

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT8389272

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
XPERI HOLDING CORPORATION	09/26/2022
RECEIVING PARTY DATA	
Name:	ADEIA IMAGING LLC
Street Address:	3025 ORCHARD PARKWAY
City:	SAN JOSE
State/Country:	CALIFORNIA
Postal Code:	95134
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	18190760
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	P16-05432.CON2
NAME OF SUBMITTER:	EMMU ZHOU
SIGNATURE:	/Emmu Zhou/
DATE SIGNED:	01/18/2024
Total Attachments: 28	
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DEED OF ASSIGNMENT

THIS DEED OF ASSIGNMENT ("Assignment"), EFFECTIVE AS OF August 3, 2022 IS MADE BY AND BETWEEN

Xperi Holding Corporation (hereinafter "ASSIGNOR"), a Delaware corporation with its principal place of business at 3025 Orchard Parkway, San Jose, CA 95134

AND

Adeia Imaging LLC (formerly known as DOC MEMS Holding LLC) (hereinafter "ASSIGNEE"), a Delaware corporation with its principal place of business at 3025 Orchard Parkway, San Jose, CA 95134

WHEREAS:

A ASSIGNOR is the sole owner in respect of the patents and patent applications listed in the attached Appendix (hereinafter "the PATENTS"); and

B ASSIGNEE is desirous of acquiring all of the worldwide right, title and interest in and to the PATENTS.

NOW, THEREFORE, for good and valuable consideration, by ASSIGNEE to ASSIGNOR, receipt of which is hereby acknowledged, ASSIGNOR has assigned and transferred, and does hereby assign and transfer to ASSIGNEE all of the worldwide right, title and interest in (i) the PATENTS, including all rights of priority; (ii) all reissues, divisionals, continuations, continuations-in-part, extensions, renewals, and reexaminations and foreign counterparts thereof, and other patents, patent applications, certificates of invention other governmental grants, including statutory invention registrations resulting from the PATENTS; (iii) all items in any of the foregoing categories, whether or not claims in any of the foregoing have been rejected, withdrawn, cancelled, or the like, (iv) all rights to apply in any or all countries of the world for patents, certificates of invention, utility models, industrial design protections, design patent protections, or other governmental grants or issuances of any type related to any item in any of the foregoing categories, including, without limitation, under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement, or understanding, (v) all worldwide legal rights, whether or not filed, perfected, registered or recorded, that may exist under the laws of any jurisdiction to and under such PATENTS, including the right and power to assert, defend and recover title to and collect damages for any past, present or future infringement, misappropriation, impairment or unauthorized use of the PATENTS, the right and power to exclude others from practicing the PATENTS, and the right and power to seek temporary restraining orders, preliminary and permanent injunctions and other equitable relief for infringement or misappropriation of the PATENTS and (vi) all claims for royalties and other payments, accounting and information, and other secondary claims arising out of the past and current infringement, the same to be held and enjoyed by ASSIGNEE for its own use and enjoyment, and for the use and enjoyment of its successors, assigns and other legal representatives, to the end of the term or terms of said PATENTS granted or reissued or reexamined as fully and entirely as the same would have been held and enjoyed by ASSIGNOR, if this assignment had not been made. ASSIGNOR also hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents or certificates of invention which may be granted upon any of the PATENTS in the name of ASSIGNEE as the assignee to the entire interest therein.

IN WITNESS WHEREOF, ASSIGNOR has caused these presents to be signed by its duly appointed officer having full authority to convey its property.

And if the issue date and/or patent number of any of the PATENTS is unknown to ASSIGNOR and ASSIGNEE at the time this Assignment is executed, ASSIGNOR does hereby authorize its attorneys to insert on this Assignment the issue date and patent number of said any patent when known.

ASSIGNOR hereby declares that ASSIGNEE may take the steps for recordal of this assignment in the sole name of ASSIGNEE.

ASSIGNOR hereby undertakes that it shall, without further consideration, but at the expense of BUYER, execute all documents and do all such acts and things as BUYER may in its absolute discretion consider necessary or desirable to enable Letters Patent or any other form of protection to be issued in respect of any of said PATENTS and the inventions disclosed therein in any part

of the world and to enable or to assist BUYER to defend oppositions thereto, to maintain the PATENTS and to prosecute for the infringement thereof.

SIGNED for and on behalf of
ASSIGNOR, Xperi Holding Corporation

By John Allen / on Sep 26, 2022
(Signature) (Date)

John Allen, Senior Vice President & Corporate Controller
(Name and Title)

SIGNED for and on behalf of
ASSIGNEE, Adeia Imaging LLC

By Paul Davis / on Sep 25, 2022
(Signature) (Date)

Paul Davis, President & Secretary
(Name and Title)

APPENDIX

Listed Transferred Assets

[See attached]

Xperi Docket #	Country Code	Patent Status	Application #	Filing Date	Publication #	Publication Date	Patent #	Grant Date	Title
0002-0101-DE-01	DE	In Force	04763763.2	8/3/2004	1654865	5/10/2006	60204035426.0	11/23/2011	A METHOD AND SYSTEM OF FILTERING A RED-EYE PHENOMENON FROM A DIGITAL IMAGE
0002-0101-EP-01	EP	Lapsed	04763763.2	8/3/2004	1654865A1	5/10/2006	EP1654865B1	11/23/2011	A METHOD AND SYSTEM OF FILTERING A RED-EYE PHENOMENON FROM A DIGITAL IMAGE
0002-0101-EP-02	EP	Lapsed	05750288.2	6/1/2005	17826318	5/9/2007			RED-EYE FILTER METHOD AND APPARATUS
0002-0101-EP-03	EP	Lapsed	10175879.5	9/8/2010	2264997	12/22/2010			A METHOD AND SYSTEM OF FILTERING A RED-EYE PHENOMENON FROM A DIGITAL IMAGE
0002-0101-FR-01	FR	In Force	04763763.2	8/3/2004	1654865	5/10/2006	1654865	11/23/2011	A METHOD AND SYSTEM OF FILTERING A RED-EYE PHENOMENON FROM A DIGITAL IMAGE
0002-0101-GB-01	GB	In Force	04763763.2	8/3/2004	1654865	5/10/2006	1654865	11/23/2011	A METHOD AND SYSTEM OF FILTERING A RED-EYE PHENOMENON FROM A DIGITAL IMAGE
0002-0101-HE-01	HE	Lapsed	5700510040	1/26/2005	20050040	2/22/2006	584150	2/22/2006	RED-EYE FILTER METHOD AND APPARATUS USING PRE-ACQUISITION INFORMATION
0002-0101-JP-01	JP	In Force	2006-522314	8/3/2004	2007503030	2/15/2007	4799147	3/25/2011	A METHOD AND SYSTEM OF FILTERING A RED-EYE PHENOMENON FROM A DIGITAL IMAGE
0002-0101-US-01	US	Lapsed	2007-526252	6/1/2005	2008510399	4/3/2008	4571190	3/20/2010	RED-EYE FILTER METHOD AND APPARATUS
0002-0101-US-02	US	Lapsed	08/947,603	10/9/1997			5,407,777	6/18/2002	RED-EYE FILTER METHOD AND APPARATUS
0002-0101-US-03	US	Lapsed	10/170,511	6/17/2002			7,042,505	5/9/2006	DETECTING RED-EYE FILTER AND APPARATUS USING META-DATA
0002-0101-US-04	US	Lapsed	10/635,862	8/5/2003	20040223063	11/11/2004	7,630,006	12/8/2009	DETECTING RED-EYE FILTER AND APPARATUS USING META-DATA
0002-0101-US-05	US	Lapsed	10/772,767	2/4/2004			7,352,394	4/17/2008	IMAGE MODIFICATION BASED ON RED-EYE FILTER ANALYSIS
0002-0101-US-06	US	Lapsed	10/919,226	8/16/2004	20050041121	2/24/2005	7,738,015	6/15/2010	RED-EYE FILTER METHOD AND APPARATUS
0002-0101-US-07	US	Lapsed	11/379,346	4/19/2006			7,619,665	11/17/2009	RED-EYE FILTER FOR IN-CAMERA DIGITAL IMAGE PROCESSING WITHIN A FACE OF AN ACQUIRED SUBJECT
0002-0101-US-08	US	Lapsed	11/680,834	3/25/2007	20070263104	11/15/2007	7,852,384	12/14/2010	DETECTING RED-EYE FILTER AND APPARATUS USING META-DATA
0002-0101-US-09	US	Lapsed	11/769,208	5/27/2007	20080020580	1/9/2008	7,474,341	3/9/2009	PORTABLE DIGITAL CAMERA WITH RED-EYE FILTER
0002-0101-US-10	US	Lapsed	12/035,416	2/21/2008	20080186389	8/7/2008			IMAGE MODIFICATION BASED ON RED-EYE FILTER ANALYSIS
0002-0101-US-11	US	Lapsed	61/094,030	9/3/2008					OPTIMIZED PERFORMANCE AND PERFORMANCE FOR RED-EYE FILTER METHOD AND APPARATUS
0002-0101-US-12	US	Lapsed	61/094,034	9/3/2008					OPTIMIZED PERFORMANCE AND PERFORMANCE FOR RED-EYE FILTER METHOD AND APPARATUS
0002-0101-US-13	US	Lapsed	12/192,897	8/15/2008	20080298679	12/4/2008	7,847,840	12/7/2010	DETECTING RED-EYE FILTER AND APPARATUS USING META-DATA
0002-0101-US-14	US	Lapsed	12/194,148	8/15/2008	20080316541	12/25/2008	7,804,531	9/28/2010	DETECTING RED-EYE FILTER AND APPARATUS USING META-DATA
0002-0101-US-15	US	Lapsed	12/194,148	8/15/2008	20080327520	1/29/2009	7,746,385	6/29/2010	RED-EYE FILTER METHOD AND APPARATUS
0002-0101-US-16	US	Lapsed	12/194,148	8/15/2008	20080327520	9/4/2008	7,787,022	6/31/2010	RED-EYE FILTER METHOD AND APPARATUS
0002-0101-US-17	US	Lapsed	12/187,763	8/7/2008	20080292183	11/27/2008	7,847,839	12/7/2010	DETECTING RED-EYE FILTER AND APPARATUS USING META-DATA
0002-0101-US-18	US	Lapsed	12/551,282	8/31/2009	20100053362	3/4/2010	9,412,007	8/9/2016	PARTIAL FACE TRACKER FOR RED-EYE FILTER METHOD AND APPARATUS
0002-0101-US-19	US	Lapsed	12/551,312	8/31/2009	20100053367	3/4/2010			PARTIAL FACE TRACKER FOR RED-EYE FILTER METHOD AND APPARATUS
0002-0101-US-20	US	Lapsed	12/551,335	8/31/2009	20100053368	3/4/2010	8,520,093	8/27/2013	FACE TRACKER AND PARTIAL FACE TRACKER FOR RED-EYE FILTER METHOD AND APPARATUS
0002-0101-US-21	US	Lapsed	12/611,387	11/9/2009			7,916,190	3/29/2011	RED-EYE FILTER METHOD AND APPARATUS
0002-0101-US-22	US	Lapsed	12/613,457	11/9/2009	20100580869	3/10/2011	8,597,251	9/17/2013	DETECTING RED-EYE FILTER AND APPARATUS USING META-DATA
0002-0101-US-23	US	Lapsed	12/707,531	2/17/2010	20100295959	11/25/2010	7,753,828	7/5/2011	RED-EYE FILTER METHOD AND APPARATUS
0002-0101-US-24	US	Lapsed	12/815,396	6/14/2010	20110080499	4/7/2011			RED-EYE FILTER METHOD AND APPARATUS
0002-0101-US-25	US	Lapsed	12/889,215	9/23/2010	20110058071	3/10/2011	8,203,621	6/19/2012	RED-EYE FILTER METHOD AND APPARATUS
0002-0101-US-26	US	Lapsed	12/941,995	11/8/2010	20110102643	5/5/2011			PARTIAL FACE DETECTOR FOR RED-EYE FILTER METHOD AND APPARATUS
0002-0101-US-27	US	Lapsed	12/958,130	12/1/2010	20110134271	6/9/2011			DETECTING RED-EYE FILTER AND APPARATUS USING META-DATA
0002-0101-US-28	US	Lapsed	12/957,633	12/1/2010	20110074975	3/31/2011	8,379,117	2/19/2013	DETECTING RED-EYE FILTER AND APPARATUS USING META-DATA
0002-0101-US-29	US	Lapsed	12/957,594	12/1/2010	20110069186	3/24/2011	8,493,478	7/23/2013	DETECTING RED-EYE FILTER AND APPARATUS USING META-DATA
0002-0101-US-30	US	Lapsed	13/026,303	2/14/2011	20110134287	6/9/2011	8,279,301	10/2/2012	RED-EYE FILTER METHOD AND APPARATUS
0002-0101-US-31	US	Lapsed	13/041,392	3/5/2011			8,264,575	9/13/2012	RED-EYE FILTER METHOD AND APPARATUS
0002-0101-US-32	US	Lapsed	13/235,757	9/19/2011	20120038788	2/16/2012			DETECTING RED-EYE FILTER AND APPARATUS USING META-DATA
0002-0101-US-33	US	Lapsed	13/569,171	8/7/2012	20130031624	2/7/2013	8,493,466	7/23/2013	RED-EYE FILTER METHOD AND APPARATUS
0002-0101-US-34	US	Lapsed	13/636,738	10/22/2012	20130044243	2/21/2013	8,698,916	4/15/2014	RED-EYE FILTER METHOD AND APPARATUS
0002-0101-US-35	US	Lapsed	13/769,812	2/18/2013	20130155298	6/20/2013	8,648,938	2/13/2014	DETECTING RED-EYE FILTER AND APPARATUS USING META-DATA
0002-0101-US-36	US	Lapsed	13/771,001	2/19/2013	20130162869	6/27/2013	9,025,054	5/5/2015	DETECTING RED-EYE FILTER AND APPARATUS USING META-DATA
0002-0101-US-37	US	Lapsed	13/787,783	3/6/2013	20130188077	7/25/2013	8,957,993	2/17/2015	DETECTING RED-EYE FILTER AND APPARATUS USING META-DATA
0002-0101-US-38	US	Lapsed	14/010,466	3/26/2013					FACE TRACKER AND PARTIAL FACE TRACKER FOR RED-EYE FILTER METHOD AND APPARATUS
0002-0101-US-39	US	Lapsed	15/232,538	3/18/2014	20140198238	7/17/2014	8,885,074	11/11/2014	RED-EYE FILTER METHOD AND APPARATUS
0002-0101-US-40	US	Lapsed	15/232,538	3/18/2014	20140198238	7/17/2014			PARTIAL FACE DETECTOR RED-EYE FILTER METHOD AND APPARATUS
0002-0101-WO-01	WO	Lapsed	PC1/EP2004/008706	8/3/2004	WO2005015896A1	2/17/2005			A METHOD AND SYSTEM OF FILTERING A RED-EYE PHENOMENON FROM A DIGITAL IMAGE
0002-0101-WO-02	WO	Lapsed	PC1/EP2009/008361	9/2/2009	WO2010025908A1	3/13/2010			PARTIAL FACE DETECTOR RED-EYE FILTER METHOD AND APPARATUS
0002-0101-WO-03	WO	Lapsed	PC1/EP2005/003907	8/16/2004	WO2006018056A1	2/23/2006			METHOD AND APPARATUS FOR DETECTING AND CORRECTING RED-EYE EFFECT
0002-0101-US-01	US	In Force	2009-534560	10/31/2009	20100508571	3/18/2010	4885038	11/18/2011	DIGITAL IMAGE PROCESSING USING FACE DETECTION AND SKIN TONE INFORMATION
0002-0101-US-02	US	In Force	10/608,810	6/26/2006	20060204055	4/29/2009	7,574,016	8/11/2009	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
0002-0101-US-03	US	In Force	11/554,539	10/30/2006	20070110305	5/17/2007	7,844,076	11/30/2010	DIGITAL IMAGE PROCESSING USING FACE DETECTION AND SKIN TONE INFORMATION
0002-0101-US-04	US	In Force	12/198,533	8/26/2008	20100054533	3/4/2010	8,985,453	3/24/2015	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
0002-0101-US-05	US	In Force	12/198,621	8/26/2008	20100054549	3/4/2010	8,985,452	7/30/2013	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
0002-0101-US-06	US	In Force	12/206,637	9/8/2008	20090002514	1/17/2009	8,005,265	8/23/2011	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION

