

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6105570

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
GOLDPEAK INNOVATIONS INC		05/07/2020
RECEIVING PARTY DATA		
Name:	PANTECH CORPORATION	
Street Address:	8 YANGJAECHONRO-21GIL, SUITE 402, SEOCHO-GU,	
City:	SEOUL	
State/Country:	KOREA, REPUBLIC OF	
Postal Code:	06748	
PROPERTY NUMBERS Total: 234		
Property Type	Number	
Patent Number:	10014988	
Patent Number:	9548839	
Patent Number:	9048991	
Patent Number:	8631297	
Patent Number:	8631298	
Patent Number:	8681599	
Patent Number:	7894330	
Patent Number:	9750054	
Patent Number:	9288824	
Patent Number:	10057925	
Patent Number:	8611297	
Patent Number:	8102804	
Patent Number:	8380227	
Patent Number:	8583147	
Patent Number:	9357486	
Patent Number:	8606303	
Patent Number:	7505776	
Patent Number:	7505775	
Patent Number:	7853852	
Patent Number:	7725796	

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PATENT
REEL: 052657 FRAME: 0066ONEPLUS TECH. V. PANTECH CORP.
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Property Type	Number
Patent Number:	9838194
Patent Number:	9270365
Patent Number:	8873519
Patent Number:	9713095
Patent Number:	10045304
Patent Number:	9313743
Patent Number:	10609650
Patent Number:	9680590
Patent Number:	9419739
Patent Number:	8649346
Patent Number:	9860046
Patent Number:	9485072
Patent Number:	9237566
Patent Number:	9008046
Patent Number:	8588185
Patent Number:	8780860
Patent Number:	9854545
Patent Number:	9054835
Patent Number:	10299251
Patent Number:	9392582
Patent Number:	9131482
Patent Number:	9265034
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Patent Number:	9787514
Patent Number:	10237104
Patent Number:	9025485
Patent Number:	9742542
Patent Number:	9369251
Patent Number:	9088396
Patent Number:	8897182
Patent Number:	9136924
Patent Number:	9948440
Patent Number:	9344245
Patent Number:	8787216
Patent Number:	9893866
Patent Number:	9380581
Patent Number:	8837452
Patent Number:	8576822

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Property Type	Number
Patent Number:	10567140
Patent Number:	10218485
Patent Number:	8811518
Patent Number:	9825686
Patent Number:	9319252
Patent Number:	10153821
Patent Number:	10057940
Patent Number:	9474025
Patent Number:	9088992
Patent Number:	9730265
Patent Number:	9374213
Patent Number:	8917619
Patent Number:	9955376
Patent Number:	9516538
Patent Number:	9191833
Patent Number:	9124688
Patent Number:	8675844
Patent Number:	7660404
Patent Number:	6809641
Patent Number:	8933955
Patent Number:	8706168
Patent Number:	8554185
Patent Number:	8311519
Patent Number:	7260419
Patent Number:	RE44620
Patent Number:	RE43789
Patent Number:	RE42996
Patent Number:	7292561
Patent Number:	9661113
Patent Number:	8433379
Patent Number:	7693558
Patent Number:	8200899
Patent Number:	7991958
Patent Number:	7567530
Patent Number:	7136671
Patent Number:	9729699
Patent Number:	9178982
Patent Number:	8699987

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Property Type	Number
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Patent Number:	7643815
Patent Number:	8060114
Patent Number:	7912482
Patent Number:	7668553
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Patent Number:	8054846
Patent Number:	7693163
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Patent Number:	6801271
Patent Number:	6925313
Patent Number:	8270999
Patent Number:	7660592
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Patent Number:	7668569
Patent Number:	7412262
Patent Number:	7283839
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Patent Number:	7103387
Patent Number:	9839000
Patent Number:	9319507
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Patent Number:	8532626
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Patent Number:	7420566
Patent Number:	7475332
Patent Number:	8588755
Patent Number:	8331920

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Property Type	Number
Patent Number:	7636845
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Patent Number:	10582460
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Patent Number:	9794029
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Patent Number:	9191932
Patent Number:	9030973
Patent Number:	10004062
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Patent Number:	9930499
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Patent Number:	10225697
Patent Number:	8332706

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Patent Number:	8279744
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Patent Number:	8606284
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Patent Number:	8433350
Patent Number:	7890130
Patent Number:	9167534
Patent Number:	8145252
Patent Number:	7577115
Patent Number:	7167716
Patent Number:	8559480
Patent Number:	8345867
Patent Number:	9009207
Patent Number:	8675510
Patent Number:	7853289
Patent Number:	9398499
Patent Number:	8929223
Patent Number:	8301151
Patent Number:	RE43930
Patent Number:	7257410
Patent Number:	RE43059
Patent Number:	7366222
Patent Number:	7904025
Patent Number:	8098624
Patent Number:	7801074
Patent Number:	7333828
Patent Number:	7123912
Application Number:	15997919
Application Number:	16394702
Application Number:	16392323
Application Number:	15820980
Application Number:	16418708
Application Number:	16272473
Application Number:	16387174
Application Number:	15911518
Application Number:	16203319
Application Number:	16275039
Application Number:	16288278

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Property Type	Number
Application Number:	14061316
Application Number:	16287787
Application Number:	15801433
Application Number:	16227369
Application Number:	15705131
Application Number:	16685738
Application Number:	15017133
Application Number:	16405803
Application Number:	16290914
Application Number:	12958749
Application Number:	16452244
Application Number:	16826013
Application Number:	16733106
Application Number:	16819625
Application Number:	16813676
Application Number:	16823170
Application Number:	16806830
Application Number:	16730711
Application Number:	16711269
Application Number:	16806665
Application Number:	16826054
Application Number:	16037067
Application Number:	16184560
Application Number:	16694830

CORRESPONDENCE DATA

Fax Number: (703)643-9789

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ATTORNEY DOCKET NUMBER:	PA01GOLDPEAKTOPANTECHCORP
NAME OF SUBMITTER:	YEASUN YOON
SIGNATURE:	/yoon/
DATE SIGNED:	05/13/2020
This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 17

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CONFIRMATORY ASSIGNMENT OF PATENT RIGHTS

This CONFIRMATORY ASSIGNMENT OF PATENT RIGHTS (this "Assignment") is made this ____ day of April 2020, by **GoldPeak Innovations Inc.**, a Korean company ("Assignor"), in favor of **Pantech Corporation.**, a Korean company ("Assignee").

