

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4270529

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>SEQUENCE:</b>	3
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
THOMSON LICENSING	01/04/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THOMSON LICENSING DTV
<b>Street Address:</b>	1-5 RUE JEANNE D'ARC
<b>City:</b>	ISSY-LES-MOULINEAUX
<b>State/Country:</b>	FRANCE
<b>Postal Code:</b>	92130
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	09294157
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>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.</i>	
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<b>ATTORNEY DOCKET NUMBER:</b>	RCA89491-US-NP SEQ 3
<b>NAME OF SUBMITTER:</b>	PATRICIA A. VERLANGIERI
<b>SIGNATURE:</b>	/Patricia A. Verlangieri, Reg.No. 42201/
<b>DATE SIGNED:</b>	02/10/2017
<b>Total Attachments: 18</b>	
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## Confirmation of assignment of Patent Rights

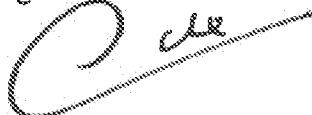
For good and valuable consideration, the receipt of which is hereby acknowledged, Thomson Licensing, SAS, a company duly organized under the laws of France, having offices at 1-5, rue Jeanne d'Arc, 92130 Issy les Moulineaux, France ("Assignor") hereby confirm that it has:

Assigned, with an effective date on January 4<sup>th</sup>, 2016, to Thomson Licensing DTV, SAS, a company duly organized under the laws of France, having offices at 1-5, rue Jeanne d'Arc, 92130 Issy les Moulineaux, France ("Assignee"), who accepted such assignment, and its successors, assigns, and legal representatives, Assignor's entire right, title and interest, including the right to sue for past and future infringement, collect past and future royalties and/or damages, and/or seek injunctive relief in the United States and all foreign countries, in and to the patents and patent applications listed in attachment A; in an to any and all inventions and improvements that are disclosed therein; in and to all divisional, continuation, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States and all foreign countries that are based upon the patents and patent applications listed in Attachment A; in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries based upon the patents and patent applications listed in Attachment A; and in and to all rights of priority based upon the patents and patent applications listed in Attachment A; and

agreed that said Assignee may apply for and receive a patent or patents for said inventions and improvements in its own name; and that, when reasonably requested by, without charge, but at the expense of said Assignee, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuation, substitute, renewal, reissue and all other patent applications on any and all said inventions and improvements and execute all rightful oaths, assignments and power of attorney required thereof.

Thomson Licensing, SAS

Signature:



Name: Adrien Cadieux

Title: Authorized Signatory

Thomson Licensing DTV, SAS

Signature:



Name: Adrien Cadieux

Title: President













Family	Application	Country	Protection Type	Fam 1st Prior Fil Date	FILING DATE	FILING NUMBER	PUBLICATION DATE	PUBLICATION NUMBER	GRANT DATE	GRANT NUMBER
RC48898933	RC48898933-US-NP	US	NP	02/08/1999 00:00:00	07/08/1999 00:00:00	09130827	09/11/2000 00:00:00	6233020	15/05/2001 00:00:00	6233020
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PI070132	PI070132-US-NP	US	NP	1						

Family	Application	Country	Protection Type	Fam 1st Prior Fil Date	FILINGDATE	FILINGNUMBER	PUBLICATIONDATE	PUBLICATIONNUMBER	GRANTDATE	GRANTNUMBER
PA110018	PA110018-US-PT	US	NP	22/09/2011 00:00:00	12/29/2011 00:00:00	14,345,956	04/12/2014 00:00:00	2014-0359866-A1		
PF110131	PF110131-US-PT	US	NP	06/12/2011 00:00:00	18/12/2012 00:00:00	17,717,760	27/08/2013 00:00:00	2013-016678-A1		
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PF110186	PF110186-US-PT	US	NP	23/03/2012 00:00:00	01/03/2013 00:00:00	14,386,638				
PJ100142	PJ100142-US-PT	US	NP	07/08/2009 00:00:00	03/08/2010 00:00:00	13,387,999	17/09/2012 00:00:00	2012-01124625-A1	14/04/2015 00:00:00	9009758
PJ100109	PJ100109-US-PT	US	NP	20/08/2009 00:00:00	12/08/2010 00:00:00	13,380,994	05/07/2012 00:00:00	2012-0134426-A1		
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RC A89043	RC A89043-US-PT	US	NP	07/07/2002 00:00:00	01/10/2003 00:00:00	10,529,934	03/05/2007 00:00:00	2007-0096886-A1	03/05/2011 00:00:00	7203358
RC A89003	RC A89003-US-PT	US	DIV	25/03/1998 00:00:00	29/04/2004 00:00:00	10,959,517	24/02/2005 00:00:00	2005-0041955-A1	20/07/2010 00:00:00	7934308
RC A89041	RC A89041-US-PT	US	NP	05/03/2003 00:00:00	01/03/2004 00:00:00	10,555,617	12/10/2005 00:00:00	2005-0021750-A1	24/05/2011 00:00:00	7949074
RC A89080	RC A89080-US-PT	US	NP	26/08/2004 00:00:00	02/03/2004 00:00:00	10,561,561	27/07/2005 00:00:00	2005-0165128-A1	24/09/2010 00:00:00	8542733
RC A89029	RC A89029-US-PT	US	NP	15/07/2003 00:00:00	12/01/2005 00:00:00	10,582,662	27/02/2005 00:00:00	2005-0165175-A1	21/04/2007 00:00:00	7523234
RC A89035	RC A89035-US-PT	US	NP	23/03/2003 00:00:00	12/01/2005 00:00:00	10,582,627	30/08/2007 00:00:00	2007-0192157-A1	10/01/2012 00:00:00	8099718
RC A89019	RC A89019-US-PT	US	NP	20/12/2005 00:00:00	29/10/2006 00:00:00	11,605,995	31/12/2009 00:00:00	2009-0158505-A1	05/10/2013 00:00:00	8309710
RC A89042	RC A89042-US-PT	US	NP	29/10/2006 00:00:00	28/10/2007 00:00:00	12,311,922	07/08/2010 00:00:00	2010-0152804-A1	06/11/2012 00:00:00	8308397
RC A89042	RC A89042-US-PT	US	NP	28/11/2007 00:00:00	14/02/2012 00:00:00	13,418,910	20/08/2013 00:00:00	2013-0155928-A1	09/07/2015 00:00:00	8309710
RC A89039	RC A89039-US-PT	US	NP	19/12/2011 00:00:00	14/02/2012 00:00:00	13,418,910	14/09/2015 00:00:00	2014-0217404-A1		
RC A89026	RC A89026-US-PT	US	NP	05/01/2003 00:00:00	14/12/2004 00:00:00	13,425,810	13/09/2015 00:00:00	2015-0230286-A1		
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RC A89011	RC A89011-US-PT	US	NP	19/01/2011 00:00:00	16/01/2011 00:00:00	13,523,242	20/12/2012 00:00:00	2012-0230983-A1		
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RC A89016	RC A89016-US-PT	US	NP	02/07/2010 00:00:00	09/06/2011 00:00:00	11,327,244	05/04/2012 00:00:00	2012-0084815-A1		
RC A89032	RC A89032-US-PT	US	NP	10/06/2009 00:00:00	12/12/1996 00:00:00	08,744,544				
RC A89248	RC A89248-US-PT	US	NP	14/11/1996 00:00:00	14/11/1997 00:00:00	08,971,016				
RC A89050	RC A89050-US-PT	US	NP	25/10/1996 00:00:00	22/10/1997 00:00:00	08,955,929				
RC A89065	RC A89065-US-PT	US	NP	14/09/1999 00:00:00	12/09/2000 00:00:00	09,660,381				
RC A89065	RC A89065-US-PT	US	NP	31/12/1999 00:00:00	30/12/1998 00:00:00	09,582,995				
RC A89094	RC A89094-US-PT	US	NP	28/12/1999 00:00:00	20/12/2000 00:00:00	09,741,533				
RC A89044	RC A89044-US-PT	US	NP	30/11/2000 00:00:00	27/06/2001 00:00:00	09,893,116	30/05/2002 00:00:00	2002-00663793-A1	01/07/2004 00:00:00	6631701
RC A89026	RC A89026-US-PT	US	NP	26/05/2000 00:00:00	15/11/2000 00:00:00	09,712,887				
RC A89055	RC A89055-US-PT	US	NP	01/05/1998 00:00:00	01/05/1998 00:00:00	09,068,188				
RC A89346	RC A89346-US-PT	US	NP	22/12/1999 00:00:00	22/12/1999 00:00:00	09,471,074	27/06/2002 00:00:00	2002-0080160-A1	17/09/2002 00:00:00	6452616
RC A89346	RC A89346-US-PT	US	NP	19/12/2000 00:00:00	19/12/2000 00:00:00	09,740,115	20/06/2002 00:00:00	2002-0075664-A1	18/11/2003 00:00:00	6650248
RC A89099	RC A89099-US-PT	US	NP	08/05/2001 00:00:00	13/12/2001 00:00:00	10,020,421	12/12/2002 00:00:00	2002-0186325-A1	24/04/2007 00:00:00	7209183
RC A89050	RC A89050-US-PT	US	NP	01/03/2002 00:00:00	01/03/2002 00:00:00	10,066,650	04/09/2003 00:00:00	2003-0165325-A1	12/12/2006 00:00:00	7149412
RC A89051	RC A89051-US-PT	US	NP	13/05/2002 00:00:00	13/05/2002 00:00:00	10,144,995	13/11/2003 00:00:00	2003-0210792-A1	11/05/2014 00:00:00	6735314
RC A89205	RC A89205-US-PT	US	NP	11/04/2002 00:00:00	02/04/2003 00:00:00	10,510,605	20/10/2005 00:00:00	2005-0235331-A1	30/04/2013 00:00:00	8434124
RC A89228	RC A89228-US-PT	US	NP	18/12/1999 00:00:00	03/06/1999 00:00:00	09,319,224				
RC A89228	RC A89228-US-PT	US	NP	31/07/2003 00:00:00	02/08/2004 00:00:00	10,909,913	31/03/2005 00:00:00	2005-0068260-A1	05/08/2008 00:00:00	6970504
RC A89327	RC A89327-US-PT	US	NP	17/09/2004 00:00:00	02/09/2004 00:00:00	10,569,695	28/12/2006 00:00:00	2006-0291557-A1	05/08/2008 00:00:00	7408592
RC A89327	RC A89327-US-PT	US	NP	24/07/1997 00:00:00	24/01/2000 00:00:00	09,498,676				
RC A89327	RC A89327-US-PT	US	NP	23/09/2004 00:00:00	23/09/2005 00:00:00	11,658,068	22/05/2008 00:00:00	2008-0120653-A1	15/11/2005 00:00:00	8094741
RC A89498	RC A89498-US-PT	US	NP	23/07/2004 00:00:00	22/07/2005 00:00:00	11,658,068	30/08/2010 00:00:00	2010-0292932-A1	09/08/2011 00:00:00	6666063
RC A89503	RC A89503-US-PT	US	NP	14/04/2005 00:00:00	14/04/2005 00:00:00	11,887,912	26/02/2009 00:00:00	2009-0055189-A1	23/11/2010 00:00:00	7840142
RC A89513	RC A89513-US-PT	US	NP	19/01/2005 00:00:00	17/01/2006 00:00:00	11,795,917	12/06/2008 00:00:00	2008-0137261-A1	03/07/2010 00:00:00	8213508
RC A89098	RC A89098-US-PT	US	NP	02/04/2004 00:00:00	31/03/2005 00:00:00	10,593,536	11/11/2008 00:00:00	2008-0304567-A1	07/10/2012 00:00:00	8213508
RC A89014	RC A89014-US-PT	US	NP	08/04/2005 00:00:00	29/03/2006 00:00:00	11,339,242	2008-0262161-A1	2008-0262161-A1	03/07/2010 00:00:00	7847861
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RC A89042	RC A89042-US-PT	US	NP	17/10/2005 00:00:00	11/09/2007 00:00:00	11,939,271	28/07/2010 00:00:00	2010-0168989-A1	07/08/2012 00:00:00	8238439
RC A89001	RC A89001-US-PT	US	NP	04/01/2007 00:00:00	04/01/2008 00:00:00	12,448,480	06/01/2010 00:00:00	2010-0020884-A1		
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RC A89076	RC A89076-US-PT	US	NP	16/03/2007 00:00:00	16/03/2007 00:00:00	12,430,315	22/04/2010 00:00:00	2010-009193-A1	26/02/2013 00:00:00	8385473
RC A89067	RC A89067-US-PT	US	NP	28/12/2006 00:00:00	19/12/2007 00:00:00	12,449,184	18/03/2010 00:00:00	2010-0065912-A1	10/09/2013 00:00:00	8523198