PATENT

REEL: 066352 FRAME: 0722

Xperi Docket #	Country Code	Patent Status	Application #	Filing Date	Publication #	Publication Date	Patent #	Grant Date	Title
0002-0102-US-06	US	In Force	12/262,024	10/30/2008	20090087040	4/2/2009	7,809,162	10/15/2010	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
0002-0102-US-07	US	In Force	12/262,037	10/30/2008	20090087050	4/2/2009	7,834,109	12/15/2009	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
0002-0102-US-08	US	Lapsed	12/262,061	10/30/2008	20090052749	2/26/2009	7,848,549	12/17/2010	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
0002-0102-US-09	US	In Force	12/262,071	10/30/2008	20090052750	2/26/2009	7,860,274	12/14/2010	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
0002-0102-US-10	US	In Force	12/681,418	9/14/2010	20110002039	4/15/2010	7,855,043	11/18/2011	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
0002-0102-US-11	US	In Force	12/681,182	9/14/2010	20110002045	1/6/2011	8,055,090	11/18/2011	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
0002-0102-US-12	US	In Force	12/680,185	9/24/2010	20110013043	1/20/2011	8,121,430	2/21/2012	DIGITAL IMAGE PROCESSING USING FACE DETECTION AND SKIN TONE INFORMATION
0002-0102-US-13	US	In Force	12/960,479	12/4/2010	20110096187	4/28/2011	8,224,108	7/17/2012	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
0002-0102-US-14	US	In Force	12/959,368	12/5/2010	20110075994	3/31/2011	8,131,016	3/6/2012	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
0002-0102-US-15	US	In Force	12/959,376	12/5/2010	20110075995	3/31/2011	8,126,208	2/28/2012	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
0002-0102-US-16	US	In Force	13/244,682	9/25/2011	20120120304	5/17/2012	8,369,588	2/5/2013	DIGITAL IMAGE PROCESSING USING FACE DETECTION AND SKIN TONE INFORMATION
0002-0102-US-17	US	In Force	13/244,671	9/25/2011	20120120304	5/17/2012	8,331,715	12/11/2012	DIGITAL IMAGE PROCESSING USING FACE DETECTION AND SKIN TONE INFORMATION
0002-0102-US-18	US	In Force	13/748,462	1/23/2013	20130236052	9/12/2013	8,908,932	12/19/2014	DIGITAL IMAGE PROCESSING USING FACE DETECTION AND SKIN TONE INFORMATION
0002-0102-US-19	US	Lapsed	13/968,406	8/15/2013					DIGITAL IMAGE PROCESSING USING FACE DETECTION AND SKIN TONE INFORMATION
0002-0102-US-20	US	In Force	14/563,972	12/8/2014	20160014333	1/14/2016	9,516,217	12/16/2016	DIGITAL IMAGE PROCESSING USING FACE DETECTION AND SKIN TONE INFORMATION
0002-0102-US-21	US	In Force	15/369,698	12/5/2016	20170085785	3/23/2017	9,712,743	7/18/2017	DIGITAL IMAGE PROCESSING USING FACE DETECTION AND SKIN TONE INFORMATION
0002-0102-US-22	US	Lapsed	15/649,295	7/13/2017	20170327108	12/28/2017			DIGITAL IMAGE PROCESSING USING FACE DETECTION AND SKIN TONE INFORMATION
0002-0102-WO-01	WO	Lapsed	PCI/US2006/060392	10/31/2006	WO2006054422A2	5/8/2008			DIGITAL IMAGE PROCESSING USING FACE DETECTION AND SKIN TONE INFORMATION CLASSIFICATION AND ORGANIZATION OF CONSUMER DIGITAL IMAGES USING WORKFLOW, AND FACE DETECTION AND RECOGNITION
0002-0103-US-01	US	In Force	10/764,339	1/22/2004			7,551,755	6/23/2009	DETECTION AND RECOGNITION
0002-0106-DE-01	DE	In Force	05792584.4	10/11/2005	1807805A1	7/18/2007	DE602005099054.5	4/10/2013	METHOD AND APPARATUS FOR RED-EYE DETECTION IN AN ACQUIRED DIGITAL IMAGE
0002-0106-EP-01	EP	Lapsed	05792584.4	10/11/2005	1807805	7/18/2007	1807805	4/10/2013	METHOD AND APPARATUS FOR RED-EYE DETECTION IN AN ACQUIRED DIGITAL IMAGE
0002-0106-FR-01	FR	In Force	05792584.4	10/11/2005	1807805A1	7/18/2007	EP1807805B1	4/10/2013	METHOD AND APPARATUS FOR RED-EYE DETECTION IN AN ACQUIRED DIGITAL IMAGE
0002-0106-GB-01	GB	In Force	05792584.4	10/11/2005	1807805A1	7/18/2007	EP1807805B1	4/10/2013	METHOD AND APPARATUS FOR RED-EYE DETECTION IN AN ACQUIRED DIGITAL IMAGE
0002-0106-HE-01	HE	Lapsed	52005/0096	2/18/2005	20050096	2/18/2006	584135	2/8/2006	METHOD AND APPARATUS FOR RED-EYE DETECTION IN AN ACQUIRED DIGITAL IMAGE
0002-0106-JP-01	JP	In Force	2007-538293	10/11/2005	2008-518334	5/29/2008	4856086	11/4/2011	METHOD AND APPARATUS FOR RED-EYE DETECTION IN AN ACQUIRED DIGITAL IMAGE
0002-0106-US-01	US	In Force	10/976,336	10/28/2004	20060093212	5/4/2006	7,536,036	5/19/2009	METHOD AND APPARATUS FOR RED-EYE DETECTION IN AN ACQUIRED DIGITAL IMAGE
0002-0106-US-02	US	In Force	11/123,971	5/6/2005	20060093213	5/4/2006	7,436,998	10/14/2008	QUALITY PRE AND POST FILTERING METHOD AND APPARATUS FOR RED-EYE DETECTION IN AN ACQUIRED DIGITAL IMAGE USING FACE RECOGNITION
0002-0106-US-03	US	Lapsed	11/182,718	7/15/2005	20060093238	5/4/2006			METHOD AND APPARATUS FOR RED-EYE DETECTION IN AN ACQUIRED DIGITAL IMAGE
0002-0106-US-04	US	In Force	11/233,513	9/21/2005	20060120599	6/8/2006	7,587,085	9/8/2009	METHOD AND APPARATUS FOR RED-EYE DETECTION IN AN ACQUIRED DIGITAL IMAGE
0002-0106-US-05	US	Lapsed	61/094,036	9/3/2008					METHOD AND APPARATUS FOR RED-EYE DETECTION IN AN ACQUIRED DIGITAL IMAGE
0002-0106-US-06	US	In Force	12/543,405	9/18/2009	20090304278	12/10/2009	7,955,250	5/31/2011	METHOD AND APPARATUS FOR RED-EYE DETECTION IN AN ACQUIRED DIGITAL IMAGE
0002-0106-US-07	US	In Force	12/551,238	8/31/2009	20100054592	3/4/2010	8,254,674	8/28/2012	ANALYZING PARTIAL FACE REGIONS FOR RED-EYE DETECTION IN ACQUIRED DIGITAL IMAGES
0002-0106-US-08	US	In Force	12/834,901	7/19/2010	20110063465	3/17/2011	8,036,460	10/11/2011	ANALYZING PARTIAL FACE REGIONS FOR RED-EYE DETECTION IN ACQUIRED DIGITAL IMAGES
2-0106-US-09	US	Lapsed	13/103,085	5/3/2011					METHOD AND APPARATUS FOR RED-EYE DETECTION IN AN ACQUIRED DIGITAL IMAGE
2-0106-US-10	US	In Force	13/244,638	9/25/2011	20120014600	1/19/2012	8,265,388	9/11/2012	ANALYZING PARTIAL FACE REGIONS FOR RED-EYE DETECTION IN ACQUIRED DIGITAL IMAGES
2-0106-WO-01	WO	Lapsed	PCI/EP2005/011010	10/11/2005	WO2006045441A1	5/4/2006			METHOD AND APPARATUS FOR RED-EYE DETECTION IN AN ACQUIRED DIGITAL IMAGE
2-0109-DE-01	DE	In Force	05806351.2	10/11/2005	1779322	5/2/2007	602005004299.7	1/9/2008	A DIGITAL IMAGE ACQUISITION SYSTEM HAVING MEANS FOR DETERMINING A CAMERA MOTION BLUR FUNCTION
2-0109-EP-01	EP	Lapsed	05806351.2	10/11/2005	1779322A1	5/2/2007	EP1779322B1	3/9/2008	A DIGITAL IMAGE ACQUISITION SYSTEM HAVING MEANS FOR DETERMINING A CAMERA MOTION BLUR FUNCTION
2-0109-FI-01	FI	Lapsed	05806351.2	10/11/2005	1779322	5/2/2007	1779322	1/9/2008	A DIGITAL IMAGE ACQUISITION SYSTEM HAVING MEANS FOR DETERMINING A CAMERA MOTION BLUR FUNCTION
2-0109-FR-01	FR	Lapsed	05806351.2	10/11/2005	1779322	5/2/2007	1779322	1/9/2008	A DIGITAL IMAGE ACQUISITION SYSTEM HAVING MEANS FOR DETERMINING A CAMERA MOTION BLUR FUNCTION
2-0109-GB-01	GB	Lapsed	05806351.2	10/11/2005	1779322	5/2/2007	1779322	1/9/2008	A DIGITAL IMAGE ACQUISITION SYSTEM HAVING MEANS FOR DETERMINING A CAMERA MOTION BLUR FUNCTION
2-0109-HE-01	HE	Lapsed	52005/0090	2/18/2005	EP20050090A2	2/22/2006	584152	2/22/2006	A DIGITAL IMAGE ACQUISITION SYSTEM HAVING MEANS FOR DETERMINING A CAMERA MOTION BLUR FUNCTION
2-0109-HE-02	HE	Lapsed	05806351.2	10/11/2005	1779322	5/2/2007	1779322	1/9/2008	A DIGITAL IMAGE ACQUISITION SYSTEM HAVING MEANS FOR DETERMINING A CAMERA MOTION BLUR FUNCTION
2-0109-JP-01	JP	In Force	2007-539482	10/11/2005	JP2008-520117A	6/12/2008	4527152	6/11/2010	A DIGITAL IMAGE ACQUISITION SYSTEM HAVING MEANS FOR DETERMINING A CAMERA MOTION BLUR FUNCTION
2-0109-SE-01	SE	Lapsed	05806351.2	10/11/2005	1779322	5/2/2007	1779322	1/9/2008	A DIGITAL IMAGE ACQUISITION SYSTEM HAVING MEANS FOR DETERMINING A CAMERA MOTION BLUR FUNCTION
2-0109-US-01	US	Lapsed	10/985,657	11/10/2004	20060098990	5/11/2006	7,636,486	12/22/2009	METHOD OF DETERMINING PSF USING MULTIPLE INSTANCES OF A NOMINALLY SIMILAR SCENE