WHEREAS, Assignor and Assignee are party to that certain Patent Sale and Purchase Agreement of even date herewith (as in effect from time to time, the "**Patent Sale and Purchase Agreement**"); capitalized terms used but not otherwise defined in this Assignment shall have the respective meaning assigned thereto in the Patent Sale and Purchase Agreement; and

WHEREAS, pursuant to the Patent Sale and Purchase Agreement, Assignor has agreed to sell, convey, transfer, assign and deliver to Assignee all right, title and interest, including, without limitation, Patent Rights, in and to the patents, provisional patent applications, and patent applications listed on listed on Schedule A hereto (collectively, the "**Patents**").

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor hereby sells, conveys, transfers, and assigns to Assignee, its successors, legal representatives and assigns all right, title and interest in the United States and throughout the world in and to:

The Patents and any and all letters patent that are or may be granted thereon, and any legal equivalent and counterpart thereof that may be granted in any country or countries foreign to the United States, in each case including without limitation any extensions, substitutes, continuations, continuations-in-part, divisions, reissues, reexaminations, and renewals thereof, or other equivalents thereof, and further, all rights and privileges pertaining to the Patents and any and all letters patent that are or may be granted thereon, and any legal equivalent thereof that may be granted in any country or countries foreign to the United States as well as all inventions, invention disclosures, and discoveries described in any of the foregoing and including, without limitation, the right, if any, to petition, sue or otherwise seek and recover damages, profits and any other remedy (monetary, injunctive, declaratory or other relief or remedy of any kind) in the United States and anywhere throughout the world for any past, present and future infringement thereof, conversion or misappropriation of, or other injury, offense, violation, breach of duty or wrong relating to, any of the Patents, or any license, agreement, contract or other matter relating thereto.

Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States of America and the appropriate officers of all other jurisdictions in which the Patents are or may be registered or in which applications included among the Patents are pending, to record the title of Assignee, its successors, legal representatives and assigns, as owner of all right, title and interest in and to the Patents, and to issue to Assignee, its successors, legal representatives and assigns, all letters patent and any legal equivalent thereof that may be granted in any country or countries foreign to the United States and recordings of patent rights resulting from any application included among the Patents, according to this instrument.

Except to the extent that federal law preempts state law with respect to the matters covered hereby, this Assignment shall be governed by and construed in accordance with the laws of the State of Delaware, without giving effect to any of the principles of conflicts of laws thereof that would result in the application of the laws of another jurisdiction to this Assignment.

This Assignment will inure to the benefit of Assignee, its successors, assigns, and other legal representatives and will be binding upon Assignor, its successors, assigns, and other legal representatives.

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Assignor has the full power and authority, and has obtained all Third Party consents, approvals and/or other authorizations required to enter into this Assignment and to carry out its obligations hereunder.

If Assignee is unable for any reason to secure Assignor's or its affiliates or their respective successors' or assigns' signature to any document it is entitled to under this Assignment, Assignor and its affiliates hereby irrevocably designate and appoint Assignee, and Assignee's duly authorized officers, agents and representatives, as its agents and attorneys-in-fact, coupled with an interest, with full power of substitution to act for and on the behalf and instead of Assignor, to execute and file any such document or documents and to do all other lawfully permitted acts to further the purposes of this Assignment with the same legal force and effect as if executed by Assignor.

IN WITNESS WHEREOF, Assignor has caused this Assignment to be executed by its duly authorized officer, as of the date first written above.

ASSIGNOR:

GoldPeak Innovations Inc.

By: Saekyung Park

Name: Saekyung Park

Title: CEO

Schedule A

Family	Country	Application #	Application Date	Issued #	Issued Date
1	U.S.A.	2017-406403	1/13/2017	10014988	7/3/2018
	U.S.A.	15/997,919	6/5/2018	Pending	
	U.S.A.	2015-726014	5/29/2015	9548839	1/17/2017
	U.S.A.	2014-184345	2/19/2014	9048991	6/2/2015
	U.S.A.	2013-750669	1/25/2013	8631297	1/14/2014
	U.S.A.	2012-750953	1/25/2013	8631298	1/14/2014
	U.S.A.	2011-012702	1/24/2011	8681599	3/25/2014
	U.S.A.	2009-388243	2/18/2009	7874330	2/22/2011
	TAIWAN	98105169	2/18/2009	1422201	1/1/2014
	SWEDEN	13170420.7	6/4/2013	2637348	6/24/2015
	NETHERLAND	13170420.7	2/18/2009	2637348	6/24/2015
	JAPAN	2016-215172	11/2/2016	6401224	9/14/2018
	JAPAN	2015-020714	2/4/2015	6038974	11/11/2016
	JAPAN	2013-221358	10/24/2013	5694479	2/13/2015
	JAPAN	2012-037585	2/23/2012	5400186	11/1/2013
	JAPAN	2009-554464	2/13/2009	4982653	5/11/2012
	ITALY	09 153 111.1	2/18/2009	2093924	8/14/2013
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	FINLAND	13170420.7	6/4/2013	2637348	6/24/2015
	E.P.O.	15166204.6	5/4/2015	2922233	11/22/2017
	GERMANY	15166204.6	11/13/2017	2922233	11/22/2017
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	GERMANY	13170420.7	2/18/2009	2637348	6/24/2015
	CHINA	201310194226.5	5/23/2013	103354491	8/24/2016
	CHINA	200980000075.7	2/13/2009	101682489	7/24/2013
	CANADA	2715941	2/13/2009	2715941	4/11/2017
	AUSTRALIA	2009332929	2/13/2009	2009332929	11/14/2013
	KR	1020080124084	12/8/2008	925439	10/30/2009
2	U.S.A.	2016-069340	3/14/2016	9750054	8/29/2017