Family	Application	Country	Protection Type	Fam 1st Prior Fil Date	FILINGDATE	FILINGNUMBER	PUBLICATIONDATE	PUBLICATIONNUMBER	GRANTDATE	GRANTNUMBER
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FE080048	FE080048-1-US-NP	US	NP	11/04/2008 00:00:00	07/26/2009 00:00:00	12,453,997	27/10/2011 00:00:00	2011-0261582-A1	20/03/2012 00:00:00	8138811
FE080020	FE080020-1-US-NP	US	NP	15/05/2009 00:00:00	13/05/2009 00:00:00	12,453,997	19/11/2010 00:00:00	2009-0294301-A1	23/04/2013 00:00:00	8482829
FE060046	FE060046-1-US-NP	US	NP	14/12/2006 00:00:00	14/12/2006 00:00:00	12,448,151	14/01/2010 00:00:00	2010-0004181-A1	15/09/2015 00:00:00	9137309
FE080037	FE080037-1-US-NP	US	NP	26/06/2009 00:00:00	03/06/2009 00:00:00	12,455,547	26/02/2010 00:00:00	2010-0032174-A1	14/12/2015 00:00:00	9137592
RCA88321	RCA88321-1-US-DIV/1	US	DIV	14/04/1997 00:00:00	30/07/2008 00:00:00	12,222,024	26/02/2009 00:00:00	2009-0055668-A1	15/09/2015 00:00:00	9137588
PUI00712	PUI00712-1-US-PCT	US	PCT	29/01/2010 00:00:00	29/01/2010 00:00:00	12,755,402	10/03/2011 00:00:00	2011-0066963-A1	15/09/2015 00:00:00	9137588
PUI00749	PUI00749-1-US-PCT	US	PCT	25/01/2011 00:00:00	25/01/2011 00:00:00	12,755,402	10/03/2011 00:00:00	2011-0268596-A1	12/07/2014 00:00:00	8789099
PUI00059	PUI00059-1-US-PCT	US	PCT	19/08/2010 00:00:00	19/08/2010 00:00:00	13,816,522	06/06/2013 00:00:00	2013-0141432-A1	2012-0209890-A1	
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FE090048	FE090048-1-US-PCT	US	PCT	30/06/2011 00:00:00	15/06/2012 00:00:00	14,130,974	15/09/2014 00:00:00	2014-0133660-A1	2014-0133660-A1	
FE110160	FE110160-1-US-NP	US	NP	29/12/2012 00:00:00	27/12/2012 00:00:00	13,777,077	04/07/2013 00:00:00	2013-0169869-A1	2013-0169869-A1	
PUI10026	PUI10026-1-US-PCT	US	PCT	30/06/2011 00:00:00	30/06/2011 00:00:00	14,127,985	08/05/2014 00:00:00	2014-0166990-A1	2014-0166990-A1	
PUI20012	PUI20012-1-US-PCT	US	PCT	18/04/2012 00:00:00	18/04/2012 00:00:00	14,308,546	26/07/2015 00:00:00	2015-0055882-A1	25/08/2015 00:00:00	9118971
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PUI090110	PUI090110-1-US-PCT	US	PCT	21/08/2009 00:00:00	13/08/2010 00:00:00	13,391,568	14/06/2012 00:00:00	2012-0149481-A1		
PUI09005	PUI09005-1-US-NP	US	NP	30/01/2009 00:00:00	15/01/2010 00:00:00	12,657,246	05/08/2012 00:00:00	2012-0149481-A1		
PUI09007	PUI09007-1-US-PCT	US	PCT	26/02/2010 00:00:00	26/02/2010 00:00:00	13,580,889	20/12/2011 00:00:00	2012-0324510-A1		
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PUI01024	PUI01024-1-US-NP	US	NP	06/05/1998 00:00:00	30/04/1999 00:00:00	09,303,970	16/01/2003 00:00:00	2003-0012561-A1		
PUI01049	PUI01049-1-US-NP	US	NP	12/07/2001 00:00:00	12/07/2001 00:00:00	09,904,022	23/12/2004 00:00:00	2004-0257468-A1		
PE920077	PE920077-1-US-PCT	US	PCT	27/11/2001 00:00:00	22/11/2002 00:00:00	10,495,680	23/12/2004 00:00:00	2004-0076076-A1		
PUI00048	PUI00048-1-US-CPA	US	CPA	13/02/1997 00:00:00	09/02/1998 00:00:00	09,070,524	23/08/2002 00:00:00	2002-0016076-A1		
PUI00103	PUI00103-1-US-NP	US	NP	09/01/2001 00:00:00	15/12/2000 00:00:00	09,797,688	11/07/2002 00:00:00	2002-0076076-A1		
PUI01020	PUI01020-1-US-NP	US	NP	14/12/2001 00:00:00	14/12/2001 00:00:00	10,017,618	19/06/2003 00:00:00	2003-0015949-A1		
FE030025	FE030025-1-US-NP	US	NP	17/01/2003 00:00:00	16/01/2004 00:00:00	10,759,900	29/07/2004 00:00:00	2004-0146201-A1		
PUI00010	PUI00010-1-US-PCT	US	PCT	04/12/2002 00:00:00	21/11/2003 00:00:00	10,719,260	01/07/2004 00:00:00	2004-0128013-A1		
PUI00097	PUI00097-1-US-PCT	US	PCT	05/04/2002 00:00:00	02/04/2003 00:00:00	10,510,057	11/07/2005 00:00:00	2005-0193053-A1		
PUI03026	PUI03026-1-US-PCT	US	PCT	01/04/2003 00:00:00	30/03/2004 00:00:00	10,551,404	30/11/2006 00:00:00	2006-0192199-A1		
PUI03046	PUI03046-1-US-PCT	US	PCT	06/10/2004 00:00:00	06/10/2004 00:00:00	11,665,184	24/06/2008 00:00:00	2008-0167509-A1		
FE03042	FE03042-1-US-DIV/1	US	DIV	06/10/2004 00:00:00	06/10/2004 00:00:00	11,312,613	24/06/2008 00:00:00	2008-0167509-A1		
PUI00143	PUI00143-1-US-CPA	US	CPA	30/11/2005 00:00:00	18/11/2005 00:00:00	11,292,934	19/06/2006 00:00:00	2006-0192199-A1		
PUI00142	PUI00142-1-US-PCT	US	PCT	28/07/2008 00:00:00	27/07/2008 00:00:00	11,268,745	32/06/2008 00:00:00	2008-0192199-A1		
PUI00178	PUI00178-1-US-PCT	US	PCT	28/07/2008 00:00:00	14/12/2008 00:00:00	11,989,581	04/08/2009 00:00:00	2009-0192199-A1		
FE070015	FE070015-1-US-NP	US	NP	06/07/2007 00:00:00	05/07/2008 00:00:00	12,012,564	04/09/2008 00:00:00	2008-0213892-A1		
PUI080025	PUI080025-1-US-PCT	US	PCT	22/03/2008 00:00:00	14/12/2008 00:00:00	12,725,662	16/09/2011 00:00:00	2011-0004480-A1		
PUI02024	PUI02024-1-US-PCT	US	PCT	05/10/2007 00:00:00	15/09/2008 00:00:00	12,738,847	06/09/2010 00:00:00	2010-0232489-A1		
PUI080006	PUI080006-1-US-PCT	US	PCT	17/01/2008 00:00:00	07/01/2009 00:00:00	12,735,411	03/03/2011 00:00:00	2011-0085284-A1		
FE070136	FE070136-1-US-PCT	US	PCT	19/12/2007 00:00:00	16/12/2008 00:00:00	12,755,157	03/05/2012 00:00:00	2012-0105618-A1		
PUI080020	PUI080020-1-US-PCT	US	PCT	12/05/2008 00:00:00	12/05/2008 00:00:00	12,981,969	15/06/2011 00:00:00	2011-0142309-A1		
PUI050099	PUI050099-1-US-DIV/2	US	DIV	11/05/2000 00:00:00	11/08/2008 00:00:00	12,189,688	26/02/2009 00:00:00	2009-0055463-A1		
PE110109	PE110109-1-US-PCT	US	PCT	04/10/2011 00:00:00	04/09/2012 00:00:00	14,348,107	02/07/2015 00:00:00	2015-0189297-A1		
FE100012	FE100012-1-US-PCT	US	PCT	11/02/2010 00:00:00	09/02/2011 00:00:00	13,572,994	01/08/2013 00:00:00	2013-0195271-A1		
PUI00105	PUI00105-1-US-PCT	US	PCT	18/05/2010 00:00:00	18/05/2010 00:00:00	13,639,929	14/02/2013 00:00:00	2013-0039637-A1		
PUI10008	PUI10008-1-US-PCT	US	PCT	24/06/2011 00:00:00	24/06/2011 00:00:00	14,138,623	01/05/2014 00:00:00	2014-0119460-A1		
PUI01019	PUI01019-1-US-PCT	US	PCT	27/09/2011 00:00:00	26/09/2012 00:00:00	14,345,193	01/01/2015 00:00:00	2015-0000721-A1		
PUI00046	PUI00046-1-US-PCT	US	PCT	19/02/2010 00:00:00	11/02/2011 00:00:00	13,579,401	27/06/2013 00:00:00	2013-0163668-A1		
PUI090021	PUI090021-1-US-PCT	US	PCT	06/02/2009 00:00:00	05/02/2010 00:00:00	13,138,368	24/11/2011 00:00:00	2011-0264390-A1		
PUI090118	PUI090118-1-US-NP	US	NP	17/09/2010 00:00:00	17/09/2010 00:00:00	12,885,417	17/03/2011 00:00:00	2011-0064390-A1		
PUI000126	PUI000126-1-US-PCT	US	PCT	26/05/2000 00:00:00	15/11/2011 00:00:00	13,297,214	08/03/2012 00:00:00	2012-0085949-A1		
FE090024	FE090024-1-US-PCT	US	PCT	06/03/2009 00:00:00	03/03/2010 00:00:00	13,138,538	03/05/2012 00:00:00	2012-0105641-A1		
RC489456	RC489456-1-US-NP	US	NP	04/06/1999 00:00:00	04/06/1999 00:00:00	09,327,088	09/09/2012 00:00:00	2012-0039637-A1		
RC488917	RC488917-1-US-NP	US	NP	10/06/1998 00:00:00	09/04/1998 00:00:00	09,097,647	28/08/2008 00:00:00	2008-0036714-A1		
PA970003	PA970003-1-US-NP	US	NP	26/11/1996 00:00:00	24/11/1997 00:00:00	09,977,515	08/07/2015 00:00:00	2015-0055882-A1		
FE980062	FE980062-1-US-NP	US	NP	15/09/1998 00:00:00	15/09/1998 00:00:00	09,386,570				
FE990041	FE990041-1-US-NP	US	NP	18/06/1999 00:00:00	16/06/2000 00:00:00	09,595,739	15/05/2003 00:00:00	2003-0091337-A1		
P0010069	P0010069-1-US-NP	US	NP	14/11/2001 00:00:00	22/10/2002 00:00:00	10,278,192	12/08/2003 00:00:00	2003-0043295-A1		
PUI010185	PUI010185-1-US-NP	US	NP	31/08/2001 00:00:00	11/08/2001 00:00:00	09,944,460	06/03/2003 00:00:00	2003-0043295-A1		
PUI010128	PUI010128-1-US-NP	US	NP	11/06/2001 00:00:00	11/06/2002 00:00:00	10,479,537	12/08/2004 00:00:00	2004-0020832-A1		
RC489889	RC489889-1-US-PCT	US	PCT	17/03/2000 00:00:00	13/03/2001 00:00:00	10,204,575	30/01/2003 00:00:00	2003-0020832-A1		
PUI000181	PUI000181-1-US-NP	US	NP	13/12/2000 00:00:00	19/09/2001 00:00:00	09,955,683	28/03/2002 00:00:00	2002-0036714-A1		
RC489749	RC489749-1-US-PCT	US	PCT	23/11/1999 00:00:00	22/11/2000 00:00:00	10,148,155	04/07/2004 00:00:00	2004-0055703-A1		
RC489564	RC489564-1-US-PCT	US	PCT	16/07/1999 00:00:00	14/07/2000 00:00:00	10,148,155	03/02/2004 00:00:00	2004-0055703-A1		
RC489193	RC489193-1-US-NP	US	NP	12/05/2000 00:00:00	30/04/2001 00:00:00	09,845,955	02/05/2002 00:00:00	2002-0051084-A1		
RC489894	RC489894-1-US-NP	US	NP	30/12/1999 00:00:00	30/12/1999 00:00:00	09,475,447	08/08/2006 00:00:00	2006-0088720-A1		
RC489970	RC489970-1-US-NP	US	NP	06/01/2000 00:00:00	13/09/2000 00:00:00	09,663,506	13/07/2004 00:00:00	2004-0085703-A1		
PE000127	PE000127-1-US-PCT	US	PCT	15/12/2000 00:00:00	14/11/2001 00:00:00	10,433,347	25/03/2004 00:00:00	2004-0085703-A1		
PUI030012	PUI030012-1-US-PCT	US	PCT	10/01/2003 00:00:00	17/04/2003 00:00:00	10,541,762	21/12/2005 00:00:00	2005-0288764-A1		
PUI00156	PUI00156-1-US-PCT	US	PCT	22/04/2002 00:00:00	17/04/2003 00:00:00	10,512,228	13/04/2006 00:00:00	2006-0088720-A1		
PUI01099	PUI01099-1-US-PCT	US	PCT	06/09/2001 00:00:00	28/05/2002 00:00:00	10,489,918	09/12/2004 00:00:00	2004-0294989-A1		

