11179147.1	2014-12-10	2565455
Finland	2011-04-11	U20110128	2011-08-17	9333
Finland	2011-11-15	U20114167	2012-01-20	9534
Finland	2011-09-27	U20114126	2012-12-31	9923
Finland	2011-09-26	U20124176	2012-10-08	9829
Finland	2012-01-30	12153017.4	2014-10-29	2620202
Finland	2011-12-08	U20114189	2012-02-24	9575
Finland	2012-05-23	U20124107	2012-09-12	9787
Finland	2011-12-27	11195777.5	2014-12-03	2610693
Finland	2011-12-20	U20114197	2012-03-19	9695
Finland	2014-06-09	U20144135	2014-09-09	10610
Finland	2012-07-10	U20124144	2012-07-30	9739
Finland	2012-06-27	U20124130	2012-07-30	9738
Finland	2012-08-03	U20124150	2012-09-14	9792
Finland	2012-11-14	20126193	2014-06-13	124291
Finland	2012-10-02	U20124206	2012-11-08	9862
Finland	2012-07-02	U20124138	2012-09-21	9803
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Finland	2013-11-12	U20134239	2014-01-15	10350

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Finland	2013-03-04	U20134053	2013-04-16	10052
Finland	2012-11-30	U20124251	2013-01-10	9945
Finland	2013-06-27	20135705	2014-09-30	124495
Finland	2013-10-17	20136030	2016-10-31	126367
Finland	2013-11-20	U20134243	2014-01-23	10364
Finland	2013-06-26	U20134153	2013-06-26	10175
Finland	2014-02-14	U20144036	2014-03-28	10436
Finland	2014-02-14	U20144038	2014-04-07	10441
Finland	2013-04-23	U20134101	2013-06-12	10120
Finland	2014-02-20	U20144041	2014-06-22	10496
Finland	2013-10-14	U20134221	2013-11-20	10314
Finland	2014-02-20	U20144042	2014-04-11	10442
Finland	2014-02-14	U20144037	2014-03-28	10437
Finland	2014-03-07	U20144061	2014-05-15	10484
Finland	2014-11-25	U20144251	2014-12-17	10729
Finland	2001-06-14	20011264	2004-02-27	113106
Finland	2001-10-15	20012004	2003-09-15	111770
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Finland	2002-06-13	20021144	2004-05-31	113720
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Finland	2003-05-15	20030732	2005-02-28	115092
Finland	2003-05-27	20030798	2005-07-29	116874
Finland	2003-05-28	20030809	2005-03-31	115266
Finland	2003-10-30	20031580	2005-11-30	116492
Finland	2003-09-05	20031267	2005-07-29	115873
Finland	2003-09-22	20031359	2005-11-15	116430
Finland	2004-01-29	20040129	2005-12-15	116550
Finland	2003-12-19	20031869	2005-10-31	116337
Finland	2005-03-04	05717261.1	2008-07-23	1721131
Finland	2004-01-13	20040034	2005-09-30	116174
Finland	2004-03-16	20040401	2007-11-30	118486
Finland	2004-03-04	20045062	2005-09-30	116177
Finland	2004-06-11	20045215	2006-11-15	117528
Finland	2004-06-11	20045216	2006-11-30	117590
Finland	2004-08-11	20045289	2007-05-31	118027
Finland	2004-08-13	20045292	2008-12-31	119579
Finland	2004-08-24	20046305	2011-04-29	121833
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Finland	2004-08-30	20045313	2008-12-31	119578
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Finland	2005-06-02	05104798.3	2008-10-29	1729141
Finland	2005-01-20	20055029	2009-06-30	120128
Finland	2002-08-22	20045494	2011-06-30	121986
Finland	2005-08-19	05107612.3	2008-04-09	1755211
Finland	2005-10-19	05109738.4	2008-11-26	1777530
Finland	2005-06-06	20055287	2007-09-14	118287
Finland	2005-06-29	20055360	2007-11-30	118499
Finland	2005-06-22	20055336	2007-02-15	117776
Finland	2006-06-06	20065382	2008-07-31	119136
Finland	2005-12-20	20055684	2007-09-14	118284
Finland	2006-01-09	20065011	2007-07-13	118145
Finland	2006-01-23	06100694.6	2010-08-04	1811641
Finland	2006-04-20	06112815.3	2016-11-09	1847714
Finland	2006-06-15	06115523.0	2009-10-14	1868288
Finland	2006-12-14	20065805	2008-08-29	119212