	U.S.A.	2013-960448	8/6/2013	9288824	3/15/2016
	U.S.A.	15/690,042	8/29/2017	10057925	8/21/2018
	U.S.A.	13/340447	12/29/2011	8611297	12/17/2013
	U.S.A.	2008-347352	12/31/2008	8102804	1/24/2012
	E.P.O	08866014	12/31/2008	2227923	7/29/2015
	SWEDEN	08866014	7/1/2010	2227923	7/29/2015
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	CHINA	201410265062.5	6/13/2014	103997794	1/15/2019
	CHINA	200880127735	8/31/2010	101960906	4/20/2016
	KR	1020150011228	1/23/2015	1540418	7/23/2015
	KR	1020080047656	5/22/2008	1519345	5/6/2015
3	U.S.A.	12/398084	3/4/2009	8380227	2/19/2013
	U.S.A.	12/398072	3/4/2009	8583147	11/12/2013
	U.S.A.	2013-091916	11/27/2013	9357486	5/31/2016
	U.S.A.	12/371526	2/13/2009	8606303	12/10/2013
	U.S.A.	11/691410	3/26/2007	7505776	3/17/2009
	U.S.A.	11/165744	6/24/2005	7505775	3/17/2009
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	NETHERLAND	05756764.6	1/12/2007	1767036	10/31/2012
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	MONACO	05756764.6	1/12/2007	1767036	10/31/2012
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	JAPAN	2007-517968	12/20/2006	4654241	12/24/2010
	ITALY	05756764.6	1/12/2007	1767036	10/31/2012
	INDIA	0713/DELNP/2007	1/25/2007	296968	5/22/2018
	ISRAEL	180227	12/21/2006	180227	12/28/2011
	ICELAND	05756764.6	6/25/2005	1767036	10/31/2012
	IRELAND	05756764.6	1/12/2007	1767036	10/31/2012
	HUNGARY	05756764.6	1/12/2007	1767036	10/31/2012
	GREECE	05756764.6	1/12/2007	1767036	10/31/2012

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	GERMANY	12189742.5	8/28/2018	2552164	9/5/2018
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	ESTONIA	05756764.6	1/12/2007	1767036	10/31/2012
	DENMARK	05756764.6	1/12/2007	1767036	10/31/2012
	GERMANY	05756764.6	1/12/2007	1767036	10/31/2012
	CZ	05756764.6	1/12/2007	1767036	10/31/2012
	CYPRUS	05756764.6	1/12/2007	CY20131100062 - EP1767036	10/31/2012
	CHINA	200910224551.5	11/17/2009	ZL200910224551.5	12/7/2016
	CHINA	200580020940.6	12/25/2006	ZL 2005 8 0020940.6	3/24/2010
	CANADA	2569425	12/1/2006	2569425	6/3/2014
	BULGARIA	05756764.6	1/12/2007	1767036	10/31/2012
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	AUSTRALIA	2005257642	11/24/2006	2005257642	11/12/2009
	AUSTRIA	05756764.6	1/12/2007	1767036	10/31/2012
	KR	1020050019211	3/8/2005	875419	12/16/2008
	KR	1020090013393	2/18/2009	935294	12/24/2009
	KR	1020040077649	9/25/2004	908260	7/10/2009
4	U.S.A.	12/684847	1/8/2010	7853852	12/14/2010
	U.S.A.	11/320374	12/27/2005	7725796	5/25/2010
	TAIWAN	94146828	12/27/2005	1416897	11/21/2013
	MEXICO	MX/a/2007/007796	6/25/2007	270303	9/23/2009
	JAPAN	2013-236045	11/14/2013	5619262	9/26/2014
	JAPAN	2012-142491	6/25/2012	5554375	6/6/2014
	JAPAN	2007-548094	6/26/2007	5055132	8/3/2012
	ISRAEL	183915	6/14/2007	183915	9/1/2011
	E.P.O	05 818 969.7	7/2/2007	1832024	6/6/2018
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	CHINA	200580044699.0	6/25/2007	ZL200580044699.0	10/9/2012

	AUSTRALIA	2005326877	6/13/2007	2005326877	2/4/2010
	KR	1020040112929	12/27/2004	1079095	10/27/2011
	KR	1020040112926	12/27/2004	1080964	11/1/2011
5	U.S.A.	2016-014792	2/3/2016	9838194	12/5/2017
	U.S.A.	16/394,702	4/25/2019	Pending	
	U.S.A.	2014-513449	10/14/2014	9270365	2/23/2016
	U.S.A.	2012-715278	12/14/2012	8873519	10/28/2014
	JAPAN	2014-547111	6/12/2015	6212048	9/22/2017
	E.P.O	12857526.3	7/15/2014	2792093	7/11/2018
	GERMANY	12857526.3	5/30/2018	2792093	7/11/2018
	FRANCE	12857526.3	5/30/2018	2792093	7/11/2018
	U.K.	12857526.3	5/30/2018	2792093	7/11/2018
	CHINA	2012-80067029	12/14/2012	ZL201280067029.0	9/1/2017
	KR	1020200034567		Pending	
6	U.S.A.	2016-077466	3/22/2016	9713095	7/18/2017
	U.S.A.	15/653,355	7/18/2017	10045304	08/07/2018
	U.S.A.	2014-357557	5/9/2014	9313743	4/12/2016
	U.S.A.	16/293,321	5/5/2019	10609650	3/31/2020
	JAPAN	2014-540937	6/19/2014	5763845	6/19/2015
	E.P.O	12850075	6/4/2014	2782405	8/22/2018
	GERMANY	12850075	6/4/2014	2782405	8/22/2018
	FRANCE	12850075	6/4/2014	2782405	8/22/2018
	U.K.	12850075	6/4/2014	2782405	8/22/2018
	CHINA	201280056210.1	5/15/2014	ZL201280056210.1	5/15/2018
	KR	1020110119154	11/15/2011	10-1867314	6/7/2018
8	U.S.A.	2016-222068	7/28/2016	9680590	6/13/2017
	U.S.A.	2014-147295	1/3/2014	9419739	8/16/2016
	U.S.A.	2011-332089	12/20/2011	8649346	2/11/2014
	JAPAN	2014-134625	6/30/2014	6025783	10/21/2016
	JAPAN	2013-546010	6/14/2013	5575993	7/11/2014
	E.P.O	11850274.9	7/1/2013	Pending	
	CHINA	201180062059	6/21/2013	103270710	3/9/2016
9	KR	1020100131864	12/21/2010	10-1867311	6/7/2018
	U.S.A.	2016-335679	10/27/2016	9860046	1/2/2018
	U.S.A.	16/392,323	4/23/2019	Pending	
	U.S.A.	2016-992186	1/11/2016	9485072	11/1/2016
	U.S.A.	13/877,827	4/4/2013	9237566	1/12/2016
	JAPAN	2013-533775	5/31/2013	5766294	6/26/2015
	E.P.O	11832776.6	4/4/2013	Pending	
	CHINA	201610452850.4	6/21/2016	106059719	6/14/2019