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PR020082	PR020092-US-PCT	US	PCT	23/08/2001 00:00:00	05/08/2002 00:00:00	104525182	15/09/2006 00:00:00	2006-0125218-A1	22/06/2010 00:00:00	7243109
PR030213	PR030213-US-PCT	US	PCT	21/07/2004 00:00:00	13/01/2004 00:00:00	110553826	07/09/2006 00:00:00	2006-0197871-A1	24/08/2009 00:00:00	7782399
PR040067	PR040067-US-NP	US	NP	22/04/2004 00:00:00	22/04/2005 00:00:00	111144208	27/10/2005 00:00:00	2005-0237044-A1	27/05/2008 00:00:00	7379310
PR040032	PR040032-US-NP	US	NP	22/11/2004 00:00:00	21/11/2005 00:00:00	112843278	15/06/2006 00:00:00	2006-0115175-A1	09/07/2013 00:00:00	8483288
PR040040	PR040040-US-NP	US	NP	12/11/2004 00:00:00	08/03/2005 00:00:00	110724954	2009-0202719-A1	18/07/2006 00:00:00	2009-0202719-A1	7077668
PR040008	PR040008-US-PCT	US	PCT	08/01/2004 00:00:00	28/12/2004 00:00:00	110758535	23/07/2009 00:00:00	2009-0184864-A1	23/11/2010 00:00:00	7839015
PR040164	PR040164-US-PCT	US	PCT	04/06/2004 00:00:00	04/06/2004 00:00:00	116528280	04/10/2007 00:00:00	2007-0232380-A1	17/07/2012 00:00:00	8235345
PR050012	PR050012-US-NP	US	NP	27/05/2005 00:00:00	23/05/2006 00:00:00	114398692	11/01/2007 00:00:00	2007-0090922-A1	30/08/2011 00:00:00	8009730
PR050147	PR050147-US-PCT	US	PCT	02/08/2006 00:00:00	31/07/2007 00:00:00	114399540	06/08/2009 00:00:00	2009-0308997-A1	20/07/2010 00:00:00	8533175
PR070002	PR070002-US-PCT	US	PCT	10/09/2005 00:00:00	24/08/2006 00:00:00	112980723	17/12/2009 00:00:00	2010-0130368-A1	10/09/2013 00:00:00	8433988
PR080191	PR080191-US-PCT	US	PCT	04/01/2008 00:00:00	04/01/2008 00:00:00	121448460	22/07/2010 00:00:00	2010-0130368-A1	10/09/2013 00:00:00	8533189
PR080934	PR080934-US-NP	US	NP	20/04/2008 00:00:00	02/04/2009 00:00:00	121756095	06/01/2011 00:00:00	2011-0200274-A1	18/09/2012 00:00:00	8270472
PR080927	PR080927-US-PCT	US	PCT	29/10/2008 00:00:00	29/10/2008 00:00:00	121756095	08/10/2009 00:00:00	2009-0251613-A1	10/09/2013 00:00:00	8533189
PR100022	PR100022-US-NP	US	NP	09/11/2007 00:00:00	10/11/2008 00:00:00	12268255	21/05/2009 00:00:00	2009-0129465-A1	2009-0129465-A1	7839015
PR100028	PR100028-US-PCT	US	PCT	14/10/2010 00:00:00	14/10/2010 00:00:00	131684859	30/05/2013 00:00:00	2013-0139080-A1	2013-0139080-A1	8765087
PR110063	PR110063-US-PCT	US	PCT	20/09/2011 00:00:00	18/09/2012 00:00:00	143345772	01/08/2013 00:00:00	2013-0194511-A1	24/06/2014 00:00:00	8765087
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PR080644	PR080644-US-PCT	US	PCT	14/10/2009 00:00:00	06/03/2000 00:00:00	131501535	09/08/2012 00:00:00	2012-0201293-A1		
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PR088884	PR088884-US-NP	US	NP	04/02/1998 00:00:00	19/12/1996 00:00:00	087893229			25/04/2004 00:00:00	7058920
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PR020008	PR020008-US-PCT	US	PCT	21/11/2003 00:00:00	10/12/2003 00:00:00	110451650	06/01/2005 00:00:00	2005-0002446-A1	23/03/2010 00:00:00	7684472
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PR010049	PR010049-US-PCT	US	PCT	05/01/2012 00:00:00	31/12/2011 00:00:00	143398448				
PR010004	PR010004-US-PCT	US	PCT	22/01/2010 00:00:00	20/01/2011 00:00:00	135744428	22/11/2012 00:00:00	2012-0234569-A1		
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PR010294	PR010294-US-NP	US	NP	21/03/2002 00:00:00	21/03/2002 00:00:00	110103848	25/09/2003 00:00:00	2003-0178957-A1		6553813