PATENT

REEL: 066352 FRAME: 0723

Xperi Docket #	Country Code	Patent Status	Application #	Filing Date	Publication #	Publication Date	Patent #	Grant Date	Title
0002-0109-US-02	US	In Force	11/566,180	12/17/2006	20070053073	3/15/2007	7,660,478	7/29/2010	METHOD OF DETERMINING PSF USING MULTIPLE INSTANCES OF A NOMINALLY SIMILAR SCENE
0002-0109-US-03	US	Lapsed	12/702,092	2/8/2006	20100201826	8/12/2010	8,494,299	7/29/2013	METHOD OF DETERMINING PSF USING MULTIPLE INSTANCES OF A NOMINALLY SIMILAR SCENE
0002-0109-US-04	US	In Force	12/956,904	11/30/2010	20110069207	3/24/2011	8,243,996	8/14/2012	A DIGITAL IMAGE ACQUISITION SYSTEM HAVING MEANS FOR DETERMINING A CAMERA MOTION BLUR FUNCTION
0002-0109-WO-01	WO	Lapsed	PC1/EP2005/011011	11/10/2004	WO2006050782A1	5/18/2006		6/12/2013	FOREGROUND/BACKGROUND SEGMENTATION IN DIGITAL IMAGES
0002-0119-CN-01	CN	In Force	200680054223.X	8/21/2006	1014161219	4/22/2009	ZL200680054223.X	6/12/2013	FOREGROUND/BACKGROUND SEGMENTATION IN DIGITAL IMAGES
0002-0119-DE-01	DE	In Force	06791605.6	8/21/2006	1984892	10/29/2008	6020660463128.3	7/29/2015	FOREGROUND/BACKGROUND SEGMENTATION IN DIGITAL IMAGES
0002-0119-DK-01	DK	In Force	06791605.6	8/21/2006	1984892	10/29/2008	1984892	7/29/2015	FOREGROUND/BACKGROUND SEGMENTATION IN DIGITAL IMAGES
0002-0119-EP-01	EP	Lapsed	06791605.6	8/21/2006	1984892	10/29/2008	1984892	7/29/2015	FOREGROUND/BACKGROUND SEGMENTATION IN DIGITAL IMAGES
0002-0119-FI-01	FI	In Force	06791605.6	8/21/2006	1984892	10/29/2008	1984892	7/29/2015	FOREGROUND/BACKGROUND SEGMENTATION IN DIGITAL IMAGES
0002-0119-FR-01	FR	In Force	06791605.6	8/21/2006	1984892	10/29/2008	1984892	7/29/2015	FOREGROUND/BACKGROUND SEGMENTATION IN DIGITAL IMAGES
0002-0119-GB-01	GB	In Force	06791605.6	8/21/2006	1984892	10/29/2008	1984892	7/29/2015	FOREGROUND/BACKGROUND SEGMENTATION IN DIGITAL IMAGES
0002-0119-IE-01	IE	In Force	06791605.6	8/21/2006	1984892	10/29/2008	1984892	7/29/2015	FOREGROUND/BACKGROUND SEGMENTATION IN DIGITAL IMAGES
0002-0119-JP-01	JP	In Force	2008-554602	8/21/2006	JP200952156A	7/23/2009	5004972	6/1/2012	FOREGROUND/BACKGROUND SEGMENTATION IN DIGITAL IMAGES
0002-0119-NL-01	NL	In Force	06791605.6	8/21/2006	1984892	10/29/2008	1984892	7/29/2015	FOREGROUND/BACKGROUND SEGMENTATION IN DIGITAL IMAGES
0002-0119-SE-01	SE	In Force	06791605.6	8/21/2006	1984892	10/29/2008	1984892	7/29/2015	FOREGROUND/BACKGROUND SEGMENTATION IN DIGITAL IMAGES
0002-0119-US-01	US	Lapsed	60773,714	2/14/2006					DETECTION AND CORRECTION OF NON-RED FLASH EYE DEFECTS, DIGITAL IMAGE ACQUISITION DEVICE WITH BUILT IN DUST AND SENSOR MAPPING CAPABILITY, LENS CAP
0002-0119-US-02	US	In Force	11/573,713	8/21/2006	2009023685	11/5/2009	7,868,922	1/11/2011	FOREGROUND/BACKGROUND SEGMENTATION IN DIGITAL IMAGES
0002-0119-US-03	US	Lapsed	137004,021	1/10/2011	20110102628	5/5/2011			FOREGROUND/BACKGROUND SEGMENTATION IN DIGITAL IMAGES
0002-0119-WO-01	WO	Lapsed	PC1/EP2006/008229	8/21/2006	WO2007093199A2	8/23/2007			FOREGROUND/BACKGROUND SEGMENTATION IN DIGITAL IMAGES
0002-0121-CN-01	CN	Lapsed	200890000049.5	3/5/2008	ZL200890000049.5	4/5/2011	201738344	4/6/2011	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
0002-0121-DE-01	DE	In Force	06791667.6	8/25/2006	1810246A1	7/25/2007	1810246	8/6/2008	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
0002-0121-EP-01	EP	Lapsed	06791667.6	8/25/2006	1810246A1	7/25/2007	1810246	8/6/2008	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
0002-0121-FI-01	FI	In Force	06791667.6	8/25/2006	1810246A1	7/25/2007	1810246	8/6/2008	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
0002-0121-FR-01	FR	In Force	06791667.6	8/25/2006	1810246A1	7/25/2007	1810246	8/6/2008	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
0002-0121-GB-01	GB	In Force	06791667.6	8/25/2006	1810246A1	7/25/2007	1810246	8/6/2008	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
0002-0121-IE-01	IE	Lapsed	52006/0611	8/16/2006	200606611	11/1/2006	584399	11/1/2006	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
0002-0121-IE-02	IE	In Force	06791667.6	8/25/2006	1810246	7/25/2007	1810246	8/6/2008	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
0002-0121-JP-01	JP	Lapsed	2009-552850	8/25/2006	JP2009-519503A	5/27/2009	4367688	2/27/2009	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
0002-0121-JP-02	JP	Lapsed	2009-552850	8/25/2006	JP2009-502727A	6/10/2010		7/7/2011	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
0002-0121-KR-01	KR	In Force	10-2-0009-7020721	3/5/2008	10-2009-0122275	11/29/2009	1049188	7/7/2011	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
0002-0121-SE-01	SE	In Force	06791667.6	8/25/2006	1810246A1	7/25/2007	1810246	8/6/2008	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
0002-0121-US-01	US	In Force	11/282,954	11/18/2005	20070116579	5/24/2007	7,689,009	3/30/2010	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
2-0121-US-02	US	Lapsed	11/462,035	8/2/2006	20080240555	10/2/2008	7,920,723	4/5/2011	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
2-0121-US-03	US	In Force	12/042,335	3/5/2008	20080232711	9/25/2008	7,970,182	6/28/2011	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
2-0121-US-04	US	In Force	12/940,521	12/17/2009	20100182454	7/22/2010	7,869,628	1/11/2011	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
2-0121-US-05	US	In Force	12/952,162	11/22/2010	20110069182	3/24/2011	7,970,183	6/28/2011	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
2-0121-US-06	US	In Force	12/952,167	11/22/2010	20110090363	4/21/2011	7,970,184	6/28/2011	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
2-0121-US-07	US	Lapsed	12/952,171	11/22/2010	201100909208	3/24/2011	7,953,252	5/31/2011	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
2-0121-US-08	US	Lapsed	12/960,492	12/4/2010	20110115949	5/19/2011	8,160,308	4/17/2012	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
2-0121-US-09	US	Lapsed	13/079,032	4/3/2011	20110262035	10/2/2011	8,126,217	2/28/2012	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
2-0121-US-10	US	Lapsed	13/079,033	4/3/2011	20110262034	10/2/2011	8,175,342	5/8/2012	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
2-0121-US-11	US	Lapsed	13/079,810	4/4/2011	20110262038	10/2/2011	8,131,021	5/8/2012	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
2-0121-US-12	US	Lapsed	13/103,842	5/9/2011	20110211095	9/1/2011	8,180,115	5/15/2012	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
2-0121-US-13	US	In Force	13/138,555	5/30/2011	20110228135	9/22/2011	8,184,868	5/22/2012	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
2-0121-US-14	US	Lapsed	13/138,552	5/30/2011	20110228134	9/22/2011	8,126,218	2/28/2012	TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
2-0121-WO-01	WO	Lapsed	PC1/EP2008/008358	3/25/2008	WO2007005764A1	5/24/2007			TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
2-0121-WO-02	WO	Lapsed	PC1/US2008/053864	3/5/2008	2008109644	9/12/2008			TWO STAGE DETECTION FOR PHOTOGRAPHIC EYE ARTIFACTS
2-0122-DE-01	DE	In Force	06753948.6	5/29/2006	1800259	6/27/2007	60700600400.1	1/2/2008	IMAGE SEGMENTATION METHOD AND SYSTEM
2-0122-DE-02	DE	In Force	07024773.9	5/29/2006	1918872	5/17/2008	602006008009.3	7/22/2009	IMAGE SEGMENTATION METHOD AND SYSTEM
2-0122-EP-01	EP	Lapsed	06753948.6	5/29/2006	1800259A1	6/27/2007	EP1800259A1	1/2/2008	IMAGE SEGMENTATION METHOD AND SYSTEM
2-0122-EP-02	EP	Lapsed	07024773.9	5/29/2006	1918872A2	7/22/2009	EP1918872A1	7/22/2009	IMAGE SEGMENTATION METHOD AND SYSTEM
2-0122-FI-01	FI	In Force	06753948.6	5/29/2006	1800259	6/27/2007	1800259	1/2/2008	IMAGE SEGMENTATION METHOD AND SYSTEM
2-0122-FI-02	FI	In Force	06753948.6	5/29/2006	1800259	6/27/2007	1800259	1/2/2008	IMAGE SEGMENTATION METHOD AND SYSTEM
2-0122-FR-01	FR	In Force	07024773.9	5/29/2006	1918872	5/17/2008	60700600400.1	7/22/2009	IMAGE SEGMENTATION METHOD AND SYSTEM