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Finland	2006-11-27	06124807.6	2009-08-05	1926212
Finland	2006-11-06	20065700	2008-07-15	119086
Finland	2007-06-08	07109844.6	2010-08-11	2001029
Finland	2007-01-12	07100472.5	2010-07-28	1944860
Finland	2007-04-27	07107115.3	2009-10-21	1986317
Finland	2008-06-11	U20080195	2009-04-21	8244
Finland	2007-06-29	20075497	2009-07-31	120219
Finland	2007-12-20	20075946	2009-11-30	120565
Finland	2007-11-28	20075852	2010-03-15	120808
Finland	2008-10-22	U20080336	2008-12-17	8155
Finland	2009-04-22	U20090153	2009-10-14	8465
Finland	2008-01-25	20085063	2010-04-30	120926
Finland	2007-12-27	20075964	2010-06-15	121052
Finland	2008-05-05	U20080146	2008-10-20	8045
Finland	2008-03-14	08152726.9	2010-07-07	2104117
Finland	2008-04-11	U20080124	2008-10-20	8044
Finland	2008-09-08	U20090329	2009-12-15	8557
Finland	2008-05-29	20085514	2009-09-30	120375
Finland	2008-11-28	U20100339	2010-10-27	8919

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Finland	2008-06-06	U20080187	2008-11-21	8083
Finland	2008-12-19	08172322.3	2014-04-16	2200142
Finland	2008-09-04	20085826	2011-03-15	121721
Finland	2009-03-17	U20090100	2009-08-05	8383
Finland	2008-09-24	U20080296	2008-11-28	8118
Finland	2008-10-17	08166883.2	2011-03-30	2178211
Finland	2009-10-01	09748360.6	2013-03-20	2347643
Finland	2008-12-09	08171028.7	2012-07-11	2196678
Finland	2008-09-23	08164883.4	2012-02-29	2166635
Finland	2009-02-05	09152140.1	2011-10-26	2216794
Finland	2009-02-05	09152138.5	2012-08-29	2216905
Finland	2008-11-10	08168700.6	2011-01-12	2196429
Finland	2009-02-19	U20090063	2009-08-04	8370
Finland	2009-02-20	U20090068	2009-08-04	8371
Finland	2009-04-01	U20100075	2010-05-18	8719
Finland	2009-01-28	09151515.5	2011-11-30	2214303
Finland	2009-01-22	U20090022	2009-07-01	8351
Finland	2008-12-29	U20100511	2009-04-14	9163
Finland	2009-07-03	09164537.4	2012-05-30	2270522
Finland	2009-04-21	U20114113	2011-11-09	9460
Finland	2009-05-15	09160361.3	2013-01-23	2256883
Finland	2009-08-21	U20090304	2009-11-24	8535
Finland	2009-06-30	U20090258	2009-10-28	8500
Finland	2009-08-21	U20090305	2009-11-24	8536
Finland	2010-04-28	U20100213	2010-08-30	8833

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Finland	2009-07-03	09164540.6	2012-08-29	2270523
Finland	2010-05-19	U20100248	2010-09-22	8871
Finland	2009-09-24	20095982	2011-11-30	122305
Finland	2009-06-30	U20090256	2009-10-28	8499
Finland	2009-09-30	20095999	2011-02-23	121689
Finland	2009-09-23	09171057.4	2014-04-23	2305554
Finland	2009-09-29	U20090343	2009-12-15	8560
Finland	2009-09-17	20095959	2012-01-13	122415
Finland	2010-01-20	10151195.4	2017-09-20	2354744
Finland	2011-04-26	U20110142	2011-09-12	9376
Finland	2010-04-15	20105395	2011-09-15	122161
Finland	2010-04-29	10161436.0	2012-09-12	2383779
Finland	2010-04-15	20105396	2011-12-30	122367
Finland	2009-09-24	20095983	2011-07-29	122049
Finland	2011-02-23	U20110073	2011-04-20	9188
Finland	2010-03-02	U20100098	2010-06-10	8758
Finland	2009-12-22	09180402.1	2012-06-27	2339905
Finland	2009-12-22	09180407.0	2012-06-27	2339906
Finland	2011-02-23	U20110070	2011-05-12	9213
Finland	2009-12-18	09179902.3	2012-09-26	2337211
Finland	2010-05-07	10162339.5	2012-09-19	2385011
Finland	2010-03-23	U20100131	2010-08-27	8826
Finland	2011-03-11	U20110091	2011-06-09	9248