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P0030114	P0030114-US-PCT	US	PCT	11/04/2003 00:00:00	07/04/2004 00:00:00	10,532,559	21/12/2006 00:00:00	2006-0285664-A1	20/07/2010 00:00:00
P0040051	P0040051-US-PCT	US	PCT	14/01/2002 00:00:00	14/01/2005 00:00:00	11,795,662	31/01/2008 00:00:00	2008-0025376-A1	14/05/2013 00:00:00
RC488662	RC488662-US-CNT11	US	CNT	23/12/1997 00:00:00	15/12/2004 00:00:00	11,014,079	01/09/2004 00:00:00	2005-0192092-A1	21/09/2010 00:00:00
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P0050092	P0050092-US-NP	US	PCT	10/01/2006 00:00:00	05/12/2006 00:00:00	12,087,553	01/01/2009 00:00:00	2009-0030445-A1	17/12/2013 00:00:00
P0050007	P0050007-US-PCT	US	PCT	09/01/2006 00:00:00	09/08/2006 00:00:00	11,087,920	29/01/2009 00:00:00	2009-0082449-A1	2009-0037957-A1
P0050202	P0050202-US-PCT	US	PCT	24/08/2002 00:00:00	09/08/2006 00:00:00	11,990,939	05/02/2009 00:00:00	2009-0082449-A1	01/07/2014 00:00:00
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P0060029	P0060029-US-PCT	US	PCT	27/02/2007 00:00:00	22/02/2007 00:00:00	12,224,188	28/05/2009 00:00:00	2009-0156021-A1	05/03/2013 00:00:00
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P0080086	P0080086-US-PCT	US	PCT	15/10/2010 00:00:00	15/10/2010 00:00:00	13,876,031	11/07/2013 00:00:00	2013-0177054-A1	2013-0177054-A1
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P0080038	P0080038-US-PCT	US	PCT	05/03/2013 00:00:00	04/03/2013 00:00:00	14,382,569			
PA110066	PA110066-US-PCT	US	PCT	24/11/2011 00:00:00	24/11/2011 00:00:00	14,359,926	11/09/2014 00:00:00	2014-0254938-A1	
P0090015	P0090015-US-PCT	US	PCT	19/10/2011 00:00:00	19/10/2011 00:00:00	14,349,709	21/08/2014 00:00:00	2014-0232944-A1	
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P0080135	P0080135-US-NP	US	NP	27/10/2008 00:00:00	26/10/2009 00:00:00	12,589,610	29/04/2010 00:00:00	2010-0107202-A1	2009-0310031-A1
P0090213	P0090213-US-PCT	US	PCT	31/12/2009 00:00:00	02/12/2010 00:00:00	13,518,842	08/11/2012 00:00:00	2012-0281753-A1	2012-0281753-A1
RC488666	RC488666-US-NP	US	NP	30/01/2010 00:00:00	22/01/2010 00:00:00	10,712,010	10/11/2011 00:00:00	2011-0273529-A1	
RC488665	RC488665-US-NP	US	NP	19/12/1997 00:00:00	16/06/2000 00:00:00	09,581,141			09/06/2004 00:00:00
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RC488471	RC488471-US-NP	US	NP	13/11/1996 00:00:00	28/04/1997 00:00:00	09,297,415			07/11/2000 00:00:00
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RC488796	RC488796-US-NP	US	NP	18/12/1997 00:00:00	16/06/2000 00:00:00	09,581,109			24/04/2002 00:00:00
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RC488710	RC488710-US-PCT	US	PCT	02/10/1998 00:00:00	12/02/1998 00:00:00	09,808,335			05/12/2002 00:00:00
RC488729	RC488729-US-PCT	US	PCT	02/02/1998 00:00:00	12/02/1998 00:00:00	09,808,335			18/02/2004 00:00:00
RC489753	RC489753-US-PCT	US	PCT	20/02/1998 00:00:00	21/08/2000 00:00:00	10,980,454			10/08/2005 00:00:00
RC489751	RC489751-US-PCT	US	PCT	23/11/1998 00:00:00	12/11/2000 00:00:00	10,989,324			12/12/2002 00:00:00
RC490232	RC490232-US-PCT	US	PCT	32/11/1998 00:00:00	22/11/2000 00:00:00	10,130,859			25/09/2002 00:00:00
RC490231	RC490231-US-NP	US	NP	30/11/2001 00:00:00	26/11/2001 00:00:00	10,182,884	30/01/2003 00:00:00	2003-0020224-A1	14/11/2006 00:00:00
RC499650	RC499650-US-NP	US	NP	10/07/2002 00:00:00	10/07/2002 00:00:00	10,192,039	15/01/2004 00:00:00	2004-0008286-A1	02/05/2006 00:00:00
RC499217	RC499217-US-NP	US	NP	16/07/1999 00:00:00	12/06/2000 00:00:00	10,031,091			28/05/2013 00:00:00
RC499669	RC499669-US-NP	US	NP	10/09/1999 00:00:00	10/09/1999 00:00:00	09,384,358			12/11/2002 00:00:00
P0020121	P0020121-US-PCT	US	PCT	19/09/2000 00:00:00	19/09/2000 00:00:00	09,666,621			24/09/2002 00:00:00
P0030043	P0030043-US-PCT	US	PCT	17/04/2002 00:00:00	10/03/2003 00:00:00	10,511,555	17/11/2005 00:00:00	2005-0257123-A1	12/12/2006 00:00:00
P0020155	P0020155-US-PCT	US	PCT	03/01/2003 00:00:00	20/02/2003 00:00:00	10,546,791	28/06/2007 00:00:00	2007-0142492-A1	10/04/2012 00:00:00
P0020485	P0020485-US-PCT	US	PCT	24/04/2002 00:00:00	12/04/2003 00:00:00	10,512,358	11/08/2006 00:00:00	2006-0075159-A1	15/08/2011 00:00:00
P0020191	P0020191-US-PCT	US	PCT	04/12/2002 00:00:00	07/07/2003 00:00:00	10,537,113	14/09/2006 00:00:00	2006-0231344-A1	17/07/2007 00:00:00
P0020486	P0020486-US-PCT	US	PCT	26/04/2002 00:00:00	25/04/2003 00:00:00	10,512,325	27/10/2005 00:00:00	2005-0237899-A1	23/02/2010 00:00:00
P002067	P002067-US-PCT	US	PCT	03/12/2002 00:00:00	13/11/2003 00:00:00	10,537,083	16/03/2006 00:00:00	2006-0065620-A1	22/03/2011 00:00:00
P0020450	P0020450-US-PCT	US	PCT	27/03/2002 00:00:00	19/03/2003 00:00:00	10,509,047	04/08/2005 00:00:00	2005-0186651-A1	08/04/2008 00:00:00
P0030108	P0030108-US-PCT	US	PCT	07/11/2002 00:00:00	31/01/2003 00:00:00	10,459,927	18/05/2006 00:00:00	2006-0103760-A1	16/10/2007 00:00:00
P0030149	P0030149-US-NP	US	NP	27/07/2001 00:00:00	24/07/2002 00:00:00	10,949,021	23/09/2004 00:00:00	2004-0184548-A1	17/04/2012 00:00:00
P0030077	P0030077-US-PCT	US	PCT	23/05/2003 00:00:00	24/09/2004 00:00:00	10,949,021	31/03/2005 00:00:00	2005-0071873-A1	2005-0073356-A1
P0030058	P0030058-US-PCT	US	PCT	03/06/2002 00:00:00	01/05/2004 00:00:00	10,581,440	19/10/2006 00:00:00	2006-0233256-A1	04/01/2011 00:00:00
P0030005	P0030005-US-PCT	US	PCT	02/04/2004 00:00:00	28/05/2003 00:00:00	10,516,711	06/04/2006 00:00:00	2006-0075159-A1	10/08/2010 00:00:00
P0040304	P0040304-US-PCT	US	PCT	02/04/2004 00:00:00	31/03/2005 00:00:00	10,593,915	13/09/2007 00:00:00	2007-0211798-A1	14/02/2011 00:00:00
P0040102	P0040102-US-NP	US	NP	04/11/2005 00:00:00	19/10/2005 00:00:00	11,666,661	25/09/2008 00:00:00	2008-0232463-A1	29/10/2013 00:00:00
P0040102	P0040102-US-NP	US	NP	06/07/2004 00:00:00	29/06/2005 00:00:00	11,207,574	19/01/2006 00:00:00	2006-0013307-A1	21/09/2011 00:00:00
P0040080	P0040080-US-NP	US	NP	30/06/2004 00:00:00	28/06/2005 00:00:00	11,168,966	02/02/2006 00:00:00	2006-0222654-A1	28/04/2008 00:00:00
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P0070115	P0070115-US-PCT	US	PCT	27/09/2007 00:00:00	20/09/2007 00:00:00	11,992,619	03/09/2009 00:00:00	2009-0219304-A1	25/03/2013 00:00:00
P0060204	P0060204-US-PCT	US	PCT	22/10/2006 00:00:00	22/10/2006 00:00:00	12,311,668	04/02/2010 00:00:00	2010-0109652-A1	2011-0109652-A1
P0060228	P0060228-US-NP	US	NP	04/12/2006 00:00:00	04/12/2006 00:00:00	12,311,668	06/01/2011 00:00:00	2011-0001872-A1	21/01/2014 00:00:00
P0080023	P0080023-US-NP	US	NP	18/03/2008 00:00:00	03/03/2009 00:00:00	12,380,699	24/09/2009 00:00:00	2009-0238282-A1	31/12/2013 00:00:00
P0070224	P0070224-US-PCT	US	PCT	14/01/2008 00:00:00	14/01/2008 00:00:00	12,735,369	2010-0284844-A1	2010-0284844-A1	17/03/2015 00:00:00
P010096	P010096-US-NP	US	NP	24/06/2011 00:00:00	25/06/2012 00:00:00	13,651,645	27/12/2012 00:00:00	2012-0328262-A1	12/10/2013 00:00:00
P0100072	P0100072-US-PCT	US	PCT	01/04/2010 00:00:00	01/04/2011 0				