PATENT

REEL: 066352 FRAME: 0724

Xperi Docket #	Country Code	Patent Status	Application #	Filing Date	Publication #	Publication Date	Patent #	Grant Date	Title
0002-0143-US-07	US	In Force	12/167,500	7/3/2008	20080267461	10/30/2008	8,050,465	11/1/2011	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
0002-0143-US-08	US	In Force	12/333,221	12/11/2008	20090208056	8/20/2009	7,864,990	3/4/2011	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
0002-0143-US-09	US	In Force	12/983,863	1/3/2011	20110129121	6/7/2011	8,270,674	9/18/2012	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
0002-0143-US-10	US	In Force	13/234,149	9/15/2011	20110602761	3/15/2012	8,422,739	4/16/2013	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
0002-0143-US-11	US	In Force	13/245,738	9/26/2011	20120070087	3/22/2012	8,509,498	8/13/2013	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
0002-0143-US-12	US	In Force	13/797,983	3/12/2013	20130195318	8/17/2013	8,666,124	3/4/2014	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
0002-0143-US-13	US	In Force	13/797,989	3/12/2013	20130195319	8/1/2013	8,744,145	6/3/2014	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
0002-0143-US-14	US	In Force	13/798,011	3/12/2013	20130195320	8/1/2013	8,666,125	3/4/2014	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
0002-0143-WO-01	WO	Lapsed	PC1/US2006/032959	3/12/2006	20080188837	2/14/2008			IMPROVED FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
0002-0143-WO-02	WO	Lapsed	PC1/EP2007/003530	8/11/2006	WO2008017343A1	2/14/2008			IMPROVED FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
0002-0146-CN-01	CN	In Force	200780015914.3	5/3/2007	20116530A2	1/21/2009	101443791	5/30/2012	IMPROVED FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
0002-0146-EP-01	EP	Lapsed	07797335.2	5/3/2007	20116530A2	1/21/2009			IMPROVED FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
0002-0146-IE-01	IE	Lapsed	SZ006/0564	7/28/2006	IE20060564E2	11/1/2006	584400	11/1/2006	IMPROVED FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
0002-0146-IN-01	IN	Lapsed	6274/CHENP/2008	5/3/2007					IMPROVED FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
0002-0146-JP-01	JP	Lapsed	2009-510085	5/3/2007	IP2009-556417A	10/8/2009	5087614	9/14/2012	IMPROVED FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
0002-0146-KR-01	KR	In Force	10-2008-7029351	5/3/2007	KR10-2009-0007779A	1/20/2009	1266817	5/16/2013	IMPROVED FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
0002-0146-KR-02	KR	Lapsed	10-2012-7003843	3/5/2007	10-2013-0032524A	4/5/2012	1277229	6/14/2013	IMPROVED FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
0002-0146-US-01	US	Lapsed	607465363	5/3/2006					FOREGROUND / BACKGROUND SEPARATION
0002-0146-US-02	US	In Force	11/744,020	5/3/2007	20070269108	11/22/2007	8,363,908	1/29/2013	FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
0002-0146-US-03	US	In Force	12/879,953	9/10/2010	201100329549	12/30/2010	8,358,841	1/22/2013	FOREGROUND/BACKGROUND SEPARATION IN DIGITAL IMAGES
0002-0146-US-04	US	In Force	13/751,973	1/28/2013	201302089379	8/15/2013	9,117,282	8/25/2015	FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
0002-0146-US-05	US	In Force	14/834,111	3/24/2015	201160078630	3/17/2016	9,684,966	6/20/2017	FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
0002-0146-WO-01	WO	Lapsed	PC1/US2007/068190	5/3/2007	2007131140	11/15/2007	101427266	10/3/2012	IMPROVED FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
0002-0149-CN-01	CN	In Force	20080054358.6	8/3/2006	101427266	5/6/2009			METHOD AND APPARATUS FOR SELECTIVE DISQUALIFICATION OF DIGITAL IMAGES
0002-0149-EP-01	EP	Lapsed	06789329.7	8/3/2006	1896663A1	11/12/2008			METHOD AND APPARATUS FOR SELECTIVE DISQUALIFICATION OF DIGITAL IMAGES
0002-0149-JP-01	JP	In Force	2008-556300	8/3/2006	IP2009-527983A	7/30/2009	4970469	4/13/2012	METHOD AND APPARATUS FOR SELECTIVE DISQUALIFICATION OF DIGITAL IMAGES
0002-0149-US-01	US	Lapsed	607776338	7/24/2006					HUMAN EYE DETECTOR
0002-0149-US-02	US	In Force	11/460,218	7/26/2006	20070201724	8/30/2007	7,792,335	9/7/2010	METHOD AND APPARATUS FOR SELECTIVE DISQUALIFICATION OF DIGITAL IMAGES
0002-0149-US-03	US	In Force	12/849,597	8/3/2011	20110033112	2/10/2011	7,995,795	8/9/2011	METHOD AND APPARATUS FOR SELECTIVE DISQUALIFICATION OF DIGITAL IMAGES
0002-0149-US-04	US	In Force	13/190,986	7/26/2011	20110280446	11/13/2011	8,285,001	10/9/2012	METHOD AND APPARATUS FOR SELECTIVE DISQUALIFICATION OF DIGITAL IMAGES
0002-0149-WO-01	WO	Lapsed	PC1/US2006/030315	2/24/2006	20070997777	8/30/2007			METHOD AND APPARATUS FOR SELECTIVE DISQUALIFICATION OF DIGITAL IMAGES
0002-0159-CN-01	CN	Lapsed	200890000048	3/5/2008					METHOD AND APPARATUS FOR SELECTIVE DISQUALIFICATION OF DIGITAL IMAGES
0002-0159-EP-01	EP	Lapsed	08731476.1	3/5/2008	2145288				RED EYE FALSE POSITIVE FILTERING USING FACE LOCATION AND ORIENTATION
0002-0159-JP-01	JP	Lapsed	2009-552871	3/5/2008	IP2010520557A	1/20/2010			RED EYE FALSE POSITIVE FILTERING USING FACE LOCATION AND ORIENTATION
0002-0159-KR-01	KR	Lapsed	2009-7026069	3/5/2008	KR10-2009-0118090	11/17/2009	1159830	6/19/2012	RED EYE FALSE POSITIVE FILTERING USING FACE LOCATION AND ORIENTATION
0002-0159-US-01	US	Lapsed	607892882	3/5/2007					RED EYE FALSE POSITIVE FILTERING USING FACE LOCATION AND ORIENTATION
2-0159-US-02	US	In Force	12/043,025	3/5/2008	20080219518	9/11/2008	7,995,804	8/9/2011	RED EYE FALSE POSITIVE FILTERING USING FACE LOCATION AND ORIENTATION
2-0159-US-03	US	In Force	13/113,913	5/23/2011	20110222730	9/15/2011	8,233,674	7/31/2012	RED EYE FALSE POSITIVE FILTERING USING FACE LOCATION AND ORIENTATION
2-0159-WO-01	WO	Lapsed	PC1/US2008/055964	3/5/2007	2008109708	9/12/2008			FACE CATEGORIZATION AND ANNOTATION OF A MOBILE PHONE CONTACT LIST
2-0196-CN-01	CN	Lapsed	200890000051.2	3/4/2008					FACE CATEGORIZATION AND ANNOTATION OF A MOBILE PHONE CONTACT LIST
2-0196-EP-01	EP	Lapsed	08743677.0	3/4/2008	2123008A1	9/12/2008			FACE CATEGORIZATION AND ANNOTATION OF A MOBILE PHONE CONTACT LIST
2-0196-US-01	US	Lapsed	607893114	3/5/2007					FACE CATEGORIZATION AND ANNOTATION OF A MOBILE PHONE CONTACT LIST
2-0196-US-02	US	Lapsed	12/042,104	3/4/2008	20080220750	9/11/2008	8,189,927	5/29/2012	FACE CATEGORIZATION AND ANNOTATION OF A MOBILE PHONE CONTACT LIST
2-0196-US-03	US	In Force	12/437,464	5/7/2009	20090238419	9/24/2009	8,363,951	1/29/2013	FACE RECOGNITION TRAINING METHOD AND APPARATUS
2-0196-US-04	US	In Force	12/913,772	10/28/2010	20110058060	3/10/2011	8,363,952	1/29/2013	FACE RECOGNITION TRAINING METHOD AND APPARATUS
2-0196-US-05	US	In Force	13/742,262	1/15/2013	20130194455	8/1/2013	8,712,160	4/29/2014	FACE RECOGNITION THROUGH FACE BUILDING FROM TWO OR MORE PARTIAL FACE IMAGES FROM THE SAME FACE
2-0196-WO-01	WO	Lapsed	PC1/US2008/055831	3/5/2007	2008109622	9/12/2008			FACE CATEGORIZATION AND ANNOTATION OF A MOBILE PHONE CONTACT LIST
2-0204-CN-01	CN	Lapsed	200790100006.X	11/14/2007					IMAGE PROCESSING METHOD AND APPARATUS
2-0204-DE-01	DE	In Force	07819840.5	11/14/2007	2160715	3/10/2010	602007011994.4	1/12/2011	IMAGE PROCESSING METHOD AND APPARATUS
2-0204-EP-01	EP	Lapsed	07819840.5	11/14/2007	2160715A1	3/29/2009	EP2160715B1	1/12/2011	IMAGE PROCESSING METHOD AND APPARATUS
2-0204-FI-01	FI	Lapsed	07819840.5	11/14/2007	2160715A1	3/10/2010	EP2160715B1	1/12/2011	IMAGE PROCESSING METHOD AND APPARATUS
2-0204-FR-01	FR	Lapsed	07819840.5	11/14/2007	2160715	3/10/2010	2160715	1/12/2011	IMAGE PROCESSING METHOD AND APPARATUS
2-0204-GB-01	GB	Lapsed	07819840.5	11/14/2007	2160715	3/10/2010	2160715	1/12/2011	IMAGE PROCESSING METHOD AND APPARATUS
2-0204-IE-01	IE	Lapsed	SZ009/0337	4/30/2008	20080337	10/3/2008	584987	10/1/2008	IMAGE PROCESSING METHOD AND APPARATUS
2-0204-JP-01	JP	Lapsed	2010-525204	11/14/2007	IP2010-539614A	12/16/2010	4643764	12/10/2010	IMAGE PROCESSING METHOD AND APPARATUS
2-0204-KR-01	KR	Lapsed	2010-7005800	11/14/2007	10-2010-0064369	6/14/2010			IMAGE PROCESSING METHOD AND APPARATUS
2-0204-NL-01	NL	Lapsed	07819840.5	11/14/2007	2160715	3/10/2010	2160715	1/12/2011	IMAGE PROCESSING METHOD AND APPARATUS