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Finland	2012-07-12	12738316.4	2017-06-14	2732539
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France	2010-11-15	10191137.8	2013-06-26	2453248
France	2011-03-31	11160573.9	2013-10-02	2505848
France	2012-01-11	12150758.6	2014-03-19	2614870
France	2011-05-13	11166016.3	2015-02-18	2523215
France	2011-08-26	11178967.3	2013-11-27	2562877
France	2011-08-29	11179147.1	2014-12-10	2665465
France	2012-01-30	12153017.4	2014-10-29	2620202
France	2011-12-27	11195777.5	2014-12-03	2610693
France	2013-12-20	13198826.3		
France	2002-06-13	02743286.3	2006-04-05	1402622
France	2003-06-12	0307074	2014-06-13	0307074
France	2004-03-16	04720889.7	2007-10-10	1523841
France	2004-05-13	04732631.9	2006-08-02	1616379
France	2004-05-26	04734850.3	2017-07-05	1537647

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France	2004-10-29	04791433.8	2010-02-24	1644975
France	2004-08-20	04103992.6	2010-03-31	1513250
France	2005-01-28	05708135.8	2012-09-19	1726075
France	2004-12-16	04106635.8	2009-07-22	1553692
France	2005-03-04	05717261.1	2008-07-23	1721131
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France	2005-03-15	05717278.5	2011-11-16	1725774
France	2005-05-03	05103688.7	2007-10-31	1605741
France	2005-07-27	05106884.9	2008-07-16	1626175
France	2005-07-27	05106886.4	2011-09-14	1626492
France	2004-10-28	04105346.3	2009-04-01	1653601
France	2005-06-02	05104798.3	2008-10-29	1729141
France	2006-01-03	06100023.8	2007-09-12	1684565
France	2005-10-19	05109738.4	2008-11-26	1777530
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France	2006-04-20	06112815.3	2016-11-09	1847714