10	CHINA	201180049399	4/12/2013	103181109	8/3/2016
	KR	1020100100988	10/15/2010	10-1771550	8/21/2017
	U.S.A.	14/056,474	10/17/2013	9008046	4/14/2015
	U.S.A.	2011-181456	7/12/2011	8588185	7/19/2013
	E.P.O	11807024.2	12/11/2012	Pending	
11	KR	1020100068157	7/14/2010	10-1699023	1/17/2017
	U.S.A.	2011-098056	4/29/2011	8780860	7/15/2014
12	U.S.A.	2015-733068	6/8/2015	9854545	12/26/2017
	U.S.A.	15/820,980	11/22/2017	Pending	
	U.S.A.	2012-578531	8/10/2012	9054835	6/9/2015
	JAPAN	2015-154385	8/4/2015	6175466	7/14/2017
	E.P.O	11742487.9	9/5/2012	2536227	5/8/2019
	GERMANY	11742487.9	9/5/2012	2536227	5/8/2019
	U.K.	11742487.9	9/5/2012	2536227	5/8/2019
	FRANCE	11742487.9	9/5/2012	2536227	5/8/2019
	SWITZERLAND	11742487.9	9/5/2012	2536227	5/8/2019
	IRELAND	11742487.9	9/5/2012	2536227	5/8/2019
	Luxembourg	11742487.9	9/5/2012	2536227	5/8/2019
	Monaco	11742487.9	9/5/2012	2536227	5/8/2019
	CHINA	201610908740.4	10/18/2016	Pending	
	CHINA	201180014458.7	9/18/2012	ZL201180014458.7	11/16/2016
	KR	1020110008683	1/28/2011	10-1803015	11/23/2017
14	U.S.A.	15/206,508	7/11/2016	10299251	5/21/2019
	U.S.A.	16/418,708	5/28/2019	Pending	
	U.S.A.	13/875,808	5/2/2013	9392582	7/12/2016
	U.S.A.	13/875,869	5/2/2013	9131482	9/8/2015
	U.S.A.	2013-965837	8/13/2013	9265034	2/16/2016
	U.S.A.	2010-916203	10/29/2010	8538411	9/17/2013
	JAPAN	2014-080506	4/9/2014	5788051	8/7/2015
	JAPAN	2012-536694	4/23/2012	5525055	4/18/2014
	E.P.O	10827139.6	5/23/2012	Pending	
	KR	1020170127789	9/29/2017	10-1828917	2/7/2018
	KR	1020100088151	9/8/2010	10-1785997	10/10/2017
15	U.S.A.	2015-703360	5/4/2015	9787514	10/10/2017
	U.S.A.	16/272,473	2/11/2019	Pending	
	U.S.A.	15/729,604	10/10/2017	10237104	3/19/2019
	U.S.A.	2013-891522	5/10/2013	9025485	5/5/2015
	JAPAN	2015-511380	11/10/2014	6200944	9/1/2017
	E.P.O	13787400.4	12/3/2014	2850757	10/17/2017
	GERMANY	13787400.4	12/3/2014	2850757	10/17/2017

	FRANCE	13787400.4	12/3/2014	2850757	10/17/2017
	U.K.	13787400.4	12/3/2014	2850757	10/17/2017
	CHINA	201380036116.4	1/6/2015	ZL201380036116.4	11/3/2017
	KR	1020120050406	5/11/2012	Pending	
16	U.S.A.	2016-180153	6/13/2016	9742542	8/22/2017
	U.S.A.	2015-801116	7/16/2015	9369251	6/14/2016
	U.S.A.	16/387.174	4/17/2019	Pending	
	U.S.A.	2014-547112	11/18/2014	9088396	7/21/2015
	U.S.A.	2011-816182	2/8/2013	8897182	11/25/2014
	JAPAN	2016-115490	6/9/2016	6185116	8/4/2017
	JAPAN	2015-053011	3/17/2015	5952449	6/17/2016
	JAPAN	2013-524046	2/8/2013	5718464	3/27/2015
	GERMANY	11816634.7	3/11/2013	2605433	2/27/2019
	FRANCE	11816634.7	3/11/2013	2605433	2/27/2019
	SWITZERLAND	11816634.7	3/11/2013	2605433	2/27/2019
	Luxembourg	11816634.7	3/11/2013	2605433	2/27/2019
	MONACO	11816634.7	3/11/2013	2605433	2/27/2019
	IRELAND	11816634.7	3/11/2013	2605433	2/27/2019
	Belgium	11816634.7	3/11/2013	2605433	2/27/2019
	U.K.	11816634.7	3/11/2013	2605433	2/27/2019
	E.P.O	11816634.7	3/11/2013	2605433	2/27/2019
	CHINA	201610412657.8	8/11/2011	ZL201610412657.8	9/24/2019
	CHINA	201180049114.X	4/11/2013	103155456	6/29/2016
	KR	1020100098006	10/7/2010	1719542	3/20/2017
	KR	1020170033713	3/17/2017	1810962	12/24/2017
	KR	1020100098005	10/7/2010	1790502	
17	U.S.A.	2012-807706	12/28/2012	9136924	9/15/2015
	JAPAN	2013-518260	1/4/2013	6293482	2/23/2018
	E.P.O	11803762	2/1/2013	2592763	5/23/2018
	GERMANY	11803762	2/1/2013	2592763	5/23/2018
	FRANCE	11803762	2/1/2013	2592763	5/23/2018
	U.K.	11803762	2/1/2013	2592763	5/23/2018
	CHINA	201180037814.7	1/31/2013	ZL201180037814.7	11/17/2017
	KR	1020160171540	12/15/2016	10-1771549	8/21/2017
18	U.S.A.	2016-151296	5/10/2016	9948440	4/17/2018
	U.S.A.	2014-299679	6/9/2014	9344245	5/17/2016
	U.S.A.	15/911.518	3/5/2018	Pending	
	U.S.A.	2011-149225	5/31/2011	8787216	7/22/2014
	JAPAN	2013-513109	11/27/2012	5931056	5/13/2016
	E.P.O	11790009	12/5/2012	Pending	