PATENT

REEL: 066352 FRAME: 0726

Xperi Docket #	Country Code	Patent Status	Application #	Filing Date	Publication #	Publication Date	Patent #	Grant Date	Title
0002-0204-US-01	SE	Lapsed	07819940.5	11/14/2007	2160715	5/3/2011	2160715	1/12/2011	IMAGE PROCESSING METHOD AND APPARATUS
0002-0204-US-01	US	Lapsed	607893.116	9/15/2007				4/9/2013	SLIDING ADAPTIVE METHOD USING BOTH A PREVIEW PICTURE AND A FULL RESOLUTION PICTURE
0002-0204-US-02	US	In Force	117855.721	3/5/2007	20080219581	9/11/2008	8,417,055	4/9/2013	IMAGE PROCESSING METHOD AND APPARATUS
0002-0204-US-03	US	In Force	12/9/2008	12/9/2008	20090167893	7/2/2009	8,264,576	9/11/2012	RGBW SENSOR ARRAY
0002-0204-US-04	US	In Force	12/9/2010	10/11/2010	2010102658	9/5/2011	8,878,967	11/4/2014	RGBW SENSOR ARRAY
0002-0204-US-05	US	Lapsed	13772.323	2/26/2013	20130236094	9/12/2013	8,649,627	2/13/2014	IMAGE PROCESSING METHOD AND APPARATUS
0002-0204-US-06	US	In Force	13772.324	2/26/2013	20130229542	9/5/2013	8,737,766	5/27/2014	IMAGE PROCESSING METHOD AND APPARATUS
0002-0204-WO-01	WO	Lapsed	PCT/EP2007/009999	11/14/2007	WO2009036793	3/26/2009			IMAGE PROCESSING METHOD AND APPARATUS
0002-0208-WO-02	WO	Lapsed	PCT/EP2009/008674	11/14/2007	WO2010066381A1	6/17/2010			RGBW SENSOR ARRAY
0002-0208-US-01	US	In Force	607935.669	5/2/2007				5/17/2012	METHOD OF DETECTING RED-EYE IN A DIGITAL IMAGE
0002-0208-US-02	US	In Force	117936.085	11/7/2007	20080112599	5/15/2008	8,170,294	5/17/2012	METHOD OF DETECTING RED-EYE IN A DIGITAL IMAGE
0002-0208-US-03	US	Lapsed	607915.580	5/2/2007					METHOD OF DETECTING RED-EYE IN A DIGITAL IMAGE
0002-0211-US-01	US	Lapsed	607945.558	6/21/2007					DIGITAL IMAGE ENHANCEMENT WITH REFERENCE IMAGES
0002-0211-US-02	US	In Force	12/140.048	6/16/2008	20080117378	12/25/2008	8,682,097	3/25/2014	DIGITAL IMAGE ENHANCEMENT WITH REFERENCE IMAGES
0002-0211-US-03	US	In Force	12/142.773	6/20/2008	20080117379	12/23/2008	8,213,737	7/3/2012	DIGITAL IMAGE ENHANCEMENT WITH REFERENCE IMAGES
0002-0211-WO-01	WO	Lapsed	PCT/US2008/067746	6/20/2008	20080117379	12/24/2008			DIGITAL IMAGE ENHANCEMENT WITH REFERENCE IMAGES
0002-0212-US-01	US	In Force	117859.164	9/21/2007	20080090796	3/26/2009	8,180,173	5/15/2012	FLASH ARTIFACT EYE DEFECT CORRECTION IN BLURRED IMAGES USING ANISOTROPIC BLURRING
0002-0212-WO-01	WO	Lapsed	PCT/EP2008/004920	9/21/2007	WO200905822A1	3/26/2009			DEFECT CORRECTION IN BLURRED IMAGES
0002-0223-HE-01	HE	Lapsed	S2007/0820	11/12/2007	HE20070820A2	12/10/2008	585074	12/10/2008	METHOD FOR IMPROVED RED EYE DETECTION IN ISO IMAGES
0002-0223-US-01	US	In Force	117861.257	9/25/2007	20080080797	3/26/2009	8,503,818	8/6/2013	FACE DETECTION IN MID-SHOT DIGITAL IMAGES
0002-0223-US-02	US	In Force	137947.863	7/21/2013	20130329096	12/12/2013	8,849,062	9/30/2014	FACE DETECTION IN MID-SHOT DIGITAL IMAGES
0002-0224-HE-01	HE	Lapsed	S2008/0161	3/4/2008	20080161	9/17/2008	584977	9/17/2008	FACE DETECTION IN MID-SHOT DIGITAL IMAGES
0002-0224-US-01	US	In Force	12/026.484	2/5/2008	20080196466	8/5/2009	8,494,286	7/23/2013	FACE DETECTION IN MID-SHOT DIGITAL IMAGES
0002-0242-CN-01	CN	In Force	20090103029 X	1/30/2009	102017959	4/13/2011	2120990103029 X	9/3/2014	METHODS AND APPARATUS FOR EYE GAZE MEASUREMENT
0002-0242-DE-01	DE	In Force	09706058.6	1/30/2009	2165523	3/24/2010	602009001078.6	4/13/2011	METHODS AND APPARATUS FOR EYE GAZE MEASUREMENT
0002-0242-DE-02	DE	In Force	10164430.0	1/30/2009	2227002	9/8/2010	2227002	6/29/2016	METHODS AND APPARATUS FOR EYE GAZE MEASUREMENT
0002-0242-EP-01	EP	Lapsed	09706058.6	1/30/2009	2165523A2	9/8/2010	EP2165523B1	4/13/2011	METHODS AND APPARATUS FOR EYE GAZE MEASUREMENT
0002-0242-EP-02	EP	Lapsed	10164430.0	1/30/2009	2227002	9/8/2010	2227002	6/29/2016	METHODS AND APPARATUS FOR EYE GAZE MEASUREMENT
0002-0242-FR-01	FR	In Force	09706058.6	1/30/2009	2165523	3/24/2010	2165523	4/13/2011	METHODS AND APPARATUS FOR EYE GAZE MEASUREMENT
0002-0242-FR-02	FR	In Force	10164430.0	1/30/2009	2227002	9/8/2010	2227002	6/29/2016	METHODS AND APPARATUS FOR EYE GAZE MEASUREMENT
0002-0242-GB-01	GB	In Force	09706058.6	1/30/2009	2165523	3/24/2010	2165523	4/13/2011	METHODS AND APPARATUS FOR EYE GAZE MEASUREMENT
0002-0242-GB-02	GB	In Force	10164430.0	1/30/2009	2227002	9/8/2010	2227002	6/29/2016	METHODS AND APPARATUS FOR EYE GAZE MEASUREMENT
0002-0242-JP-01	JP	In Force	2010-541073	1/30/2009	IP2011509584A	3/24/2011	5140163	11/22/2012	METHODS AND APPARATUS FOR EYE GAZE MEASUREMENT
0002-0242-JP-02	JP	In Force	2012-252026	1/30/2009	IP2013-062860A	4/4/2013	5550503	4/25/2014	METHODS AND APPARATUS FOR EYE GAZE MEASUREMENT
0002-0242-KR-01	KR	In Force	2010-7013935	1/30/2009	KR10-2010-0112560A	10/19/2010	1204046	11/16/2012	METHODS AND APPARATUS FOR EYE GAZE MEASUREMENT
0002-0242-US-01	US	Lapsed	61024.551	1/30/2008					METHODS AND APPARATUS FOR USING IMAGE ACQUISITION DATA TO DETECT AND CORRECT IMAGE DEFECTS
2-0242-US-02	US	In Force	12362.399	1/29/2009	20090189998	7/30/2009	8,212,864	7/3/2012	DEFECTS
2-0242-US-03	US	In Force	137306.972	11/29/2011	20120105687	5/3/2012	8,525,898	9/3/2013	METHODS AND APPARATUS FOR USING IMAGE ACQUISITION DATA TO DETECT AND CORRECT IMAGE DEFECTS
2-0242-US-04	US	In Force	137802.672	3/13/2013	20130194462	8/1/2013	9,137,425	9/15/2015	METHODS AND APPARATUS FOR USING IMAGE ACQUISITION DATA TO DETECT AND CORRECT IMAGE DEFECTS
2-0242-US-05	US	Lapsed	137802.707	3/13/2013	20130194461	8/1/2013			METHODS AND APPARATUS FOR USING IMAGE ACQUISITION DATA TO DETECT AND CORRECT IMAGE DEFECTS
2-0242-WO-01	WO	Lapsed	PCT/EP2009/051081	1/30/2009	WO2009095481A2	8/5/2009			METHODS AND APPARATUS FOR EYE GAZE MEASUREMENT
2-0255-US-01	US	Lapsed	12/479.658	6/5/2009					LOW-LIGHT VIDEO FRAME ENHANCEMENT
2-0255-US-02	US	In Force	12/485.316	6/16/2009	20090303343	12/10/2009	8,199,222	6/12/2012	LOW-LIGHT VIDEO FRAME ENHANCEMENT
2-0255-WO-01	WO	Lapsed	PCT/EP2010/056999	6/16/2009	WO2010145910A1	12/23/2010			LOW-LIGHT VIDEO FRAME ENHANCEMENT
2-0277-US-01	US	In Force	12/055.958	3/26/2008	20080244296	10/3/2009	7,855,737	12/21/2010	METHOD OF MAKING A DIGITAL CAMERA IMAGE OF A SCENE INCLUDING THE CAMERA USER
2-0277-US-02	US	In Force	12/941.605	11/8/2010	20110083654	3/3/2011	8,242,182	8/14/2012	METHOD OF MAKING A DIGITAL CAMERA IMAGE OF A SCENE INCLUDING THE CAMERA USER
2-0278-CN-01	CN	In Force	200980102866.0	1/26/2009	103097499	4/6/2011	21209980102866.0	3/13/2015	DETECTING FACIAL EXPRESSIONS IN DIGITAL IMAGES
2-0278-JP-01	JP	In Force	2010-544617	1/26/2009	IP2011-51977A	4/14/2011	5639478	10/31/2014	DETECTING FACIAL EXPRESSIONS IN DIGITAL IMAGES
2-0278-KR-01	KR	In Force	10-2010-7016964	1/26/2009	10-2010-0116178	10/29/2010	10-1615254	4/19/2016	DETECTING FACIAL EXPRESSIONS IN DIGITAL IMAGES
2-0278-US-01	US	Lapsed	61024.508	1/29/2008					METHODS AND APPARATUS FOR DETECTING FACIAL EXPRESSIONS IN DIGITAL IMAGES AND APPLICATIONS THEREOF
2-0278-US-02	US	In Force	127354.707	1/30/2009	20090196893	7/30/2009	8,750,578	6/10/2014	DETECTING FACIAL EXPRESSIONS IN DIGITAL IMAGES
2-0278-US-03	US	In Force	147300.150	6/9/2014	20140347514	11/27/2014	9,462,180	10/4/2016	DETECTING FACIAL EXPRESSIONS IN DIGITAL IMAGES
2-0278-US-04	US	In Force	157284.280	10/3/2016	20170026567	1/26/2017	9,942,470	4/10/2018	DETECTING FACIAL EXPRESSIONS IN DIGITAL IMAGES
2-0278-US-05	US	In Force	157948.848	4/9/2018	20180295279	10/11/2018	10,778,885	9/15/2020	DETECTING FACIAL EXPRESSIONS IN DIGITAL IMAGES