Family	Application	Country	Protection Type	Fam 1st Prior Fil Date	FILINGDATE	FILINGNUMBER	PUBLICATIONDATE	PUBLICATIONNUMBER	GRANTDATE	GRANTNUMBER
PE110127	PE110127-I-US-NT	US	PCT	10/12/2011 00:00:00	29/11/2012 00:00:00	14,361,414	06/11/2014 00:00:00	2014-0330897-A1		
PU090200	PU090200-I-US-INT	US	CNT	08/07/2009 00:00:00	05/05/2015 00:00:00	14,704,556	20/08/2015 00:00:00	2015-0232129-A1		
RC488116	RC488116-US-PT	US	PCT	05/02/2009 00:00:00	11/12/2009 00:00:00	11,132,209	00:00:00	24/11/2011 00:00:00		
RC488116	RC488116-US-PT	US	NP	18/03/1997 00:00:00	18/03/1997 00:00:00	08,819,970				
RC488541	RC488541-US-NP	US	NP	05/12/1997 00:00:00	05/06/2000 00:00:00	09,555,554				
RC488541	RC488541-US-NP	US	NP	19/12/1996 00:00:00	19/12/1996 00:00:00	08,759,633				
PP960308	PP960308-I-US-NP	US	NP	05/07/1996 00:00:00	30/06/1997 00:00:00	08,885,524				
PP960308	PP960308-I-US-NP	US	NP	17/04/1998 00:00:00	13/04/1999 00:00:00	09,280,624				
PP980092	PP980092-US-DIV11	US	DIV	14/12/1998 00:00:00	05/11/2002 00:00:00	10,288,097				
PP980092	PP980092-US-DIV11	US	DIV	16/07/1999 00:00:00	23/06/2000 00:00:00	09,602,981				
RC489380	RC489380-I-US-PT	US	PCT	05/07/2001 00:00:00	02/07/2002 00:00:00	10,187,577				
RC489380	RC489380-I-US-PT	US	PCT	18/11/1999 00:00:00	16/11/2004 00:00:00	10,129,949				
RC488079	RC488079-US-CA	US	CA	16/12/1996 00:00:00	16/12/1996 00:00:00	08,757,088				
PU102629	PU102629-US-CA	US	CA	12/04/2002 00:00:00	12/04/2002 00:00:00	10,122,712				
RC490192	RC490192-US-NP	US	NP	12/05/2000 00:00:00	30/04/2001 00:00:00	09,845,959				
PP100099	PP100099-US-NP	US	NP	15/02/2001 00:00:00	05/02/2002 00:00:00	10,057,562				
PP100099	PP100099-US-NP	US	NP	28/02/2003 00:00:00	28/02/2004 00:00:00	10,786,526				
PU030207	PU030207-US-NP	US	NP	02/06/2000 00:00:00	18/12/2000 00:00:00	09,739,198				
PU030207	PU030207-US-NP	US	NP	31/07/2002 00:00:00	17/07/2003 00:00:00	10,523,442				
PU020354	PU020354-US-PT	US	PT	25/07/2002 00:00:00	17/07/2003 00:00:00	10,522,270				
PU020354	PU020354-US-PT	US	PCT	10/11/2003 00:00:00	09/11/2004 00:00:00	10,578,952				
PU030295	PU030295-US-PT	US	PCT	07/05/2004 00:00:00	21/04/2005 00:00:00	11,579,975				
PU040121	PU040121-US-PT	US	PCT	18/10/2004 00:00:00	17/10/2005 00:00:00	11,232,920				
PP050224	PP050224-US-NP	US	NP	10/02/2005 00:00:00	31/01/2006 00:00:00	11,345,108				
PP050224	PP050224-US-NP	US	NP	08/12/2005 00:00:00	29/11/2006 00:00:00	12,086,074				
PP050195	PP050195-US-PT	US	PCT	17/01/2006 00:00:00	16/01/2007 00:00:00	11,653,512				
PP060101	PP060101-US-NP	US	NP	13/08/2007 00:00:00	12/08/2008 00:00:00	12,733,216				
PU070198	PU070198-US-PT	US	PCT	14/06/2007 00:00:00	14/06/2007 00:00:00	12,654,432				
PU070198	PU070198-US-PT	US	PCT	08/08/2008 00:00:00	08/08/2008 00:00:00	12,737,651				
PU070198	PU070198-US-PT	US	PCT	29/08/2008 00:00:00	04/05/2009 00:00:00	12,156,564				
PU070198	PU070198-US-PT	US	PCT	14/01/2008 00:00:00	14/01/2008 00:00:00	12,735,855				
PU070286	PU070286-US-PT	US	PCT	11/03/2008 00:00:00	11/08/2008 00:00:00	12,189,574				
PU050099	PU050099-US-DIV11	US	DIV	14/05/2008 00:00:00	26/02/2009 00:00:00	26,022,505 00:00:00				
PU101013	PU101013-US-PT	US	PCT	24/09/2010 00:00:00	22/09/2012 00:00:00	14,344,977				
PU100294	PU100294-US-PT	US	PCT	22/09/2010 00:00:00	22/10/2011 00:00:00	13,988,470				
PU100294	PU100294-US-PT	US	PCT	22/09/2010 00:00:00	12/09/2011 00:00:00	14,535,073				
PU100294	PU100294-US-PT	US	PCT	22/09/2010 00:00:00	12/09/2011 00:00:00	14,731,771				
PU100294	PU100294-US-PT	US	PCT	29/09/2008 00:00:00	28/08/2010 00:00:00	12,839,371				
PU100294	PU100294-US-PT	US	PCT	09/04/2008 00:00:00	21/01/2012 00:00:00	12,138,719				
PU100294	PU100294-US-PT	US	PCT	10/07/2008 00:00:00	23/06/2010 00:00:00	11,338,911				
PP100028	PP100028-US-PT	US	PT	09/04/2010 00:00:00	24/03/2011 00:00:00	13,025,441				
PP100028	PP100028-US-PT	US	PCT	11/10/2007 00:00:00	08/10/2008 00:00:00	12,724,124				
RC488502	RC488502-US-PT	US	PCT	12/06/1997 00:00:00	12/08/1997 00:00:00	08,911,525				
RC488502	RC488502-US-PT	US	PCT	12/06/1997 00:00:00	12/08/1997 00:00:00	08,911,526				
RC488916	RC488916-US-NP	US	NP	10/07/1997 00:00:00	09/04/1998 00:00:00	09,052,648				
RC488916	RC488916-US-NP	US	NP	16/10/1996 00:00:00	12/03/1999 00:00:00	08,961,410				
RC488916	RC488916-US-NP	US	NP	13/11/1996 00:00:00	12/11/1997 00:00:00	09,147,906				
PP960046	PP960046-US-NP	US	NP	18/06/1999 00:00:00	16/06/2000 00:00:00	09,595,105				
PP960046	PP960046-US-NP	US	NP	23/03/1999 00:00:00	26/02/1999 00:00:00	09,259,601				
PP960099	PP960099-US-NP	US	NP	28/12/1998 00:00:00	22/12/1999 00:00:00	09,882,544				
RC489003	RC489003-US-PT	US	PT	04/01/2001 00:00:00	04/01/2002 00:00:00	10,250,440				
RC489003	RC489003-US-PT	US	PCT	11/01/2001 00:00:00	11/01/2001 00:00:00	09,758,480				
PU100015	PU100015-US-PT	US	PT	22/06/2001 00:00:00	12/06/2002 00:00:00	10,170,266				
PU100015	PU100015-US-PT	US	PCT	26/09/2001 00:00:00	11/12/2001 00:00:00	10,014,563				
RC489854	RC489854-US-PT	US	PT	18/12/2001 00:00:00	07/06/2002 00:00:00	10,154,873				
RC489854	RC489854-US-PT	US	NP	13/08/1999 00:00:00	13/08/1999 00:00:00	09,374,024				
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PP000039	PP000039-US-PT	US	PT	28/07/2000 00:00:00	23/07/2001 00:00:00	10,343,990				
PP000039	PP000039-US-PT	US	PCT	06/12/2000 00:00:00	12/11/2003 00:00:00	10,536,055				
PU020483	PU020483-US-PT	US	PCT	06/12/2002 00:00:00	05/12/2003 00:00:00	10,522,114				
PU020483	PU020483-US-PT	US	PCT	25/09/2003 00:00:00	06/08/2004 00:00:00	10,912,833				
PU030324	PU030324-US-PT	US	PT	08/07/2003 00:00:00	08/07/2003 00:00:00	10,887,973				
PU030324	PU030324-US-PT	US	NP	09/03/2004 00:00:00	09/03/2004 00:00:00	10,559,577				
PU030114	PU030114-US-PT	US	PCT	19/07/2002 00:00:00	03/05/2005 00:00:00	11,638,825				
PU040184	PU040184-US-PT	US	PCT	18/06/2000 00:00:00	26/10/2005 00:00:00	11,659,482				
PU040298	PU040298-US-PT	US	PCT	27/08/2000 00:00:00	04/08/2005 00:00:00	11,659,773				
GRSCHA0001	GRSCHA0001-US-NP	US	NP	15/01/2006 00:00:00	05/12/1999 00:00:00	09,231,823				
PA060003	PA060003-US-PT	US	PT	13/01/2006 00:00:00	05/12/2006 00:00:00	12,087,558				
PU070161	PU070161-US-PT	US	PCT	28/06/2007 00:00:00	24/06/2008 00:00:00	12,452,354				
PU070203	PU070203-US-PT	US	PCT	27/04/2007 00:00:00	25/04/2008 00:00:00	12,150,337				
PU060223	PU060223-US-PT	US	PCT	20/12/2006 00:00:00	20/12/2006 00:00:00	12,448,288				
PU080084	PU080084-US-PT	US	PCT	24/06/2008 00:00:00	24/06/2008 00:00:00	12,737,728				
PU110012	PU110012-US-PT	US	PCT	10/01/2012 00:00:00	10/01/2012 00:00:00	13,977,850				