19	CHINA	201610951696.5	11/2/2016	Pending	
	CHINA	201180037855.6	1/31/2013	ZL201180037855.6	11/30/2016
	KR	1020100055073	6/10/2010	10-1790505	10/20/2017
	U.S.A.	2016-192233	6/24/2016	9893866	2/13/2018
	U.S.A.	2014-464041	8/20/2014	9380581	6/28/2016
	U.S.A.	2013-043005	10/1/2013	8837452	9/16/2014
	U.S.A.	2011-008685	1/18/2011	8576822	11/5/2013
	JAPAN	2012-548900	7/11/2012	5855016	12/18/2015
	E.P.O	11733132	8/17/2012	Pending	
	U.S.A.	16/285,957	2/26/2019	10567140	2/18/2020
20	U.S.A.	15/858,921	12/29/2017	10218485	2/26/2019
	CHINA	201180014290.X	9/17/2012	102804625	11/13/2018
21	KR	1020100004219	1/18/2010	1740221	
	U.S.A.	2009-505707	5/2/2012	8811518	8/19/2014
22	KR	1020127011219	4/30/2012	1627393	5/30/2016
	U.S.A.	2016-131725	4/18/2016	9825686	11/21/2017
	U.S.A.	2009-500288	4/4/2012	9319252	4/19/2016
	U.S.A.	16/203,319	11/28/2018	Pending	
	U.S.A.	15/814,605	11/16/2017	10153821	12/11/2018
23	KR	1020127008173	3/29/2012	1621376	5/10/2016
	U.S.A.	2015-279139	9/28/2016	10057940	8/21/2018
	U.S.A.	2015-801280	7/16/2015	9474025	10/18/2016
	U.S.A.	2013-847319	3/19/2013	9088992	7/21/2015
24	KR	1020120027938	3/19/2012	10-1868865	6/12/2018
	U.S.A.	2016-183158	6/15/2016	9730265	8/8/2017
	U.S.A.	16/275,039	2/13/2019	Pending	
	U.S.A.	2014-560838	12/4/2014	9374213	6/21/2016
	U.S.A.	2012-651034	10/12/2012	8917619	12/23/2014
25	KR	1020110110798	10/27/2011	10-1841693	3/19/2018
	U.S.A.	2016-341296	11/2/2016	9955376	4/24/2018
	U.S.A.	16/288,278	2/28/2019	Pending	
	U.S.A.	2015-937348	11/10/2015	9516538	12/6/2016
	U.S.A.	2013-984476	8/8/2013	9191833	11/17/2015
	E.P.O	12744488.3	8/9/2013	Notice of Allowance at 1/7/2020 (Issue fee due 5/7/2020)	
	CHINA	201610397886.7	6/7/2016	106060866B	1/7/2020
	CHINA	201280014327	9/22/2013	103444100	6/29/2016
26	KR	1020170130604	10/11/2017	1860863	5/17/2018
	U.S.A.	2014-191178	2/26/2014	9124688	9/1/2015
27	U.S.A.	2009-553328	9/3/2009	8675844	3/18/2014

	U.S.A.	2003-730853	12/8/2003	7660404	2/9/2010
	HONG KONG	5101471	2/22/2005	1069062	2/12/2010
	E.P.O	06019434.7	12/5/2003	1727386	3/4/2009
	U.K.	06019434.7	9/18/2006	1727386	3/4/2009
	U.K.	03257661.3	12/5/2003	1427242	11/15/2006
	FRANCE	06019434.7	9/18/2006	1727386	3/4/2009
	E.P.O	03257661.3	12/5/2003	1427242	11/15/2006
	FRANCE	03257661.3	12/5/2003	1427242	11/15/2006
	GERMANY	06019434.7	9/18/2006	1727386	3/4/2009
	GERMANY	03257661.3	12/5/2003	1427242	11/15/2006
	CHINA	200310124920.6	12/7/2003	100558200	11/4/2009
28	KR	1020020077576	12/7/2002	500670	7/1/2005
	U.S.A.	2002-194038	7/11/2002	6809641	10/26/2004
	JAPAN	2002-196495	7/4/2002	3684373	6/10/2005
	CHINA	02140676.6	7/12/2002	101271871	8/23/2006
29	KR	1020010041909	7/12/2001	420395	2/16/2004
	U.S.A.	14/225,729	3/26/2014	8933955	12/23/2014
	U.S.A.	2013-035625	9/24/2013	8706168	4/22/2014
	U.S.A.	2012-654043	10/17/2012	8554185	10/8/2013
	U.S.A.	2009-412079	3/26/2009	8311519	11/13/2012
	JAPAN	2009-133842	6/4/2009	4764496	6/17/2011
30	KR	1020080052642	6/4/2008	1481408	1/6/2015
	U.S.A.	2004-007603	12/7/2004	7260419	8/21/2007
31	KR	1020030088563	12/8/2003	603437	7/13/2006
	U.S.A.	14/061316	10/23/2013	Pending	
	U.S.A.	2012-649539	10/11/2012	RE44620	7/9/2013
	U.S.A.	2011-300799	11/21/2011	RE43789	11/6/2012
	U.S.A.	2009-612327	11/4/2009	RE42996	12/6/2011
	U.S.A.	2004-882604	6/30/2004	7292561	11/6/2007
32	KR	1020030087886	12/5/2003	633741	10/4/2006
	U.S.A.	2013-861177	4/11/2013	9661113	5/23/2017
	U.S.A.	2010-716600	3/3/2010	8433379	4/30/2013
	U.S.A.	2005-106118	4/13/2005	7693558	4/6/2010
33	KR	1020040025922	4/14/2004	598062	6/30/2006
	U.S.A.	2011-171344	6/28/2011	8200899	6/12/2012
	U.S.A.	2009-362760	1/30/2009	7991958	8/2/2011
34	KR	1020080046505	5/20/2008	985617	9/29/2010
37	U.S.A.	2005-295202	12/6/2005	7567530	7/28/2009
38	U.S.A.	2002-253256	9/24/2002	7136671	11/14/2006
	U.S.A.	2015-929965	11/2/2015	9729699	8/8/2017