PATENT

REEL: 066352 FRAME: 0727

Xperi Docket #	Country Code	Patent Status	Application #	Filing Date	Publication #	Publication Date	Patent #	Grant Date	Title
00002-0278-US-06	US	Pending	17/020,535	9/14/2020	20220067686	3/4/2021			DETECTING FACIAL EXPRESSIONS IN DIGITAL IMAGES
00002-0278-US-07	US	Pending	17/643,162	12/7/2021	20220103749	3/31/2022			DETECTING FACIAL EXPRESSIONS IN DIGITAL IMAGES
00002-0278-WO-01	WO	Lapsed	PCT/EP2009/000315	12/9/2009	WO2009095168A1	8/6/2009			DETECTING FACIAL EXPRESSIONS IN DIGITAL IMAGES
00002-0282-US-01	US	Lapsed	61/120,289	12/5/2008					FACE RECOGNITION USING FACE TRACKER CLASSIFIER DATA
00002-0282-US-02	US	In Force	12/631,711	12/4/2009	20100141786	6/10/2010	8,687,078	4/1/2014	FACE RECOGNITION USING FACE TRACKER CLASSIFIER DATA
00002-0282-US-03	US	In Force	12/631,733	12/4/2009	20100141787	6/10/2010	8,411,912	4/1/2013	FACE RECOGNITION USING FACE TRACKER CLASSIFIER DATA
00002-0282-US-04	US	In Force	13/658,022	10/23/2012	20130044923	2/23/2013	8,977,011	3/10/2015	FACE RECOGNITION USING FACE TRACKER CLASSIFIER DATA
00002-0282-US-05	US	In Force	PCT/EP2009/008603	12/5/2008	20130229545	9/5/2013	8,731,249	5/20/2014	FACE RECOGNITION USING FACE TRACKER CLASSIFIER DATA
00002-0282-WO-01	WO	Lapsed	PCT/EP2009/008603	12/5/2008	WO2010003463A2	6/10/2010			FACE RECOGNITION USING FACE TRACKER CLASSIFIER DATA
00002-0293-CN-01	CN	In Force	200980131123.6	8/11/2009	1021193561	7/5/2011	42200980131123.6	12/10/2014	IN-CAMERA BASED METHOD OF DETECTING DEFECT EYE WITH HIGH ACCURACY
00002-0293-DE-01	DE	In Force	09777797.3	8/11/2009	DE602009006658	5/25/2011	602009006658	4/25/2012	IN-CAMERA BASED METHOD OF DETECTING DEFECT EYE WITH HIGH ACCURACY
00002-0293-EP-01	EP	Lapsed	09777797.3	8/11/2009	EP2324391A1	5/25/2011	EP2324391A1	4/25/2012	IN-CAMERA BASED METHOD OF DETECTING DEFECT EYE WITH HIGH ACCURACY
00002-0293-FR-01	FR	In Force	09777797.3	8/11/2009	2324391A1	5/25/2011	2324391	4/25/2012	IN-CAMERA BASED METHOD OF DETECTING DEFECT EYE WITH HIGH ACCURACY
00002-0293-GB-01	GB	In Force	09777797.3	8/11/2009	2324391A1	5/25/2011	2324391	4/25/2012	IN-CAMERA BASED METHOD OF DETECTING DEFECT EYE WITH HIGH ACCURACY
00002-0293-JP-01	JP	In Force	2011-522426	8/11/2009	IP2011-550913A	12/22/2011	5509140	4/25/2014	IN-CAMERA BASED METHOD OF DETECTING DEFECT EYE WITH HIGH ACCURACY
00002-0293-KR-01	KR	In Force	10-2011-7002212	8/11/2009	KR10-2011-0058773A	6/1/2011	1493064	2/6/2015	IN-CAMERA BASED METHOD OF DETECTING DEFECT EYE WITH HIGH ACCURACY
00002-0293-US-01	US	In Force	12/191,304	8/14/2008	20100039520	2/18/2010	8,081,254	12/20/2011	IN-CAMERA BASED METHOD OF DETECTING DEFECT EYE WITH HIGH ACCURACY
00002-0293-US-02	US	Lapsed	13/164,685	6/20/2011	20110304748	12/15/2011	8,334,926	12/18/2012	IN-CAMERA BASED METHOD OF DETECTING DEFECT EYE WITH HIGH ACCURACY
00002-0293-US-03	US	In Force	13/656,737	10/21/2012	20130044199	7/21/2013	8,743,274	6/3/2014	IN-CAMERA BASED METHOD OF DETECTING DEFECT EYE WITH HIGH ACCURACY
00002-0293-WO-01	WO	Lapsed	PCT/EP2009/005809	8/14/2008	WO2010017953A1	2/18/2010			FACE TRACKING FOR CONTROLLING IMAGING PARAMETERS
00002-0300-US-01	US	In Force	12/479,593	6/5/2009	2009030342	12/10/2009	7,916,897	3/29/2011	FACE TRACKING FOR CONTROLLING IMAGING PARAMETERS
00002-0300-US-02	US	In Force	12/814,245	6/13/2010	20110026780	7/3/2011	8,385,610	2/26/2013	FACE TRACKING FOR CONTROLLING IMAGING PARAMETERS
00002-0300-US-03	US	In Force	13/771,061	2/19/2013	20130224698	8/29/2013	8,934,680	1/13/2015	FACE TRACKING FOR CONTROLLING IMAGING PARAMETERS
00002-0300-US-04	US	In Force	14/561,905	12/5/2014	20150092078	4/2/2015	9,398,209	7/19/2016	FACE TRACKING FOR CONTROLLING IMAGING PARAMETERS
00002-0300-US-05	US	In Force	15/211,975	7/15/2016	20160330369	11/10/2016	9,681,040	6/13/2017	FACE TRACKING FOR CONTROLLING IMAGING PARAMETERS
00002-0314-JP-01	JP	In Force	2012-512405	5/28/2010	JP2012528506A	11/12/2012	5456159	1/17/2014	METHODS AND APPARATUS FOR FOREGROUND, TOP-OF-THE-HEAD SEPARATION FROM BACKGROUND
00002-0314-US-01	US	Lapsed	61/182,625	5/29/2009					METHODS AND APPARATUS FOR FOREGROUND, TOP-OF-THE-HEAD SEPARATION FROM BACKGROUND
00002-0314-US-02	US	In Force	12/790,594	5/28/2010	20110050938	3/3/2011	8,633,999	1/21/2014	METHODS AND APPARATUS FOR FOREGROUND, TOP-OF-THE-HEAD SEPARATION FROM BACKGROUND
00002-0314-WO-01	WO	Lapsed	PCT/EP2010/057492	5/29/2009	WO2010136593A2	12/2/2010			METHODS AND APPARATUS FOR FOREGROUND, TOP-OF-THE-HEAD SEPARATION FROM BACKGROUND
00002-0317-JP-01	JP	Lapsed	2012-516781	6/29/2010	2012-530994	12/16/2012			METHODS AND APPARATUS FOR HALF-FACE DETECTION
00002-0317-US-01	US	Lapsed	61/221,455	6/29/2009					METHODS AND APPARATUS FOR HALF-FACE DETECTION
00002-0317-US-02	US	In Force	12/825,280	6/28/2010	20110158547	6/30/2011	8,605,955	12/10/2013	METHODS AND APPARATUS FOR HALF-FACE DETECTION
2-0317-WO-01	WO	Lapsed	PCT/EP2010/059228	6/29/2009	WO2011000841A1	1/6/2011			METHODS AND APPARATUS FOR HALF-FACE DETECTION
2-0318-CN-01	CN	Lapsed	200980117715.2	7/28/2009	102027505	4/20/2011			AUTOMATIC FACE AND SKIN BEAUTIFICATION USING FACE DETECTION
2-0318-CN-02	CN	Lapsed	201710079433.4	7/28/2009	10691991.1	7/4/2017			AUTOMATIC FACE AND SKIN BEAUTIFICATION USING FACE DETECTION
2-0318-EP-01	EP	Lapsed	09777489.7	7/28/2009	2277141	1/26/2011			AUTOMATIC FACE AND SKIN BEAUTIFICATION USING FACE DETECTION
2-0318-JP-01	JP	In Force	2011-520374	7/28/2009	IP2011529649A	12/8/2011	5547730	5/23/2014	AUTOMATIC FACE BEAUTIFICATION USING FACE DETECTION
2-0318-KR-01	KR	Lapsed	2010-7025740	7/28/2009	KR1020110033980	4/4/2011	1446975	9/26/2014	AUTOMATIC FACE AND SKIN BEAUTIFICATION USING FACE DETECTION
2-0318-US-01	US	Lapsed	61/084,942	7/30/2008					AUTOMATIC FACE BEAUTIFICATION USING FACE DETECTION
2-0318-US-02	US	In Force	12/532,796	7/30/2009	20100026631	2/4/2010	8,345,114	1/1/2013	AUTOMATIC FACE AND SKIN BEAUTIFICATION USING FACE DETECTION
2-0318-US-03	US	In Force	13/732,357	12/31/2012	20130188073	7/15/2013	8,902,326	12/2/2014	AUTOMATIC FACE AND SKIN BEAUTIFICATION USING FACE DETECTION
2-0318-WO-01	WO	Lapsed	PCT/EP2009/005463	7/28/2009	WO2010012484A2	2/4/2010			AUTOMATIC FACE AND SKIN BEAUTIFICATION USING FACE DETECTION
2-0351-US-01	US	In Force	12/572,930	10/2/2009	20110081052	4/7/2011	8,379,917	2/19/2013	FACE RECOGNITION PERFORMANCE USING ADDITIONAL IMAGE FEATURES
2-0351-US-02	US	Lapsed	13/753,426	1/29/2013	20130142391	6/6/2013			FACE RECOGNITION PERFORMANCE USING ADDITIONAL IMAGE FEATURES
2-0351-US-03	US	In Force	14/562,366	12/5/2014	20150086076	3/26/2015	9,325,979	4/26/2016	FACE RECOGNITION PERFORMANCE USING ADDITIONAL IMAGE FEATURES
2-0351-US-04	US	In Force	15/137,930	4/25/2016	20160314346	10/27/2016	10,032,068	7/24/2018	METHOD OF MAKING A DIGITAL CAMERA IMAGE OF A FIRST SCENE WITH A SUPERIMPOSED SECOND SCENE
2-0351-WO-01	WO	Lapsed	PCT/EP2010/063293	10/2/2009	WO2011039040A1	4/7/2011			IMPROVING FACE RECOGNITION PERFORMANCE USING ADDITIONAL IMAGE FEATURES
2-0357-US-01	US	In Force	13/035,907	2/25/2011	20110218398	8/30/2012	8,836,777	9/16/2014	AUTOMATIC DETECTION OF VERTICAL GAZE USING AN EMBEDDED IMAGING DEVICE
2-0357-US-02	US	Lapsed	13/739,589	8/26/2011	20120219180	8/30/2012			AUTOMATIC DETECTION OF VERTICAL GAZE USING AN EMBEDDED IMAGING DEVICE
2-0358-US-01	US	In Force	12/827,868	6/30/2010	20110002506	1/6/2011	8,520,089	8/27/2013	EYE BEAUTIFICATION
2-0358-US-02	US	In Force	13/969,538	3/17/2013	20130329079	12/12/2013	9,053,524	6/9/2015	EYE BEAUTIFICATION UNDER INACCURATE LOCALIZATION
2-0358-US-03	US	In Force	14/733,873	6/8/2015	20150269712	9/24/2015	9,691,136	6/27/2017	EYE BEAUTIFICATION UNDER INACCURATE LOCALIZATION
2-0358-US-04	US	In Force	15/628,997	6/21/2017	20170352135	12/7/2017	10,304,166	5/27/2019	EYE BEAUTIFICATION UNDER INACCURATE LOCALIZATION