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PF110151	PF110151-US-NP	US	NP	09/12/2010 00:00:00	28/11/2012 00:00:00	13/687828	18/09/2013 00:00:00	2013-0147291-41		
PF110193	PF110193-US-PCT	US	PCT	13/01/2012 00:00:00	03/01/2012 00:00:00	14/3127012	01/01/2015 00:00:00	2015-0006928-41		
PF110137	PF110137-US-PCT	US	PCT	06/10/2011 00:00:00	24/09/2012 00:00:00	14/349513	01/01/2015 00:00:00	2015-0006657-41		
PF110198	PF110198-US-PCT	US	PCT	14/12/2009 00:00:00	08/12/2010 00:00:00	13/508562	06/09/2012 00:00:00	2012-0224659-41		
PJ090171	PJ090171-US-PCT	US	PCT	13/11/2009 00:00:00	13/11/2009 00:00:00	12/938874	25/08/2011 00:00:00	2011-0206138-41		
PJ090172	PJ090172-US-PCT	US	PCT	23/12/2009 00:00:00	23/12/2009 00:00:00	12/655098	23/08/2011 00:00:00	2011-0489077-41		
RC488132	RC488132-US-NP	US	NP	18/03/1997 00:00:00	18/03/1997 00:00:00	08/818591				
RC488479	RC488479-US-NP	US	NP	15/11/1996 00:00:00	15/11/1996 00:00:00	08/749701				
RC488393	RC488393-US-NP	US	NP	13/09/1996 00:00:00	13/09/1996 00:00:00	08/713380				
RC488354	RC488354-US-PCT	US	PCT	20/12/1996 00:00:00	17/12/1997 00:00:00	09/319685				
PF970045	PF970045-US-NP	US	NP	28/07/1997 00:00:00	02/07/1998 00:00:00	09/110085				
PF970029	PF970029-US-NP	US	NP	17/02/1997 00:00:00	16/02/1998 00:00:00	09/367623				
RC489511	RC489511-US-NP	US	NP	03/12/1999 00:00:00	03/12/1999 00:00:00	09/128511				
RC489789	RC489789-US-NP	US	NP	16/02/2000 00:00:00	16/02/2000 00:00:00	09/505159				
PF020119	PF020119-US-NP	US	NP	20/09/2002 00:00:00	27/10/2003 00:00:00	10/535880	15/04/2004 00:00:00	2004-0065915-41		
PF020481	PF020481-US-PCT	US	PCT	25/11/2002 00:00:00	27/10/2003 00:00:00	10/535880	23/03/2006 00:00:00	2006-0082295-41		
PJ020193	PJ020193-US-NP	US	NP	29/04/2002 00:00:00	09/01/2003 00:00:00	10/339421	30/10/2003 00:00:00	2003-0204776-41		
PF020105	PF020105-US-PCT	US	PCT	23/08/2002 00:00:00	04/08/2003 00:00:00	10/525181	05/01/2006 00:00:00	2006-0001587-41		
PJ030069	PJ030069-US-NP	US	NP	01/07/2003 00:00:00	05/02/2004 00:00:00	10/879642	27/01/2005 00:00:00	2005-0022544-41		
PJ030125	PJ030125-US-PCT	US	PCT	24/04/2003 00:00:00	05/02/2004 00:00:00	10/538910	14/12/2006 00:00:00	2006-0299944-41		
PJ030136	PJ030136-US-PCT	US	PCT	08/08/2003 00:00:00	07/08/2004 00:00:00	10/485772	03/02/2005 00:00:00	2005-0282222-41		
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PJ050006	PJ050006-US-PCT	US	PCT	20/01/2005 00:00:00	20/01/2005 00:00:00	11/795537	29/01/2009 00:00:00	2009-0027565-41		
PJ050002	PJ050002-US-PCT	US	PCT	05/01/2004 00:00:00	22/11/2004 00:00:00	10/594649	16/08/2007 00:00:00	2007-0192746-41		
PF060121	PF060121-US-PCT	US	PCT	08/02/2006 00:00:00	31/01/2007 00:00:00	12/223434	15/01/2009 00:00:00	2009-0016439-41		
PJ060499	PJ060499-US-NP	US	NP	06/02/2006 00:00:00	30/01/2007 00:00:00	12/087637	14/05/2009 00:00:00	2009-0122860-41		
PF060090	PF060090-US-NP	US	NP	19/05/2005 00:00:00	16/02/2006 00:00:00	11/455348	23/11/2005 00:00:00	2005-0025218-41		
PF060179	PF060179-US-PCT	US	PCT	27/02/2006 00:00:00	14/02/2007 00:00:00	12/282428	15/01/2009 00:00:00	2009-0064472-41		
PJ060126	PJ060126-US-PCT	US	PCT	29/09/2006 00:00:00	26/06/2007 00:00:00	12/311452	31/12/2009 00:00:00	2009-0324121-41		
PJ060129	PJ060129-US-PCT	US	PCT	28/06/2006 00:00:00	04/10/2006 00:00:00	12/320850	23/07/2009 00:00:00	2009-0185110-41		
PJ060129	PJ060129-US-PCT	US	PCT	07/11/2006 00:00:00	13/12/2006 00:00:00	12/312994	11/03/2010 00:00:00	2010-0064316-41		
PF060125	PF060125-US-NP	US	NP	20/03/2008 00:00:00	07/11/2008 00:00:00	12/728033	06/01/2011 00:00:00	2011-0004902-41		
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PJ110106	PJ110106-US-PCT	US	PCT	12/02/2010 00:00:00	12/02/2010 00:00:00	13/823047	11/09/2013 00:00:00	2013-0184284-41		
PJ110148	PJ110148-US-PCT	US	PCT	24/08/2011 00:00:00	26/08/2011 00:00:00	14/256918	03/07/2014 00:00:00	2014-0184244-41		
PF020048	PF020048-US-INT	US	INT	16/05/2012 00:00:00	09/12/2014 00:00:00	14/565002				
PF110164	PF110164-US-NP	US	NP	20/10/2012 00:00:00	19/10/2012 00:00:00	13/656154	31/10/2013 00:00:00	2013-0282701-41		
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PF100115	PF100115-US-NP	US	NP	15/02/2012 00:00:00	14/02/2012 00:00:00	13/373000	16/08/2012 00:00:00	2012-0205659-41		
PJ080117	PJ080117-US-PCT	US	PCT	04/09/2008 00:00:00	01/09/2009 00:00:00	12/727945	30/06/2012 00:00:00	2012-0158320-41		
PJ080191	PJ080191-US-PCT	US	PCT	14/12/2008 00:00:00	08/12/2010 00:00:00	13/515609	04/10/2012 00:00:00	2012-0249869-41		
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PF090055	PF090055-US-PCT	US	PCT	19/05/1995 00:00:00	07/05/2010 00:00:00	09/854672	01/03/2012 00:00:00	2012-0049655-41		
RC488397	RC488397-US-INT	US	INT	15/09/2000 00:00:00	24/05/2001 00:00:00	09/854672	14/02/2002 00:00:00	2002-0018638-41		
RC488535	RC488535-US-NP	US	NP	23/12/1997 00:00:00	22/06/2000 00:00:00	09/592186				
RC488503	RC488503-US-NP	US	NP	12/08/1997 00:00:00	12/08/1997 00:00:00	08/908116				
RC489041	RC489041-US-NP	US	NP	13/07/1998 00:00:00	12/11/1998 00:00:00	09/150390				
PF970029	PF970029-US-NP	US	NP	23/05/1998 00:00:00	21/05/1998 00:00:00	09/082980				
PF990603	PF990603-US-NP	US	NP	15/05/1996 00:00:00	01/05/1997 00:00:00	08/847225				
PF990606	PF990606-US-NP	US	NP	25/10/1999 00:00:00	25/10/2000 00:00:00	09/696423				
RC487493	RC487493-US-NP	US	NP	19/03/2000 00:00:00	19/03/1995 00:00:00	08/618820				
RC489098	RC489098-US-NP	US	NP	06/06/2000 00:00:00	06/06/2000 00:00:00	09/589050				
PJ010105	PJ010105-US-NP	US	NP	28/02/2001 00:00:00	19/09/2001 00:00:00	09/656332	29/08/2002 00:00:00	2002-0118297-41		
PJ010130	PJ010130-US-NP	US	NP	12/06/2001 00:00:00	12/06/2001 00:00:00	09/679573	12/12/2002 00:00:00	2002-0118894-41		
PJ020006	PJ020006-US-PCT	US	PCT	25/04/2004 00:00:00	20/04/2004 00:00:00	10/554262	14/09/2005 00:00:00	2005-0203136-41		
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RC490425	RC490425-US-PCT	US	PCT	28/08/2000 00:00:00	27/08/2001 00:00:00	10/353380	26/02/2004 00:00:00	2004-0037358-41		
PF020121	PF020121-US-PCT	US	PCT	27/09/2002 00:00:00	19/09/2003 00:00:00	10/528997	02/02/2005 00:00:00	2005-0022865-41		
PJ040209	PJ040209-US-PCT	US	PCT	10/08/2004 00:00:00	10/08/2004 00:00:00	11/659774	22/11/2007 00:00:00	2007-0256409-41		
PF040134	PF040134-US-NP	US	NP	07/02/2005 00:00:00	07/02/2005 00:00:00	11/863491	10/06/2010 00:00:00	2010-0141851-41		
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PF050221	PF050221-US-PCT	US	PCT	12/04/2005 00:00:00	30/03/2006 00:00:00	12/035594	26/10/2006 00:00:00	2006-0238387-41		
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PJ060137	PJ060137-US-PCT	US	PCT	31/07/2008 00:00:00	24/07/2009 00:00:00	12/460764	04/02/2010 00:00:00	2010-0007992-41		
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PF100015	PF100015-US-PCT	US	PCT	28/09/2012 00:00:00	16/02/2011 00:00:00	13/579754	14/08/2014 00:00:00	2014-0229485-41		
				19/02/2010 00:00:00	16/02/2011 00:00:00	13/579754	06/12/2012 00:00:00	2012-0311174-41		