	U.S.A.	2014-196273	3/4/2014	9178982	11/3/2015
	U.S.A.	2013-746125	1/21/2013	8699987	4/15/2014
	U.S.A.	2009-625191	11/24/2009	8374572	2/12/2013
	U.S.A.	15/672,018	8/8/2017	10158752	12/18/2018
	U.S.A.	2003-749788	12/30/2003	7643815	1/5/2010
40	U.S.A.	2010-944436	11/11/2010	8060114	11/15/2011
	U.S.A.	2010-693142	1/25/2010	7912482	3/22/2011
	KR	1020040088333	11/2/2004	0632667	9/28/2006
	U.S.A.	2004-021778	12/23/2004	7668553	2/23/2010
41	U.S.A.	2004-899638	7/26/2004	7151487	12/19/2006
	U.S.A.	2003-749578	12/30/2003	6784829	8/31/2004
	CHINA	200410064136.5	8/19/2004	ZL200410064136.5	4/20/2011
	KR	1020030057848	8/21/2003	540248	12/23/2005
42	U.S.A.	2003-750000	12/30/2003	7006037	2/28/2006
	KR	1020030033022	5/23/2003	543308	1/6/2006
43	U.S.A.	16/287,787	2/27/2019	Pending	
	U.S.A.	2014-307326	6/17/2014	9495730	11/15/2016
	U.S.A.	2012-669162	11/5/2012	8767018	7/1/2014
	U.S.A.	13/363,428	2/1/2012	8319799	11/27/2012
	U.S.A.	2010-814262	6/11/2010	8120626	2/21/2012
	U.S.A.	2006-453433	6/28/2006	7755647	7/13/2010
	CHINA	200610095738.6	6/28/2006	101982805	6/15/2011
	KR	1020050056173	6/28/2005	756129	8/30/2007
44	U.S.A.	2011-275103	10/17/2011	8446915	5/21/2013
	U.S.A.	2010-716575	3/3/2010	8054846	11/8/2011
	U.S.A.	2006-441981	5/26/2006	7693163	4/6/2010
	KR	1020050045625	5/30/2005	653527	11/27/2006
45	U.S.A.	2004-933670	9/3/2004	7102196	9/5/2006
	KR	1020030062570	9/8/2003	539960	12/22/2005
46	U.S.A.	2002-214430	8/8/2002	6801271	10/5/2004
	JAPAN	2002-214711	7/24/2002	3773472	2/24/2006
	E.P.O	02014550	7/1/2002	1 316 841	1/1/2014
	U.K.	02014550	7/1/2002	1 316 841	1/1/2014
	FRANCE	02014550	7/1/2002	1 316 841	1/1/2014
	GERMANY	02014550	7/1/2002	02 014 550 4	1/1/2014
	CHINA	02140295.7	7/4/2002	ZL02140295.7	2/2/2005
	KR	1020010075793	12/3/2001	432009	5/7/2004
47	U.S.A.	2002-071750	2/6/2002	6925313	8/2/2005
	JAPAN	2002-031225	2/7/2002	4034079	11/2/2007
	ITALY	02250854	2/7/2002	1231757	11/15/2006

	HONG KONG	02109172.9	12/18/2002	1047666	3/4/2005
	E.P.O	02250854	2/7/2002	1231757	11/15/2006
	U.K.	02250854	2/7/2002	1231757	11/15/2006
	FRANCE	02250854	2/7/2002	1231757	11/15/2006
	GERMANY	02250854	2/7/2002	1231757	11/15/2006
	CHINA	02106877.1	2/7/2002	ZL02106877.1	10/6/2004
48	U.S.A.	2009-645912	12/23/2009	8270999	9/18/2012
	U.S.A.	2006-647636	12/28/2006	7660592	2/9/2010
	KR	1020050133300	12/29/2005	651594	11/22/2006
49	U.S.A.	2013-860672	4/11/2013	9204118	8/14/2015
	U.S.A.	2010-686922	1/13/2010	8433367	4/30/2013
	U.S.A.	2008-217175	7/2/2008	7668569	2/23/2010
	U.S.A.	2005-255610	10/21/2005	7412262	8/12/2008
	JAPAN	2010-099211	4/22/2010	5210347	3/1/2013
	JAPAN	2005-308910	10/24/2005	4557864	7/30/2010
	GERMANY	102005053671.9	11/10/2005	102005053671	12/24/2008
	CHINA	200510120388.x	11/11/2005	ZL200510120388.X	4/1/2009
	KR	1020040101848	12/6/2004	620741	8/29/2006
50	U.S.A.	2005-106160	4/13/2005	7283839	10/16/2007
	HONG KONG	06103630.4	3/22/2006	1083574	10/15/2010
	E.P.O	05252337	4/14/2005	1587288	11/3/2010
	U.K.	05252337	4/14/2005	1587288	11/3/2010
	FRANCE	05252337	4/14/2005	1587288	11/3/2010
	GERMANY	05252337	4/14/2005	1587288	11/3/2010
	KR	1020040083073	10/18/2004	572464	4/18/2006
	CHINA	200510079253.3	4/14/2005	101694372	5/26/2010
51	U.S.A.	2000-655036	9/5/2000	6557010	4/29/2003
	JAPAN	2000-272619	9/8/2000	3638249	1/21/2005
52	U.S.A.	2002-185141	6/27/2002	7103387	9/5/2006
	JAPAN	2002-201859	7/10/2002	3917027	2/16/2007
	E.P.O	02254584	6/28/2002	1309157	8/17/2011
	U.K.	02254584	6/28/2002	1309157	8/17/2011
	FRANCE	02254584	6/28/2002	1309157	8/17/2011
	GERMANY	02254584	6/28/2002	1309157	8/17/2011
	CHINA	02140907.2	7/9/2002	ZL02140907.2	6/4/2008
	KR	1020010067663	10/31/2001	438208	6/21/2004
53	U.S.A.	15/131,746	4/18/2016	9839000	12/05/2017
	U.S.A.	15/801,433	11/2/2017	Pending	
	U.S.A.	14/563,058	12/8/2014	9319507	4/19/2016
	U.S.A.	2013-972475	8/21/2013	8923927	12/10/2014