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France	2006-06-15	06115523.0	2009-10-14	1868288
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France	2006-11-27	06124807.6	2009-08-05	1926212
France	2007-06-08	07109844.6	2010-08-11	2001029
France	2007-01-12	07100472.5	2010-07-28	1944860
France	2007-04-27	07107115.3	2009-10-21	1986317
France	2008-11-27	08170078.3	2013-06-05	2065994
France	2008-03-14	08162726.9	2010-07-07	2104117
France	2008-12-19	08172322.3	2014-04-16	2200142
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France	2009-10-01	09748360.6	2013-03-20	2347643
France	2008-12-09	08171028.7	2012-07-11	2196678
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France	2009-02-05	09152140.1	2011-10-26	2216794
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France	2008-11-10	08168700.6	2011-01-12	2196429
France	2009-01-28	09151515.5	2011-11-30	2214303
France	2009-07-03	09164537.4	2012-05-30	2270522
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France	2010-04-29	10161436.0	2012-09-12	2383779
France	2009-12-22	09180402.1	2012-06-27	2339905
France	2009-12-22	09180407.0	2012-06-27	2339906
France	2009-12-18	09179902.3	2012-09-26	2337211
France	2010-05-07	10162339.5	2012-09-19	2385011
France	2012-07-12	12738316.4	2017-06-14	2732539
Germany (Federal Republic of)	1999-09-15	49908784.4	1999-11-19	49908784.4
Germany (Federal Republic of)	2002-05-17	40204341.3	2002-08-24	40204341.3
Germany (Federal Republic of)	2010-07-22	202010008133.5	2010-09-30	202010008133.5
Germany (Federal Republic of)	2010-11-25	202010012983.4	2011-01-20	202010012983.4
Germany (Federal Republic of)	2010-06-08	202010005578.4	2010-09-19	202010005578.4
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Germany (Federal Republic of)	2011-03-31	11160573.9	2013-10-02	2505848
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Germany (Federal Republic of)	2011-06-21	202011050507.3	2011-08-12	202011050507.3
Germany (Federal Republic of)	2011-08-28	11178967.3	2013-11-27	2562877
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Germany (Federal Republic of)	2011-04-08	202011110423.4	2013-11-26	202011110423.4
Germany (Federal Republic of)	2011-08-29	11179147.1	2014-12-10	2565465
Germany (Federal Republic of)	2012-04-11	202012101290.1	2012-05-02	202012101290.1
Germany (Federal Republic of)	2012-02-01	202012100325.2	2012-02-29	202012100325.2
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Germany (Federal Republic of)	2013-02-13	202013100639.4	2013-03-05	202013100639.4
Germany (Federal Republic of)	2011-12-27	11195777.5	2014-12-03	2610693
Germany (Federal Republic of)	2012-02-01	202012100336.8	2012-02-29	202012100336.8
Germany (Federal Republic of)	2012-06-04	202012013013.7	2014-11-21	202012013013.7
Germany (Federal Republic of)	2012-09-11	202012103448.4	2012-09-28	202012103448.4
Germany (Federal Republic of)	2012-07-12	202012102573.6	2012-08-17	202012102573.6
Germany (Federal Republic of)	2013-09-12	202013104146.7	2013-09-20	202013104146.7
Germany (Federal Republic of)	2012-10-31	202012104179.0	2012-11-23	202012104179.0
Germany (Federal Republic of)	2012-10-17	202012103978.8	2012-11-27	202012103978.8
Germany (Federal Republic of)	2012-12-06	202012104745.4	2013-01-30	202012104745.4

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Country	Filed Date	Application Number	Grant Date	Patent No.
Germany (Federal Republic of)	2014-03-12	202014101114.5	2014-04-10	202014101114.5
Germany (Federal Republic of)	2013-12-20	13198826.3		
Germany (Federal Republic of)	2013-05-07	202013101980.1	2013-05-17	202013101980.1
Germany (Federal Republic of)	2013-11-22	202013105303.1	2013-12-16	202013105303.1
Germany (Federal Republic of)	2014-11-12	202014105425.1	2014-12-03	202014105425.1
Germany (Federal Republic of)	2014-06-24	202014102877.3	2014-08-13	202014102877.3
Germany (Federal Republic of)	2015-01-27	202015100358.7	2015-02-09	202015100358.7
Germany (Federal Republic of)	2015-02-05	202015100540.7	2015-02-26	202015100540.7
Germany (Federal Republic of)	2013-06-04	202013102392.2	2013-06-27	202013102392.2
Germany (Federal Republic of)	2015-01-22	202015100283.1		
Germany (Federal Republic of)	2013-11-21	202013105280.9	2013-12-11	202013105280.9
Germany (Federal Republic of)	2015-02-09	202015100598.9	2015-02-26	202015100598.99
Germany (Federal Republic of)	2015-02-12	202015100678.0	2015-02-23	202015100678.0
Germany (Federal Republic of)	2015-03-05	202015101052.4	2015-03-23	202015101052.4

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Country	Filed Date	Application Number	Grant Date	Patent No.
Germany (Federal Republic of)	2015-01-26	202015100342.0	2015-02-06	202015100342.0
Germany (Federal Republic of)	2002-06-13	02743286.3	2006-04-05	60210458.0
Germany (Federal Republic of)	2003-08-21	05113013.6	2008-10-08	60324035.6-08
Germany (Federal Republic of)	2003-08-21	03792442.0	2006-07-05	60306661.5
Germany (Federal Republic of)	2004-03-16	04720889.7	2007-10-10	602004009382
Germany (Federal Republic of)	2004-05-13	04732631.9	2006-08-02	602004001777
Germany (Federal Republic of)	2004-05-26	04734850.3	2017-07-05	1537647
Germany (Federal Republic of)	2004-10-29	04791433.8	2010-02-24	602004025707.9-08
Germany (Federal Republic of)	2004-08-20	04103992.6	2010-03-31	1513250
Germany (Federal Republic of)	2005-01-28	05708135.8	2012-09-19	602005036162.0
Germany (Federal Republic of)	2004-12-16	04106635.8	2009-07-22	602004022126.0-08
Germany (Federal Republic of)	2005-03-04	05717261.1	2008-07-23	602005008389.8-08
Germany (Federal Republic of)	2004-03-31	04724628.5	2012-10-31	602004039855.1
Germany (Federal Republic of)	2005-03-15	05717278.5	2011-11-16	1725774