PATENT

REEL: 066352 FRAME: 0728

Xperi Docket #	Country Code	Patent Status	Application #	Filing Date	Publication #	Publication Date	Patent #	Grant Date	Title
0002-0358-WO-01	WO	Lapsed	PC1/EP2011/066013	6/30/2010	WO201200800A1	1/5/2012			EYE BEAUTIFICATION
0002-0360-US-01	US	In Force	12/941,983	11/28/2010	20110205581	8/25/2011	8,698,924	4/15/2014	TOE MAPPING FOR LOW-LIGHT VIDEO FRAME ENHANCEMENT
0002-0360-US-02	US	In Force	147032,806	9/28/2010	20130342738	12/26/2013	8,890,983	11/18/2014	TOE MAPPING FOR LOW-LIGHT VIDEO FRAME ENHANCEMENT
0002-0360-US-03	US	In Force	147535,036	11/6/2010	20150062387	3/5/2015	9,094,648	7/28/2015	TOE MAPPING FOR LOW-LIGHT VIDEO FRAME ENHANCEMENT
0002-0360-US-04	US	In Force	147810,297	7/27/2010	20150334283	11/19/2015	9,307,212	4/5/2016	CONTINUOUS AUTOFOCUS BASED ON FACE DETECTION AND TRACKING
0002-0361-CN-01	CN	In Force	201180046708.5	9/28/2011	103155537	6/12/2013	ZL201180046708.5	8/10/2016	CONTINUOUS AUTOFOCUS BASED ON FACE DETECTION AND TRACKING
0002-0361-DE-01	DE	In Force	11764712.3	9/28/2011	2622840	8/7/2013	2622840	7/19/2017	CONTINUOUS AUTOFOCUS BASED ON FACE DETECTION AND TRACKING
0002-0361-EP-01	EP	Lapsed	11764712.3	9/28/2011	2622840	8/7/2013	2622840	7/19/2017	CONTINUOUS AUTOFOCUS BASED ON FACE DETECTION AND TRACKING
0002-0361-FR-01	FR	In Force	11764712.3	9/28/2011	2622840	8/7/2013	2622840	7/19/2017	CONTINUOUS AUTOFOCUS BASED ON FACE DETECTION AND TRACKING
0002-0361-GB-01	GB	In Force	11764712.3	9/28/2011	2622840	8/7/2013	2622840	7/19/2017	CONTINUOUS AUTOFOCUS BASED ON FACE DETECTION AND TRACKING
0002-0361-JP-01	JP	In Force	10-2013-7010457	9/28/2011	2013-542461	11/21/2013	6077005	10/21/2016	CONTINUOUS AUTOFOCUS BASED ON FACE DETECTION AND TRACKING
0002-0361-US-01	US	Lapsed	617387,449	9/28/2010	13-0112036	10/14/2013	10-1783847	9/26/2017	CONTINUOUS AUTOFOCUS BASED ON FACE DETECTION AND TRACKING
0002-0361-US-02	US	In Force	11795072.9	11/27/2010	20120075492	3/29/2012	8,970,770	3/3/2015	CONTINUOUS AUTOFOCUS BASED ON FACE DETECTION AND TRACKING
0002-0361-WO-01	WO	Lapsed	PC1/EP2011/066885	9/28/2010	WO2012041892A1	4/5/2012			OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
0002-0363-CN-01	CN	In Force	201180038838.4	11/11/2011	103052960	4/17/2013	ZL201180038838.4	10/24/2017	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
0002-0363-DE-01	DE	In Force	11790572.9	11/11/2011	2548154	1/23/2013	2548154	10/21/2015	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
0002-0363-DE-02	DE	In Force	15189292.4	11/11/2011	3007104	10/25/2017	602011099853.0	7/19/2017	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
0002-0363-DE-03	DE	In Force	17169218.9	11/11/2011	3236391	10/25/2017	3236391	10/9/2019	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
0002-0363-EP-01	EP	Lapsed	11790572.9	11/11/2011	2548154	1/23/2013	2548154	10/21/2015	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
0002-0363-EP-02	EP	Lapsed	15189292.4	11/11/2011	3007104	10/25/2017	602011099853.0	7/19/2017	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
0002-0363-EP-03	EP	Lapsed	17169218.9	11/11/2011	3236391	10/25/2017	3236391	10/9/2019	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
0002-0363-FR-01	FR	Lapsed	11790572.9	11/11/2011	2548154	1/23/2013	2548154	10/21/2015	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
0002-0363-FR-02	FR	Lapsed	15189292.4	11/11/2011	3007104	10/25/2017	602011099853.0	7/19/2017	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
0002-0363-FR-03	FR	Lapsed	17169218.9	11/11/2011	3236391	10/25/2017	3236391	10/9/2019	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
0002-0363-GB-01	GB	Lapsed	11790572.9	11/11/2011	2548154	1/23/2013	2548154	10/21/2015	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
0002-0363-GB-02	GB	Lapsed	15189292.4	11/11/2011	3007104	10/25/2017	602011099853.0	7/19/2017	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
0002-0363-GB-03	GB	In Force	17169218.9	11/11/2011	3236391	10/25/2017	3236391	10/9/2019	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
0002-0363-JP-01	JP	In Force	2013-538205	11/11/2011	2014505915	3/6/2014	5530568	4/25/2014	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
0002-0363-JP-02	JP	In Force	10-2013-7006742	11/11/2011	2013-242571	12/5/2013	6081297	1/27/2017	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
0002-0363-NL-03	NL	In Force	17169218.9	11/11/2011	3236391	10/25/2017	3236391	10/9/2019	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
0002-0363-US-01	US	In Force	147944,701	11/11/2010	20120120283	5/17/2012	8,648,959	3/11/2014	RAPID AUTO-FOCUS USING CLASSIFIER CHAINS, MEMS AND/OR MULTIPLE OBJECT FOCUSING
0002-0363-US-02	US	In Force	147174,821	2/6/2014	20140930388	7/10/2014	8,797,448	8/5/2014	RAPID AUTO-FOCUS USING CLASSIFIER CHAINS, MEMS AND/OR MULTIPLE OBJECT FOCUSING
0002-0363-WO-01	WO	Lapsed	PC1/EP2011/069904	11/11/2011	WO2012062893A2	5/18/2012			OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
0002-0368-CN-01	CN	In Force	201180038857.7	11/29/2011	103081455	5/4/2013	ZL201180038857.7	3/8/2017	PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
2-0368-CN-02	CN	In Force	20170179765.X	11/29/2011	107105157	8/29/2017	ZL20170179765.X	2/14/2020	PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
2-0368-DE-01	DE	In Force	11799254.5	11/29/2011	2548368A1	1/23/2013	602011003163.5	9/18/2013	PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
2-0368-EP-01	EP	Lapsed	11799254.5	11/29/2011	2548368A1	1/23/2013	602011003163.5	9/18/2013	PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
2-0368-FR-01	FR	Lapsed	11799254.5	11/29/2011	2548368A1	1/23/2013	602011003163.5	9/18/2013	PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
2-0368-GB-01	GB	Lapsed	11799254.5	11/29/2011	2548368A1	1/23/2013	602011003163.5	9/18/2013	PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
2-0368-JP-01	JP	In Force	2013-5400414	11/29/2011	2014508076	3/6/2014	5547854	5/23/2014	PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
2-0368-KR-01	KR	In Force	10-2013-7003151	11/29/2011	10-2014-0000192	1/7/2014	10-1845318	3/29/2018	PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
2-0368-US-01	US	Lapsed	61417,737	11/29/2010					PORTRAIT IMAGE CREATION FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
2-0368-US-02	US	In Force	137306,588	11/29/2011	20120133746	5/31/2012	9,118,833	8/25/2015	PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
2-0368-US-03	US	In Force	147834,067	8/24/2011	20150365588	12/17/2015	9,456,128	9/27/2016	PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
2-0368-US-04	US	In Force	152725,971	9/26/2016	20170111571	4/20/2017	10,110,804	10/23/2018	PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
2-0368-WO-01	WO	Lapsed	PC1/EP2011/071233	11/29/2011	WO2012072606A1	6/7/2012			PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
2-0369-US-01	US	In Force	13/077,891	3/31/2011	20120249841	10/4/2012	8,860,816	10/14/2014	SCENE ENHANCEMENTS IN OFF-CENTER PERIPHERAL REGIONS FOR NONLINEAR LENS GEOMETRIES
2-0370-US-01	US	In Force	137234,139	9/15/2011	20130070125	3/21/2013	8,493,459	7/23/2013	REGISTRATION OF DISTORTED IMAGES
2-0370-US-03	US	Lapsed	13/947,579	7/22/2013	20140086509	3/27/2014			REGISTRATION OF DISTORTED IMAGES
2-0371-US-01	US	In Force	13/078,970	4/2/2011	20120249725	10/4/2012	8,723,959	5/13/2014	FACE AND OTHER OBJECT TRACKING IN OFF-CENTER PERIPHERAL REGIONS FOR NONLINEAR LENS GEOMETRIES
2-0372-US-01	US	In Force	13/084,340	4/14/2011	20120249727	10/4/2012	8,896,703	11/25/2014	SUPERRESOLUTION ENHANCEMENT OF PERIPHERAL REGIONS NONLINEAR LENS GEOMETRIES
2-0377-DE-01	DE	In Force	12712727.2	2/17/2012	2577955	4/10/2013	2577955	7/30/2014	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
2-0377-EP-01	EP	Lapsed	12712727.2	2/17/2012	2577955	4/10/2013	2577955	7/30/2014	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES