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PE110027	PE110027-US-PT	US	PCT	02/11/2011 00:00:00	30/07/2011 00:00:00	14355537	02/10/2014 00:00:00	2014-0293003-A1	06/05/2014 00:00:00	8278404
RU100090	RU100090-US-PT	US	PCT	09/09/2011 00:00:00	09/09/2011 00:00:00	13820801	27/06/2013 00:00:00	2013-0163623-A1	27/06/2013 00:00:00	7269270
PO110048	PO110048-US-NP	US	NP	24/09/2012 00:00:00	19/05/2013 00:00:00	12697418	28/11/2013 00:00:00	2013-031440-A1	12/01/2014 00:00:00	6653952
RU080129	RU080129-US-PT	US	PCT	12/11/2009 00:00:00	10/11/2009 00:00:00	13798643	08/09/2011 00:00:00	2011-0216828-A1	2011-031135-A1	06/05/2014 00:00:00
PF100010	PF100010-US-PT	US	PCT	06/02/2009 00:00:00	05/02/2010 00:00:00	13782296	22/12/2011 00:00:00	2011-031135-A1	2011-031135-A1	06/05/2014 00:00:00
RU090117	RU090117-US-PT	US	PCT	11/02/2009 00:00:00	09/02/2010 00:00:00	12658464	19/08/2011 00:00:00	2010-0208993-A1	2010-0208993-A1	08/07/2014 00:00:00
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RCAB88513	RCAB88513-US-PT	US	PCT	07/01/1998 00:00:00	07/01/1999 00:00:00	09582451				09/11/2014 00:00:00
RCAB88226	RCAB88226-US-PT	US	PCT	16/10/1996 00:00:00	12/03/1999 00:00:00	09269246				26/02/2010 00:00:00
RUAB82800	RUAB82800-US-NP	US	NP	19/12/1996 00:00:00	19/12/1996 00:00:00	087207070				06/08/864
RU020350	RU020350-US-NP	US	NP	29/07/2002 00:00:00	29/07/2002 00:00:00	10207614	29/01/2004 00:00:00	2004-0017845-A1	05/06/2007 00:00:00	11072000 00:00:00
PF990089	PF990089-US-NP	US	NP	21/04/1999 00:00:00	18/12/2002 00:00:00	09729148	08/11/2001 00:00:00	2001-0038421-A1	07/10/2003 00:00:00	6630962
RU020107	RU020107-US-NP	US	NP	17/02/2000 00:00:00	10/12/2005 00:00:00	11024255	12/10/2004 00:00:00	2003-0198286-A1	21/09/2004 00:00:00	6759440
RCAB89228	RCAB89228-US-PT	US	PCT	02/06/2000 00:00:00	31/05/2001 00:00:00	10266589	11/11/2003 00:00:00	2003-0227573-A1	28/02/2006 00:00:00	6706161
RCAB89117	RCAB89117-US-PT	US	PCT	10/11/1999 00:00:00	29/05/2000 00:00:00	09606897				15/02/2005 00:00:00
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RU030042	RU030042-US-NP	US	NP	24/01/2003 00:00:00	19/09/2002 00:00:00	10450882	29/07/2004 00:00:00	2004-0148528-A1	04/01/2006 00:00:00	7051384
RU010182	RU010182-US-PT	US	PCT	19/09/2001 00:00:00	16/10/2003 00:00:00	10450109	30/03/2006 00:00:00	2006-0065944-A1	28/03/2006 00:00:00	6839779
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PU040071	PU040071-US-NP	US	NP	09/08/2000 00:00:00	09/08/2000 00:00:00	11120604				27/12/2005 00:00:00
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PU050143	PU050143-US-PT	US	PCT	01/12/2005 00:00:00	06/11/2006 00:00:00	127085736	16/04/2009 00:00:00	2009-0100467-A1	05/08/2014 00:00:00	8799446
PU050126	PU050126-US-PT	US	PCT	27/05/2005 00:00:00	03/05/2006 00:00:00	11922070	12/02/2009 00:00:00	2009-0081121-A1	26/02/2013 00:00:00	8385432
PU050185	PU050185-US-PT	US	PCT	30/06/2005 00:00:00	30/06/2005 00:00:00	11922470	28/05/2009 00:00:00	2009-0134774-A1	08/05/2012 00:00:00	8174177
PU070182	PU070182-US-PT	US	PCT	06/08/2007 00:00:00	07/07/2008 00:00:00	12779300	03/06/2011 00:00:00	2010-0155591-A1		
RU080087	RU080087-US-PT	US	PCT	12/06/2008 00:00:00	05/06/2009 00:00:00	12757109	05/05/2011 00:00:00	2011-0103464-A1		
RU080066	RU080066-US-PT	US	PCT	28/06/2007 00:00:00	24/06/2008 00:00:00	12745290	26/06/2011 00:00:00	2010-0155588-A1		
RU050143	RU050143-US-PT	US	PCT	10/03/2008 00:00:00	30/01/2009 00:00:00	12756097	06/01/2011 00:00:00	2011-0126807-A1		
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RU090124	RU090124-US-NP	US	NP	09/12/1996 00:00:00	09/12/1996 00:00:00	08725842				18/02/2013 00:00:00
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FE030012	FE030012-US-NP	US	NP	30/01/2003 00:00:00	18/01/2004 00:00:00	11076759	13/05/2004 00:00:00	2004-00934517-A1		04/04/2006 00:00:00
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RU040059	RU040059-US-PT	US	PCT	16/09/2004 00:00:00	14/09/2005 00:00:00	11662405	22/05/2008 00:00:00	2008-01112926-A1		26/02/2013 00:00:00
RU040251	RU040251-US-PT	US	PCT	16/09/2004 00:00:00	14/09/2005 00:00:00	11662405	01/05/2008 00:00:00	2008-0111471-A1		18/09/2012 00:00:00
RU040258	RU040258-US-PT	US	PCT	24/06/2004 00:00:00	23/05/2005 00:00:00	11652020	27/12/2007 00:00:00	2007-0297510-A1		04/09/2012 00:00:00
RU050132	RU050132-US-NP	US	NP	14/03/2003 00:00:00	14/03/2003 00:00:00	110390146				05/04/2011 00:00:00
PE050104	PE050104-US-NP	US	NP	17/09/2003 00:00:00	13/09/2005 00:00:00	11225246	23/03/2006 00:00:00	2006-0061602-A1		15/09/2015 00:00:00
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RU050278	RU050278-US-PT	US	PCT	02/02/2006 00:00:00	31/01/2007 00:00:00	11437395	08/01/2009 00:00:00	2009-0010330-A1		30/07/2013 00:00:00
RU070070	RU070070-US-PT	US	PCT	26/01/2006 00:00:00	26/01/2006 00:00:00	12723144	09/09/2010 00:00:00	2010-0225807-A1		8498936
FE070045	FE070045-US-NP	US	NP	21/05/2007 00:00:00	20/05/2008 00:00:00	12715430	18/03/2010 00:00:00	2010-0071009-A1		15/04/2014 00:00:00
FE070073	FE070073-US-PT	US	PCT	27/06/2007 00:00:00	26/06/2008 00:00:00	12745294	30/12/2010 00:00:00	2008-0320067-A1		22/11/2014 00:00:00
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RU070460	RU070460-US-PT	US	PCT	16/10/2007 00:00:00	14/10/2008 00:00:00	12774405	02/09/2010 00:00:00	2010-0207951-A1		11/08/2015 00:00:00
RU110124	RU110124-US-PT	US	PCT	15/02/2012 00:00:00	15/02/2012 00:00:00	14371313	01/07/2015 00:00:00	2015-0007208-A1		05/03/2013 00:00:00
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RU110034	RU110034-US-CNT	US	CNT	15/02/2011 00:00:00	25/03/2015 00:00:00	143562171	16/07/2015 00:00:00	2015-0204177-A1		2015-0204177-A1
FE110025	FE110025-US-PT	US	PCT	13/12/2011 00:00:00	13/06/2012 00:00:00	143562371	24/07/2014 00:00:00	2014-0204176-A1		2014-0204176-A1
FE110048	FE110048-US-PT	US	PCT	20/06/2011 00:00:00	19/06/2012 00:00:00	143562371	14/06/2012 00:00:00	2012-0150849-A1		2012-0150849-A1
PE090069	PE090069-US-PT	US	PCT	19/06/2009 00:00:00	01/09/2009 00:00:00	13798123	14/07/2011 00:00:00	2011-0170615-A1		2011-0170615-A1
RU080161	RU080161-US-PT	US	PCT	18/09/2009 00:00:00	18/06/2010 00:00:00	09425404	10/05/2012 00:00:00	2012-0113993-A1		09/06/2015 00:00:00
RU0889207	RU0889207-US-PT	US	PCT	19/10/1998 00:00:00	22/10/1999 00:00:00	09425404				05/12/2000 00:00:00
PE090706	PE090706-US-NP	US	NP	30/10/1999 00:00:00	15/10/1998 00:00:00	099173219				16/11/1999 00:00:00
PE090706	PE090706-US-NP	US	NP	29/11/1999 00:00:00	27/11/2000 00:00:00	099727264	05/12/2002 00:00:00	2002-0181591-A1		24/02