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Country	Filed Date	Application Number	Grant Date	Patent No.
Germany (Federal Republic of)	2005-05-03	602005003058.1-08	2007-10-31	1605741
Germany (Federal Republic of)	2005-07-27	05106884.9	2008-07-16	1626175
Germany (Federal Republic of)	2005-07-27	05106886.4	2011-09-14	602005029986.6
Germany (Federal Republic of)	2004-10-28	04105346.3	2009-04-01	602004020349.1-08
Germany (Federal Republic of)	2005-06-02	05104798.3	2008-10-29	602005010675.8-08
Germany (Federal Republic of)	2006-01-03	06100023.8	2007-09-12	60 2006 000 099.5-08
Germany (Federal Republic of)	2005-08-19	05107612.3	2008-04-09	602005005990.3-08
Germany (Federal Republic of)	2005-10-19	05109738.4	2008-11-26	602005011301.0-08
Germany (Federal Republic of)	2006-11-20	06124370.5	2017-03-29	1816733
Germany (Federal Republic of)	2006-01-23	06100694.6	2010-08-04	602006015897.1-08
Germany (Federal Republic of)	2006-04-20	06112815.3	2016-11-09	1847714
Germany (Federal Republic of)	2006-06-15	06115523.0	2009-10-14	602006009783.2-08
Germany (Federal Republic of)	2007-09-14	07116396.8	2010-09-01	602007008806.2-08

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Germany (Federal Republic of)	2007-06-28	07111279.1	2014-04-16	
Germany (Federal Republic of)	2006-11-27	06124807.6	2009-08-05	602006008326.2-08
Germany (Federal Republic of)	2007-06-08	07109844.6	2010-08-11	602007008391.8-08
Germany (Federal Republic of)	2007-01-12	07100472.5	2010-07-28	602007008046.2-08
Germany (Federal Republic of)	2008-04-09	202008004911.3	2008-06-26	202008004911.3
Germany (Federal Republic of)	2007-04-27	07107115.3	2009-10-21	602007002891.7
Germany (Federal Republic of)	2008-04-18	202008005400.1	2008-07-03	202008005400.1
Germany (Federal Republic of)	2008-06-05	202008007516.5	2008-07-31	202008007516.5
Germany (Federal Republic of)	2008-11-27	08170078.3	2013-06-05	2085994
Germany (Federal Republic of)	2008-08-25	202008011309.1	2008-11-27	202008011309.1
Germany (Federal Republic of)	2008-10-01	202008013115.4	2008-12-18	202008013115.4
Germany (Federal Republic of)	2009-04-28	202009006280.5	2009-07-16	202009006280.5
Germany (Federal Republic of)	2008-10-22	202008014094.3	2009-03-12	202008014094.3

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Country	Filed Date	Application Number	Grant Date	Patent No.
Germany (Federal Republic of)	2008-03-14	08152726.9	2010-07-07	602008001716.8-08
Germany (Federal Republic of)	2009-04-03	202009004630.3	2009-08-06	202009004630.3
Germany (Federal Republic of)	2009-05-29	202009007682.2	2009-08-27	202009007682.2
Germany (Federal Republic of)	2008-12-19	08172322.3	2014-04-16	2200142
Germany (Federal Republic of)	2009-03-19	202009003845.9	2009-06-10	202009003845.9
Germany (Federal Republic of)	2008-10-17	08166883.2	2011-03-30	2178211
Germany (Federal Republic of)	2009-10-01	09748360.6	2013-03-20	2347643
Germany (Federal Republic of)	2008-12-09	08171028.7	2012-07-11	602008017078.0
Germany (Federal Republic of)	2008-09-23	08164883.4	2012-02-29	2166636
Germany (Federal Republic of)	2009-02-05	09152140.1	2011-10-26	2216794
Germany (Federal Republic of)	2009-02-05	09152138.5	2012-08-29	602009009194.8
Germany (Federal Republic of)	2008-11-10	08168700.6	2011-01-12	602008004568.4-08
Germany (Federal Republic of)	2010-03-15	202010000374.1	2010-07-01	202010000374.1
Germany (Federal Republic of)	2009-01-28	09151515.5	2011-11-30	2214303