	U.S.A.	2011-052836	3/21/2011	8532626	9/10/2013
	U.S.A.	2008-183506	7/31/2008	7925242	4/12/2011
	U.S.A.	2006-354608	2/14/2006	7420566	9/2/2008
	KR	1020050012498	2/15/2005	610487	8/1/2006
54	KR	1020050009451	2/2/2005	656670	12/5/2006
55	U.S.A.	2005-134778	5/19/2005	7475332	1/6/2009
	U.S.A.	2012-676214	11/14/2012	8588755	6/17/2013
	U.S.A.	12/816,688	6/16/2010	8331920	12/11/2012
56	KR	1020090065796	7/20/2009	1026905	3/28/2011
	U.S.A.	2006-580741	10/12/2006	7636845	12/22/2009
57	KR	1020050123711	12/15/2005	755536	8/29/2007
	U.S.A.	2011-311458	12/5/2011	8565724	10/22/2013
	U.S.A.	2008-150905	5/1/2008	8078145	12/13/2011
	U.S.A.	2003-602810	6/24/2003	7386297	6/10/2008
	CHINA	03127468.4	6/30/2003	ZL03127468.4	12/5/2007
	KR	1020020085938	12/28/2002	551421	2/3/2006
62	U.S.A.	2016-082832	3/28/2016	9596352	3/14/2017
	U.S.A.	14/685,143	4/13/2015	9300805	3/29/2016
	U.S.A.	2013-058968	10/21/2013	9008637	4/14/2015
	U.S.A.	2011-182024	7/13/2011	8583098	7/8/2013
	U.S.A.	15/457,560	3/13/2017	10009471	06/26/2018
	U.S.A.	15/988,020	5/24/2018	10257359	4/9/2019
	KR	1020110000808	1/5/2011	1308192	9/6/2013
63	U.S.A.	15/338,993	10/31/2016	9769776	9/19/2017
	U.S.A.	15/709,185	9/20/2017	10015759	7/3/2018
	U.S.A.	16/424,258	5/28/2019	10582460	3/3/2020
	U.S.A.	14/626,047	2/19/2015	9516614	12/6/2016
	U.S.A.	13/849,296	3/22/2013	8964645	2/24/2015
	KR	1020120030216	3/23/2012	10-1885540	7/31/2018
64	U.S.A.	2016-173139	6/3/2016	9794029	10/17/2017
	U.S.A.	16/227,369	12/20/2018	Pending	
	U.S.A.	15/705,131	9/14/2017	Pending	
	U.S.A.	2015-942519	11/16/2015	9363801	6/7/2016
	U.S.A.	2015-707736	5/8/2015	9191932	11/17/2015
	U.S.A.	2013-888891	5/7/2013	9030973	5/12/2015
	JAPAN	2015-511358	11/7/2014	6132370	4/28/2017
	E.P.O	13788210.6	5/7/2013	2850758	9/5/2018
	GERMANY	13788210.6	5/7/2013	2850758	9/5/2018
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	U.K.	13788210.6	5/7/2013	2850758	9/5/2018

	CHINA	201380035640.X	1/4/2015	ZL201380035640.X	1/5/2018
65	U.S.A.	14/589971	1/5/2015	10004062	6/19/2018
	U.S.A.	16/685,738	11/15/2019	Pending	
	U.S.A.	13/978524	7/5/2013	8934440	1/13/2015
	KR	1020110001992	1/7/2011	10-1835023	2/27/2018
66	U.S.A.	2014-754045	6/29/2015	10103916	10/16/2018
	U.S.A.	2012-580779	8/23/2012	9071488	6/30/2015
	KR	1020100016195	2/23/2010	1652251	8/24/2016
67	U.S.A.	15/167,518	5/27/2016	10162490	12/25/2018
	U.S.A.	14/816,736	8/3/2015	9357363	5/31/2016
	U.S.A.	2009-364085	2/2/2009	9100496	8/4/2015
	U.S.A.	16/203,174	11/28/2018	10540066	1/21/2020
	GERMANY	DE20096000657T	3/26/2009	EP2117208	1/26/2011
	SPAIN	ES20090156335T	3/26/2009	ES2362448T3	7/5/2011
	E.P.O	09156335.3	3/26/2009	2117208	1/26/2011
	FRANCE	09156335.3	3/26/2009	2117208	1/26/2011
	U.K.	09156335.3	3/26/2009	2117208	1/26/2011
	NETHERLAND	09156335.3	3/26/2009	2117208	1/26/2011
	KR	1020080042843	5/8/2008	986376	10/1/2010
	U.S.A.	15/017,133	2/5/2016	Pending	
	U.S.A.	2013-756444	2/4/2013	9256747	2/9/2016
	KR	1020120019288	2/24/2012	1332811	11/19/2013
69	U.S.A.	2016-010629	1/29/2016	9575631	2/21/2017
	U.S.A.	2015-840844	8/31/2015	9250957	2/2/2016
	U.S.A.	2006-495863	7/28/2006	9122518	4/22/2015
	U.S.A.	15/436,299	2/17/2017	10282054	5/7/2019
	U.S.A.	16/405,803	5/7/2019	Pending	
	KR	1020050073877	8/11/2005	642847	10/30/2006
	U.S.A.	2016-354691	11/17/2016	9930499	3/27/2018
71	U.S.A.	14/827,716	8/17/2015	9503559	11/22/2016
	U.S.A.	2014-152152	1/10/2014	9113312	8/18/2015
	U.S.A.	2011-191363	7/26/2011	8634818	1/21/2014
	E.P.O	11176526.9	8/4/2011	2424170	12/19/2018
	GERMANY	11176526.9	11/29/2018	2424170	12/19/2018
	FRANCE	11176526.9	11/29/2018	2424170	12/19/2018
	U.K.	11176526.9	11/29/2018	2424170	12/19/2018
	CHINA	201110237610.X	8/18/2011	201110237610.X	4/13/2016
	U.S.A.	15/911,495	3/5/2018	10225697	3/5/2019
	U.S.A.	16/290,914	3/3/2019	Pending	
	KR	1020100081908	8/24/2010	1333879	11/21/2013

73	U.S.A.	12/556,331	9/9/2009	8332706	12/11/2012
	KR	1020090022356	3/16/2009	1048865	7/6/2011
74	U.S.A.	2008-599463	11/9/2009	8279744	5/22/2012
	JAPAN	2013-035032	2/25/2013	5628948	9/2/2014
	CHINA	200850023808.4	1/7/2010	ZL200880023808.4	12/11/2012
	KR	1020070045848	5/11/2007	895576	4/22/2009
75	U.S.A.	2005-285960	11/23/2005	7881723	2/1/2011
	CHINA	200510137366.4	11/23/2005	ZL200510137366.4	6/16/2010
	KR	1020040096090	11/23/2004	650058	11/20/2006
76	JAPAN	2013-021345	2/6/2013	5411369	11/15/2013
	KR	1020120023831	3/8/2012	1314472	9/26/2013
77	U.S.A.	2011-195563	8/1/2011	8606284	12/10/2013
	E.P.O	11177039.2	8/10/2011	2424309	12/4/2013
	U.K.	11177039.2	8/10/2011	2424309	12/4/2013
	FRANCE	11177039.2	8/10/2011	2424309	12/4/2013
	GERMANY	11177039.2	8/10/2011	2424309	12/4/2013
	CHINA	201110253571.2	8/30/2011	102387527	12/3/2014
	KR	1020100084319	8/30/2010	1318013	10/7/2013
	U.S.A.	2013-857294	4/5/2013	9072108	2/18/2015
78	U.S.A.	2011-012753	1/24/2011	8433350	12/28/2012
	U.S.A.	2007-846093	8/29/2007	7890130	2/15/2011
	TAIWAN	096131797	8/28/2007	1 377799	8/24/2012
	MEXICO	MX/a/2007/010613	8/30/2007	274942	4/6/2010
	JAPAN	2007-223594	8/30/2007	4685842	1/13/2011
	U.K.	07253398	8/29/2007	1895795	3/9/2016
	FRANCE	07253398	8/29/2007	1895795	3/9/2016
	E.P.O	07253398	8/29/2007	1895795	3/9/2016
	GERMANY	07253398	8/29/2007	1895795	3/9/2016
	CHINA	200710147192.9	8/30/2007	ZL 200710147192.9	11/16/2010
	KR	1020060082992	8/30/2006	765892	10/4/2007
	U.S.A.	2012-412933	3/6/2012	9167534	6/8/2015
	U.S.A.	2007-846106	8/29/2007	8145252	11/16/2011
	TAIWAN	096132057	8/29/2007	1414188	7/22/2013
79	MEXICO	MX/a/2007/010612	8/30/2007	10-274412	3/10/2010
	JAPAN	2007-223592	8/30/2007	4598038	10/1/2010
	E.P.O	07253403	8/29/2007	1895678	7/11/2018
	GERMANY	07253403	5/29/2018	1895678	7/11/2018
	FRANCE	07253403	5/29/2018	1895678	7/11/2018
	U.K.	07253403	5/29/2018	1895678	7/11/2018
	IRELAND	07253403.5	5/29/2018	1895678	7/11/2018