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P0030038	P0030038-US-PCT	US	PCT	23/01/2003 00:00:00	23/01/2003 00:00:00	101542668	25/05/2006 00:00:00	2006-0198931-A1	05/05/2009 00:00:00
P0020066	P0020066-US-PCT	US	PCT	27/03/2002 00:00:00	19/03/2003 00:00:00	105092915	13/10/2005 00:00:00	2005-0255672-A1	11/09/2007 00:00:00
P0000011	P0000011-US-CP11	US	CP	11/12/2000 00:00:00	28/11/2001 00:00:00	099958481	06/06/2002 00:00:00	2002-0063767-A1	06/02/2007 00:00:00
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PU050094	PU050094-US-NP	US	NP	14/05/2006 00:00:00	22/06/2006 00:00:00	11,585,648	07/07/2008 00:00:00	2008-0034397-A1	29/03/2011 00:00:00	7912925
PU050069	PU050069-US-NP	US	NP	03/08/2006 00:00:00	22/06/2006 00:00:00	11,472,860	08/02/2007 00:00:00	2007-0033606-A1	08/10/2013 00:00:00	8552727
PU050515	PU050515-US-PCT	US	PCT	14/04/2006 00:00:00	12/03/2006 00:00:00	11,887,808	11/03/2009 00:00:00	2009-0074070-A1	2010-0061694-A1	8274456
PU060241	PU060241-US-PCT	US	PCT	14/12/2006 00:00:00	14/12/2006 00:00:00	11,170,854	11/09/2010 00:00:00	2010-0061694-A1	25/09/2013 00:00:00	8542736
PU060201	PU060201-US-PCT	US	PCT	18/10/2006 00:00:00	11/10/2007 00:00:00	12,311,036	24/09/2009 00:00:00	2009-0218272-A1	25/01/2011 00:00:00	7876240
PF060106	PF060106-US-PCT	US	PCT	18/04/2006 00:00:00	05/04/2007 00:00:00	12,225,643	03/08/2009 00:00:00	2009-0219127-A1		
PU060033	PU060033-US-PCT	US	PCT	12/09/2006 00:00:00	12/09/2007 00:00:00	12,310,828	11/03/2011 00:00:00	2011-0064330-A1	06/03/2012 00:00:00	8131876
PF060085	PF060085-US-PCT	US	PCT	15/06/2006 00:00:00	16/06/2006 00:00:00	12,227,623	09/07/2009 00:00:00	2009-0174822-A1	02/12/2014 00:00:00	8902369
PU070133	PU070133-US-NP	US	NP	13/12/2007 00:00:00	13/06/2007 00:00:00	12,308,515	23/09/2010 00:00:00	2010-0242080-A1	20/03/2012 00:00:00	8139153
PU070133	PU070133-US-PCT	US	PCT	14/01/2008 00:00:00	14/01/2008 00:00:00	12,735,274	11/11/2010 00:00:00	2010-0283903-A1	15/10/2013 00:00:00	8559563
PU080047	PU080047-US-PCT	US	PCT	11/04/2009 00:00:00	09/04/2009 00:00:00	12,736,512	26/07/2012 00:00:00	2012-0189051-A1		
PU101021	PU101021-US-PCT	US	PCT	25/03/2008 00:00:00	25/03/2008 00:00:00	12,736,512	20/01/2011 00:00:00	2011-0013426-A1	16/04/2013 00:00:00	8422522
PU101034	PU101034-US-PCT	US	PCT	04/01/2012 00:00:00	20/12/2012 00:00:00	14,366,558				
PU100132	PU100132-US-PCT	US	PCT	17/05/2010 00:00:00	11/05/2011 00:00:00	13,658,118	07/03/2013 00:00:00	2013-0068421-A1		
PF120006	PF120006-US-PCT	US	PCT	13/01/2012 00:00:00	10/01/2013 00:00:00	14,372,021				
PF110177	PF110177-US-NP	US	NP	06/10/2012 00:00:00	12/02/2012 00:00:00	13,390,936	11/07/2013 00:00:00	2013-0176388-A1	18/08/2015 00:00:00	9113142
PF090111	PF090111-US-PCT	US	PCT	30/10/2009 00:00:00	26/10/2010 00:00:00	13,506,836	23/08/2012 00:00:00	2012-0213295-A1		
PF090044	PF090044-US-NP	US	NP	05/05/2010 00:00:00	05/05/2010 00:00:00	12,799,946	15/07/2012 00:00:00	2012-0063664-A1	17/12/2013 00:00:00	8611698
PF080115	PF080115-US-NP	US	NP	02/10/2008 00:00:00	30/09/2009 00:00:00	12,566,931	29/07/2010 00:00:00	2010-0188430-A1	11/09/2013 00:00:00	8245602
PU090212	PU090212-US-PCT	US	PCT	13/01/2010 00:00:00	13/01/2011 00:00:00	13,521,990	03/01/2013 00:00:00	2013-0002443-A1		
PU100018	PU100018-US-PCT	US	PCT	29/01/2010 00:00:00	28/01/2011 00:00:00	13,575,803	29/11/2012 00:00:00	2012-0300843-A1		
PU100014	PU100014-US-PCT	US	PCT	22/01/2010 00:00:00	21/01/2011 00:00:00	13,522,024	05/11/2012 00:00:00	2012-0288015-A1		
PU090032	PU090032-US-PCT	US	PCT	12/03/2009 00:00:00	10/03/2010 00:00:00	13,138,626	05/10/2012 00:00:00	2012-0002722-A1		
RCAB88539	RCAB88539-US-NP	US	NP	16/04/1997 00:00:00	16/04/1997 00:00:00	08,838,301				
PF060092	PF060092-US-NP	US	NP	22/12/1998 00:00:00	21/12/1998 00:00:00	09,469,117			10/11/1998 00:00:00	5833561
RCAB89038	RCAB89038-US-NP	US	NP	14/12/1998 00:00:00	14/12/1998 00:00:00	09,466,611			07/10/2003 00:00:00	6631164
RCAB89038	RCAB89038-US-PCT	US	PCT	16/05/1998 00:00:00	15/05/1999 00:00:00	09,466,611				

Family	Application	Country	Protection Type	Fam 1st Prior Fil Date	FILINGDATE	FILINGNUMBER	PUBLICATIONDATE	PUBLICATIONNUMBER	GRANTDATE	GRANTNUMBER
P00000175	P00000175-US-PCT	US	PCT	20/12/2000 00:00:00	18/12/2001 00:00:00	10,451605	08/07/2004 00:00:00	2004-0130860-A1	25/12/2007 00:00:00	7312830
P0000068	P0000068-US-PCT	US	PCT	27/11/2000 00:00:00	19/11/2001 00:00:00	10,432712	01/07/2004 00:00:00	2004-0124871-A1	12/02/2006 00:00:00	7003602
P0010073	P0010073-US-PCT	US	PCT	06/12/2001 00:00:00	23/11/2002 00:00:00	10,487734	20/01/2005 00:00:00	2005-0015241-A1	08/01/2008 00:00:00	7318023
P010163	P010163-US-PCT	US	PCT	02/08/2001 00:00:00	02/08/2001 00:00:00	10,484899	30/09/2004 00:00:00	2004-0192209-A1	08/05/2007 00:00:00	7215939
P0103320	P0103320-US-NP	US	NP	31/01/2002 00:00:00	22/01/2003 00:00:00	10,348626	11/01/2003 00:00:00	2003-0142232-A1	01/05/2007 00:00:00	7212247
P040213	P040213-US-PCT	US	PCT	26/08/2003 00:00:00	24/08/2004 00:00:00	10,569319	27/07/2006 00:00:00	2007-0009044-A1	27/12/2011 00:00:00	8085846
P030281	P030281-US-PCT	US	PCT	16/10/2002 00:00:00	16/10/2003 00:00:00	10,531121	04/08/2004 00:00:00	2006-0164868-A1	22/08/2006 00:00:00	7095630
P030249	P030249-US-NP	US	NP	20/08/2003 00:00:00	04/08/2004 00:00:00	10,566881	16/11/2006 00:00:00	2006-0266871-A1	07/06/2011 00:00:00	7952469
P030909	P030909-US-PCT	US	PCT	11/05/2000 00:00:00	09/08/2000 00:00:00	09,659736	08/01/2009 00:00:00	2009-0010059-A1	16/09/2008 00:00:00	7426558
P030225	P030225-US-NP	US	NP	11/04/2005 00:00:00	21/02/2006 00:00:00	11,887869	05/04/2007 00:00:00	2007-0079246-A1	03/11/2009 00:00:00	7613023
P050155	P050155-US-PCT	US	PCT	08/09/2005 00:00:00	30/08/2006 00:00:00	11,513085	18/11/2010 00:00:00	2010-0289810-A1	20/08/2013 00:00:00	8515482
P070129	P070129-US-PCT	US	PCT	03/04/2007 00:00:00	14/12/2007 00:00:00	12,450621	22/07/2010 00:00:00	2010-0184386-A1	20/03/2012 00:00:00	8138664
P060120	P060120-US-PCT	US	PCT	27/06/2007 00:00:00	27/06/2007 00:00:00	12,664503	16/09/2010 00:00:00	2010-0231117-A1		
P060127	P060127-US-PCT	US	PCT	21/06/2006 00:00:00	15/06/2007 00:00:00	12,308590	31/12/2009 00:00:00	2009-0323803-A1		
P010072	P010072-US-CNT	US	CNT	10/07/2006 00:00:00	12/08/2015 00:00:00	14,824842				
P0100250	P0100250-US-PCT	US	PCT	09/12/2010 00:00:00	08/09/2011 00:00:00	13,991045	26/09/2013 00:00:00	2013-0250171-A1		
PF110125	PF110125-US-PCT	US	PCT	26/09/2011 00:00:00	30/08/2012 00:00:00	14,346719	04/09/2014 00:00:00	2014-0250231-A1		
PF080081	PF080081-US-PCT	US	PCT	26/06/2008 00:00:00	26/06/2009 00:00:00	12,737204	21/04/2012 00:00:00	2011-0080125-A1		
PF080005	PF080005-US-PCT	US	PCT	15/01/2010 00:00:00	14/01/2011 00:00:00	13,519432	15/11/2012 00:00:00	2012-0288003-A1		
PF090040	PF090040-US-PCT	US	PCT	23/04/2009 00:00:00	07/01/2010 00:00:00	13,138901	17/05/2012 00:00:00	2012-0121010-A1	28/07/2015 00:00:00	9094716
PF090009	PF090009-US-PCT	US	PCT	26/01/2009 00:00:00	10/07/2009 00:00:00	13,138262	17/11/2011 00:00:00	2011-0279733-A1		
PF090025	PF090025-US-PCT	US	PCT	11/02/2009 00:00:00	09/02/2010 00:00:00	13,148819	08/03/2012 00:00:00	2012-0065906-A1		