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Germany (Federal Republic of)	2009-02-18	202009002289.7	2009-06-04	202009002289.7
Germany (Federal Republic of)	2009-07-03	09164537.4	2012-05-30	602009007289.7
Germany (Federal Republic of)	2009-05-15	09160361.3	2013-01-23	2256883
Germany (Federal Republic of)	2009-09-04	202009011935.1	2010-02-11	202009011935.1
Germany (Federal Republic of)	2009-09-04	202009011937.8	2010-02-11	202009011937.8
Germany (Federal Republic of)	2009-07-03	09164540.8	2012-08-29	602009009207.3
Germany (Federal Republic of)	2010-06-25	202010005716.7	2010-09-30	202010005716.7
Germany (Federal Republic of)	2010-06-21	202010005680.2	2010-10-07	202010005680.2
Germany (Federal Republic of)	2010-08-09	10172284.1	2012-05-23	602010001649.8
Germany (Federal Republic of)	2009-09-23	09171057.4	2014-04-23	2305554
Germany (Federal Republic of)	2009-10-16	202009013362.1	2009-12-31	202009013362.1
Germany (Federal Republic of)	2010-01-20	10151195.4	2017-09-20	2354744
Germany (Federal Republic of)	2011-04-28	202011000993.9	2014-02-27	202011000993.9
Germany (Federal Republic of)	2010-04-29	10161436.0	2012-09-12	602010002745.7



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Country	Filed Date	Application Number	Grant Date	Patent No.
Germany (Federal Republic of)	2011-02-18	202011000378.7	2011-05-12	202011000378.7
Germany (Federal Republic of)	2010-05-03	202010005357.9	2010-09-02	202010005357.9
Germany (Federal Republic of)	2009-12-22	09180402.1	2012-06-27	2339905
Germany (Federal Republic of)	2009-12-22	09180407.0	2012-06-27	602009007866.6
Germany (Federal Republic of)	2009-12-18	09179902.3	2012-09-26	602009009981.7
Germany (Federal Republic of)	2010-05-07	10162339.5	2012-09-19	602010002840.2
Germany (Federal Republic of)	2011-03-16	202011000593.3	2011-10-17	202011000593.3
Germany (Federal Republic of)	2011-02-28	202011000448.1	2011-06-09	202011000448.1
Germany (Federal Republic of)	2012-07-12	12736316.4	2017-06-14	2732539
India	2012-07-04	2702/CHE/2012		
India	2014-04-11	1923/CHE/2014		
India	2014-11-14	5753/CHE/2014		
India	2013-09-27	4400/CHE/2013		
India	2013-09-27	4397/CHE/2013		
India	2016-09-29	5196/CHE/2015		

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Country	Filed Date	Application Number	Grant Date	Patent No.
India	2004-10-29	1475/CHE/2006	2011-02-02	245808
India	2005-06-09	708/CHE/2005	2009-03-04	231251
Ireland (Republic of)	2005-07-27	05106884.9	2008-07-16	1626175
Italy	1999-09-17	T0990000268	2003-10-22	51946
Italy	2002-05-20	TO20020000109	2004-09-14	35249
Italy	2010-11-15	10191137.8	2013-06-26	2453248
Italy	2011-03-31	11160573.9	2013-10-02	2505848
Italy	2012-01-11	12150758.6	2014-03-19	2614870
Italy	2011-05-13	11166016.3	2015-02-18	2523215
Italy	2011-08-26	11178967.3	2013-11-27	2562877
Italy	2011-08-29	11179147.1	2014-12-10	2565465
Italy	2012-01-30	12153017.4	2014-10-29	502014000002376
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Italy	2002-06-13	02743286.3	2006-04-05	1402622
Italy	2003-06-11	MI2003A001175	2008-10-30	1348426
Italy	2004-03-16	04720889.7	2007-10-10	1523841
Italy	2004-05-13	04732631.9	2006-08-02	1616379
Italy	2004-05-26	04734850.3	2017-07-05	502017000090655