	CHINA	200710147199.0	8/30/2007	ZL 200710147199.0	2/24/2011
	KR	1020060082991	8/30/2006	753369	8/23/2007
81	U.S.A.	2005-285943	11/23/2005	7577115	8/18/2009
	E.P.O	05257261.7	11/25/2005	1662671	11/3/2010
	NETHERLAND	05257261.7	11/25/2005	1662671	11/3/2010
	U.K.	05257261.7	11/25/2005	1662671	11/3/2010
	FRANCE	05257261.7	11/25/2005	1662671	11/3/2010
	FINLAND	05257261.7	11/25/2005	1662671	11/3/2010
	GERMANY	05257261.7	11/25/2005	1662671	11/3/2010
	CHINA	200510121565.6	11/25/2005	ZL200510121565.6	4/30/2008
	KR	1020040097330	11/25/2004	622149	9/1/2006
83	U.S.A.	2002-330737	12/27/2002	7167716	1/23/2007
	HONG KONG	03108579.9	11/25/2003	1056450	8/18/2006
	CHINA	02154242.2	12/31/2002	ZL02154242.2	4/19/2006
84	U.S.A.	2011-143688	7/7/2011	8559480	10/15/2013
	JAPAN	2011-546214	7/19/2011	5228113	3/22/2013
	E.P.O	10733619.0	6/29/2011	2381584	8/8/2018
	FRANCE	10733619.0	1/15/2010	2381584	8/8/2018
	GERMANY	10733619.0	1/15/2010	2381584	8/8/2018
	U.K.	10733619.0	1/15/2010	2381584	8/8/2018
	CHINA	201080004784.5	7/18/2011	ZL 201080004784.5	11/26/2014
	KR	1020090004682	1/20/2009	991957	10/28/2010
85	U.S.A.	2009-629570	12/2/2009	8345867	1/1/2013
	JAPAN	2011-538568	5/27/2011	5230620	3/29/2013
	E.P.O	9830590.7	12/2/2009	2359512	8/24/2016
	GERMANY	9830590.7	12/2/2009	2359512	8/24/2016
	FRANCE	09830590.7	12/2/2009	2359512	8/24/2016
	U.K.	09830590.7	12/2/2009	2359512	8/24/2016
	CHINA	200980148059.5	5/31/2011	ZL200980148059.2	7/28/2014
	KR	1020080121495	12/2/2008	1037520	5/20/2011
86	U.S.A.	2010-363821	1/12/2012	9009207	4/14/2015
	E.P.O	10800014.2	2/10/2012	2456117	9/9/2015
	U.K.	10800014.2	2/10/2012	2456117	9/9/2015
	FRANCE	10800014.2	2/10/2012	2456117	9/9/2015
	GERMANY	10800014.2	2/10/2012	2456117	9/9/2015
	CHINA	201080037807.2	2/24/2012	ZL201080037807.2	4/15/2016
	KR	1020090063719	7/13/2009	1685173	12/5/2016
88	U.S.A.	12/582,164	10/20/2009	8675510	10/31/2013
	KR	1020080104313	10/23/2008	1041681	6/8/2011
89	U.S.A.	12/958,749	12/2/2010	Pending	

	U.S.A.	2006-532284	9/13/2006	7853289	12/14/2010
	CHINA	200610159202.6	9/22/2006	ZL200610159202.6	10/7/2009
	KR	1020050088083	9/22/2005	694378	3/6/2007
90	U.S.A.	16/452,244	6/25/2019	Pending	
	U.S.A.	2012-653969	10/17/2012	9398499	7/19/2016
	KR	1020120043688	4/26/2012	1341303	12/6/2013
91	U.S.A.	2011-177761	7/7/2011	8929223	12/17/2014
	KR	1020100136900	12/28/2010	1266692	5/14/2013
92	U.S.A.	12/832,665	7/8/2010	8301151	6/29/2012
	KR	1020090098752	10/16/2009	1065092	9/7/2011
93	U.S.A.	2009-539364	10/12/2009	RE43930	8/30/2012
	U.S.A.	2004-835876	4/29/2004	7257410	8/14/2007
	KR	1020030061086	9/2/2003	511554	8/24/2005
94	U.S.A.	12/759,974	4/14/2010	RE43059	1/3/2012
	U.S.A.	2003-729755	12/4/2003	7366222	4/29/2008
	KR	1020020083746	12/24/2002	470401	1/27/2005
95	U.S.A.	2005-263858	11/2/2005	7904025	3/8/2011
	KR	1020040103715	12/9/2004	698665	3/15/2007
96	U.S.A.	12/861,637	8/23/2010	8098624	1/17/2012
	U.S.A.	2005-132400	5/19/2005	7801074	9/21/2010
	KR	1020040059401	7/28/2004	620713	8/29/2006
97	U.S.A.	2003-744321	12/22/2003	7333828	2/19/2008
	KR	2003-0098663	12/31/2002	598055	7/10/2006
98	U.S.A.	2003-749456	12/31/2003	7123912	10/17/2006
	KR	1020030026991	4/29/2003	0592885	6/16/2006

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