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Country	Filed Date	Application Number	Grant Date	Patent No.
Italy	2004-10-29	04791433.8	2010-02-24	502010901817238
Italy	2004-08-20	04103992.6	2010-03-31	1513250
Italy	2005-01-28	05708135.8	2012-09-19	502012902106637
Italy	2004-12-16	04106635.8	2009-07-22	1553692
Italy	2005-03-04	05717261.1	2008-07-23	502008901669464
Italy	2004-03-31	04724528.5	2012-10-31	1509990
Italy	2005-03-15	05717278.5	2011-11-16	502011902000080
Italy	2005-05-03	05103688.7	2007-10-30	1605741
Italy	2005-07-27	05106684.9	2008-07-16	1626175
Italy	2005-07-27	05106686.4	2011-09-14	1626492
Italy	2004-10-28	04105346.3	2009-04-01	1653601
Italy	2005-06-02	05104798.3	2008-10-29	1729141
Italy	2006-01-03	06100023.8	2007-09-12	1684565
Italy	2005-10-19	05109738.4	2008-11-26	1777530
Italy	2006-11-20	06124370.5	2017-03-29	502017000044904
Italy	2006-01-23	06100694.6	2010-08-04	1811641
Italy	2006-04-20	06112815.3	2016-11-09	502016000119207

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Country	Filed Date	Application Number	Grant Date	Patent No.
Italy	2006-06-15	06115523.0	2009-10-14	1868288
Italy	2007-09-14	07116396.8	2010-09-01	1903848
Italy	2007-06-26	07111279.1	2014-04-16	
Italy	2006-11-27	06124807.6	2009-08-05	1926212
Italy	2007-06-08	07109844.6	2010-03-11	2001029
Italy	2007-01-12	07100472.5	2010-07-28	1944860
Italy	2007-04-27	07107115.3	2009-10-21	1966317
Italy	2008-11-27	08170078.3	2013-06-05	2065994
Italy	2008-03-14	08152726.9	2010-07-07	2104117
Italy	2008-12-19	08172322.3	2014-04-16	2200142
Italy	2008-10-17	08166883.2	2011-03-30	2178211
Italy	2009-10-01	09748360.6	2013-03-20	2347643
Italy	2008-12-09	08171028.7	2012-07-11	2196678
Italy	2008-09-23	08164883.4	2012-02-29	2166635
Italy	2009-02-05	09152140.1	2011-10-26	2216794
Italy	2009-02-05	09152138.5	2012-08-29	2216905
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Italy	2009-01-28	09151515.5	2011-11-30	2214303
Italy	2009-07-03	09164537.4	2012-05-30	2270522
Italy	2009-06-15	09160361.3	2013-01-23	2256883
Italy	2009-07-03	09164540.8	2012-08-29	2270523

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Country	Filed Date	Application Number	Grant Date	Patent No.
Italy	2010-08-09	10172284.1	2012-05-23	2306020
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Italy	2010-01-20	10151195.4	2017-09-20	502017000114240
Italy	2010-04-29	10161436.0	2012-09-12	2383779
Italy	2009-12-22	09180402.1	2012-06-27	2339905
Italy	2009-12-22	09180407.0	2012-06-27	2339906
Italy	2009-12-18	09179902.3	2012-09-26	2337211
Italy	2010-05-07	10162339.5	2012-09-19	2385011
Italy	2012-07-12	12738316.4	2017-06-14	2732539
Japan	2009-12-18	2009-287147	2013-11-15	5412264
Japan	2009-11-10	2009-256763	2013-01-18	5179457
Japan	2010-09-22	2010-211634	2013-02-01	5189630
Japan	2011-05-09	2011-104253	2016-04-01	5908217
Korea, Republic of (KR)	2009-12-15	10-2009-0124333	2011-12-22	10-1100075
Korea, Republic of (KR)	2009-11-10	108136/2009	2012-02-02	10-1114523
Korea, Republic of (KR)	2010-08-18	10-2010-0079793	2013-11-05	10-1327823
Korea, Republic of (KR)	2011-05-04	10-2011-0042656	2017-09-04	10-1776671

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Country	Filed Date	Application Number	Grant Date	Patent No.
Malaysia	2012-02-03	PI2012000487	2017-09-15	163404-A
Malaysia	2011-11-10	PI2011005420	2017-07-31	MY-162913-A
Malaysia	2011-09-14	PI2011004345	2017-11-15	MY-163917
Mexico	2012-02-22	MX/A/2012/002257	2015-04-08	329276
Mexico	2011-11-15	MX/A/2011/012197	2014-05-05	319965
Mexico	2011-09-12	MX/a/2011/009542	2014-07-09	321776
Norway	2008-12-19	08172322.3	2014-04-16	2200142
Norway	2008-11-10	08168700.6	2011-01-12	2196429
Norway	2009-09-23	09171057.4	2014-04-23	2305554
Norway	2010-05-07	10162339.5	2012-09-19	2385011
Portugal	2005-07-27	05106884.9	2008-07-16	1626175
Singapore	2012-02-03	10201405005R	2017-10-11	10201405005R
Singapore	2011-11-10	201108280-7	2014-09-11	181234
Singapore	2011-09-09	201106496-1	2016-05-23	179369
Spain	2005-07-27	05106884.9	2008-07-16	1626175

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Country	Filed Date	Application Number	Grant Date	Patent No.
Sweden	2005-03-04	05717261.1	2008-07-23	1721131
United Kingdom	2002-05-20	3003822	2002-07-02	3003822
United Kingdom	2010-11-15	10191137.8	2013-06-26	2453248
United Kingdom	2011-03-31	11160573.9	2013-10-02	2505848
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United Kingdom	2011-08-26	11178967.3	2013-11-27	2562877
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United Kingdom	2002-06-13	02743286.3	2006-04-05	1402622
United Kingdom	2003-06-12	0313594.4	2005-08-31	2394129
United Kingdom	2004-03-16	04720889.7	2007-10-10	1523841
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United Kingdom	2004-05-26	04734850.3	2017-07-05	1537647
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United Kingdom	2005-03-04	05717261.1	2008-07-23	1721131
United Kingdom	2004-03-31	04724628.5	2012-10-31	1509990
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United Kingdom	2005-07-27	05106686.4	2011-09-14	1628492
United Kingdom	2004-10-28	04105346.3	2009-04-01	1653601
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Country	Filed Date	Application Number	Grant Date	Patent No.
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United Kingdom	2008-03-14	08152726.9	2010-07-07	2104117
United Kingdom	2008-12-19	08172322.3	2014-04-16	2200142
United Kingdom	2008-10-17	08166883.2	2011-03-30	2178211
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United States of America	2002-05-20	29/160836	2005-04-12	503931
United States of America	2003-09-15	29/189,964	2005-12-13	D512,696
United States of America	2003-09-15	29/189,965	2005-11-01	D511,150
United States of America	2003-09-15	29/189,967	2006-05-23	D521,466 S
United States of America	2003-09-15	29/189,966	2005-11-29	D512,026 S
United States of America	2003-12-31	29/196,437	2005-10-04	D510,319

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Country	Filed Date	Application Number	Grant Date	Patent No.
United States of America	2003-12-31	29/196,459	2005-10-04	D510,320
United States of America	2003-12-31	29/196,436	2005-11-01	D511,137
United States of America	2005-09-08	29/237,834	2007-05-01	D541,744 S
United States of America	2005-09-08	29/237,833	2007-05-01	D541,743 S
United States of America	2006-01-23	29/252,343	2007-05-01	D541,745 S
United States of America	2006-12-21	29/275,364	2007-08-07	US D548,183 S
United States of America	2006-12-21	29/275,363	2007-08-07	US D548,182 S
United States of America	2008-01-02	29/290,669	2008-07-15	D573,090
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