PATENT

REEL: 066352 FRAME: 0729

Xperi Docket #	Country Code	Patent Status	Application #	Filing Date	Publication #	Publication Date	Patent #	Grant Date	Title
0002-0377-R-01	FR	Lapsed	12712727.2	2/17/2012	2577955	4/10/2013	2577955	7/30/2014	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
0002-0377-GB-01	GB	Lapsed	12712727.2	2/17/2012	2577955	4/10/2013	2577955	7/30/2014	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
0002-0377-US-01	US	Lapsed	61/444,565	2/18/2011					DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
0002-0377-US-02	US	In Force	13/984,487	2/17/2012	20130314568	11/29/2013	9,019,402	4/28/2015	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
0002-0377-US-03	US	Lapsed	14/698,742	4/28/2015					DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
0002-0377-WO-01	WO	Lapsed	PCT/IB2012/000381	2/18/2011	WO/2012/110894	8/23/2012			DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
0002-0386-IE-01	IE	Lapsed	32012/0509	11/27/2012	IE20120509A2				DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
0002-0386-US-01	US	Lapsed	61/748,070	12/31/2012					DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
0002-0386-US-02	US	In Force	14/646,368	11/21/2013	20150312478	10/29/2015	9,736,370	8/15/2017	DIGITAL IMAGE CAPTURE DEVICE HAVING A PANORAMA MODE
0002-0386-US-03	US	In Force	15/672,743	8/9/2017	20180063430	3/17/2018	10,122,919	11/6/2018	DIGITAL IMAGE CAPTURE DEVICE HAVING A PANORAMA MODE
0002-0386-US-04	US	In Force	16/176,538	10/31/2018	20190141239	5/9/2019	11,070,723	7/20/2021	DIGITAL IMAGE CAPTURE DEVICE HAVING A PANORAMA MODE
0002-0386-US-05	US	Pending	17/356,365	6/29/2021	20210409598	12/30/2021			DIGITAL IMAGE CAPTURE DEVICE HAVING A PANORAMA MODE
0002-0386-WO-01	WO	Lapsed	PCT/EP2013/074423	11/21/2013	WO2014082921	6/5/2014			DIGITAL IMAGE CAPTURE DEVICE HAVING A PANORAMA MODE
0002-0395-DE-01	DE	Pending	112015001656.2	3/27/2015	DE 11 2015 001 656 15	12/29/2016			IMAGE PROCESSING METHOD AND APPARATUS
0002-0395-IR-01	IR	Pending	201617036942	3/27/2015					IMAGE PROCESSING METHOD AND APPARATUS
0002-0395-US-01	US	Lapsed	61/975,262	4/4/2014					IMAGE PROCESSING METHOD AND APPARATUS
0002-0395-US-02	US	In Force	14/508,150	10/9/2014	20150286854	10/8/2015	9,239,957	3/19/2016	IMAGE PROCESSING METHOD AND APPARATUS
0002-0395-US-03	US	In Force	15/301,937	3/27/2015	20170186138	6/29/2017	10,452,910	10/27/2019	METHOD OF AVOIDING BIOMETRICALLY IDENTIFYING A SUBJECT WITHIN AN IMAGE
0002-0395-US-04	US	In Force	16/656,306	10/17/2015	20200050849	2/13/2020	10,769,435	9/8/2020	METHOD OF AVOIDING BIOMETRICALLY IDENTIFYING A SUBJECT WITHIN AN IMAGE
0002-0395-WO-01	WO	Lapsed	PCT/EP2015/056815	3/27/2015	WO2015150292	10/8/2015			IMAGE PROCESSING METHOD AND APPARATUS
0002-0397-CN-01	CN	In Force	201580051252.X	7/19/2015	107111009	8/29/2017	4,201580051252.X	11/8/2019	OPTICAL SYSTEM FOR IMAGE ACQUISITION DEVICE, IMAGE ACQUISITION DEVICE, AND IMAGE ACQUISITION SYSTEM
0002-0397-DE-01	DE	In Force	15741138.0	7/19/2015			3001867	6/21/2017	AN OPTICAL SYSTEM FOR AN IMAGE ACQUISITION DEVICE
0002-0397-EP-01	EP	Lapsed	15741138.0	7/19/2015	3001867	4/6/2016	3001867	6/21/2017	AN OPTICAL SYSTEM FOR AN IMAGE ACQUISITION DEVICE
0002-0397-FR-01	FR	In Force	15741138.0	7/19/2015			3001867	6/21/2017	AN OPTICAL SYSTEM FOR AN IMAGE ACQUISITION DEVICE
0002-0397-GB-01	GB	In Force	15741138.0	7/19/2015			3001867	6/21/2017	AN OPTICAL SYSTEM FOR AN IMAGE ACQUISITION DEVICE
0002-0397-KR-01	KR	In Force	10-2017-70048831	7/19/2015	10-2017-0031775	3/21/2017	10-1834393	2/26/2018	AN OPTICAL SYSTEM FOR AN IMAGE ACQUISITION DEVICE
0002-0397-US-01	US	Lapsed	62/095,272	8/8/2014					OPTICAL SYSTEM FOR AN IMAGE ACQUISITION DEVICE
0002-0397-US-02	US	Lapsed	62/126,270	2/27/2015					OPTICAL SYSTEM FOR AN IMAGE ACQUISITION DEVICE
2-0397-US-03	US	In Force	14/821,156	8/7/2015	20160044253	2/11/2016	10,051,208	8/14/2018	OPTICAL SYSTEM FOR ACQUISITION OF IMAGES WITH EITHER OR BOTH VISIBLE OR NEAR-INFRARED SPECTRA
2-0397-US-04	US	In Force	14/962,909	12/8/2015	20160092731	3/31/2016	10,152,631	12/11/2018	OPTICAL SYSTEM FOR AN IMAGE ACQUISITION DEVICE
2-0397-WO-01	WO	Lapsed	PCT/EP2015/065988	7/19/2015	WO2016020147	2/11/2016			PERFECTING OF DIGITAL IMAGE CAPTURE PARAMETERS WITHIN ACQUISITION DEVICES USING FACE DETECTION
2-0401-US-01	US	In Force	10/608,887	6/26/2003	20060203107	9/14/2006	7,616,233	11/10/2009	PERFECTING OF DIGITAL IMAGE CAPTURE PARAMETERS WITHIN ACQUISITION DEVICES USING FACE DETECTION
2-0401-US-02	US	Lapsed	12/582,415	10/20/2009	20100039525	2/18/2010			PERFECTING OF DIGITAL IMAGE CAPTURE PARAMETERS WITHIN ACQUISITION DEVICES USING FACE DETECTION
2-0401-US-03	US	Lapsed	12/582,642	10/20/2009	20100271499	10/29/2010			PERFECTING OF DIGITAL IMAGE CAPTURE PARAMETERS WITHIN ACQUISITION DEVICES USING FACE DETECTION
2-0402-US-01	US	In Force	10/608,888	6/26/2003	20060203108	9/14/2006	7,562,368	4/22/2008	PERFECTING THE OPTICS WITHIN A DIGITAL IMAGE ACQUISITION DEVICE USING FACE DETECTION
2-0402-US-02	US	Lapsed	11/941,956	11/18/2007	20080143854	6/19/2008			PERFECTING THE EFFECT OF FLASH WITHIN AN IMAGE ACQUISITION DEVICES USING FACE DETECTION
2-0403-US-01	US	In Force	10/608,811	6/26/2003	20060204056	9/14/2006	7,471,846	12/30/2008	PERFECTING THE EFFECT OF FLASH WITHIN AN IMAGE ACQUISITION DEVICES USING FACE DETECTION
2-0403-US-02	US	In Force	11/773,855	7/5/2007	20090102949	4/29/2009	7,693,311	4/9/2010	PERFECTING THE EFFECT OF FLASH WITHIN AN IMAGE ACQUISITION DEVICES USING FACE DETECTION
2-0403-US-03	US	In Force	11/773,815	7/5/2007	20080043122	2/21/2008	7,702,136	4/20/2010	PERFECTING THE EFFECT OF FLASH WITHIN AN IMAGE ACQUISITION DEVICES USING FACE DETECTION
2-0403-US-04	US	In Force	12/753,910	4/5/2010	20100188850	7/29/2010	7,822,235	10/26/2010	PERFECTING THE EFFECT OF FLASH WITHIN AN IMAGE ACQUISITION DEVICES USING FACE DETECTION
2-0403-US-05	US	In Force	12/753,907	4/5/2010	20100188850	7/29/2010	7,822,234	10/26/2010	PERFECTING THE EFFECT OF FLASH WITHIN AN IMAGE ACQUISITION DEVICES USING FACE DETECTION
2-0403-US-06	US	In Force	12/892,937	9/29/2010	20110013044	3/20/2011	8,160,312	4/17/2012	PERFECTING THE EFFECT OF FLASH WITHIN AN IMAGE ACQUISITION DEVICES USING FACE DETECTION
2-0403-US-07	US	In Force	12/892,935	9/29/2010	20110025886	2/9/2011	8,155,401	4/10/2012	PERFECTING THE EFFECT OF FLASH WITHIN AN IMAGE ACQUISITION DEVICES USING FACE DETECTION
2-0404-US-01	US	Lapsed	10/608,772	6/26/2003			7,440,593	10/21/2008	METHOD OF IMPROVING ORIENTATION AND COLOR BALANCE OF DIGITAL IMAGES USING FACE DETECTION INFORMATION
2-0404-US-02	US	In Force	11/924,046	12/27/2004	20060204110	9/14/2006	7,565,030	7/21/2009	DETECTING ORIENTATION OF DIGITAL IMAGES USING FACE DETECTION INFORMATION

PATENT

REEL: 066352 FRAME: 0730

Xperi Docket #	Country Code	Patent Status	Application #	Filing Date	Publication #	Publication Date	Patent #	Grant Date	Title
0002-0404-US-03	US	In Force	11,765,967	6/20/2007	20080013800	1/17/2008	7,630,527	12/8/2009	METHOD OF IMPROVING ORIENTATION AND COLOR BALANCE OF DIGITAL IMAGES USING FACE DETECTION INFORMATION
0002-0404-US-04	US	In Force	11,765,899	6/20/2007	20080013799	1/17/2008	7,912,245	3/22/2011	METHOD OF IMPROVING ORIENTATION AND COLOR BALANCE OF DIGITAL IMAGES USING FACE DETECTION INFORMATION
0002-0404-US-05	US	In Force	12,482,305	6/10/2009	20090245893	10/1/2009	7,844,135	11/30/2011	DETECTING ORIENTATION OF DIGITAL IMAGES USING FACE DETECTION INFORMATION
0002-0404-US-06	US	In Force	12,629,450	12/2/2009	20100165150	7/17/2010	8,265,399	9/11/2012	DETECTING ORIENTATION OF DIGITAL IMAGES USING FACE DETECTION INFORMATION
0002-0404-US-07	US	In Force	12,637,664	12/24/2009	20100220899	9/2/2010	7,986,811	7/26/2011	METHOD OF IMPROVING ORIENTATION AND COLOR BALANCE OF DIGITAL IMAGES USING FACE DETECTION INFORMATION
0002-0404-US-08	US	In Force	12,949,751	11/18/2010	20110064329	3/17/2011	8,081,844	12/29/2011	DETECTING ORIENTATION OF DIGITAL IMAGES USING FACE DETECTION INFORMATION
0002-0404-US-09	US	In Force	13,118,572	5/30/2011	20120075504	3/29/2012	8,498,446	7/30/2013	METHOD OF IMPROVING ORIENTATION AND COLOR BALANCE OF DIGITAL IMAGES USING FACE DETECTION INFORMATION
0002-0404-US-10	US	In Force	13,530,480	12/19/2011	20120155709	6/21/2012	8,391,645	3/5/2013	DETECTING ORIENTATION OF DIGITAL IMAGES USING FACE DETECTION INFORMATION
0002-0404-US-11	US	Lapsed	13,778,128	2/27/2013	20130169821	7/4/2013			DETECTING ORIENTATION AND COLOR BALANCE OF DIGITAL IMAGES USING FACE DETECTION INFORMATION
0002-0404-US-12	US	In Force	13,953,717	7/29/2013	20140036109	2/6/2014	8,989,443	3/24/2015	METHOD OF IMPROVING ORIENTATION AND COLOR BALANCE OF DIGITAL IMAGES USING FACE DETECTION INFORMATION
0002-0404-US-13	US	In Force	13,953,733	7/29/2013	20130914575	11/28/2013	9,008,374	4/14/2015	METHOD OF IMPROVING ORIENTATION AND COLOR BALANCE OF DIGITAL IMAGES USING FACE DETECTION INFORMATION
0002-0404-US-14	US	In Force	13,953,740	7/29/2013	20130315488	11/28/2013	8,761,449	6/24/2014	METHOD OF IMPROVING ORIENTATION AND COLOR BALANCE OF DIGITAL IMAGES USING FACE DETECTION INFORMATION
0002-0407-US-01	US	In Force	10,608,819	6/26/2003	20060204057	9/14/2006	7,289,292	9/13/2007	DIGITAL IMAGE ADJUSTABLE COMPRESSION AND RESOLUTION USING FACE DETECTION INFORMATION
0002-0407-US-02	US	Lapsed	11,773,868	7/5/2007	20080019565	1/24/2008	7,466,866	12/18/2008	DIGITAL IMAGE ADJUSTABLE COMPRESSION AND RESOLUTION USING FACE DETECTION INFORMATION
0002-0407-US-03	US	In Force	12,131,334	12/9/2008	20090141144	6/4/2009	7,684,630	3/23/2010	DIGITAL IMAGE ADJUSTABLE COMPRESSION AND RESOLUTION USING FACE DETECTION INFORMATION
0002-0407-US-04	US	In Force	12,719,620	3/8/2010	20100165140	7/1/2010	9,326,066	12/4/2012	DIGITAL IMAGE ADJUSTABLE COMPRESSION AND RESOLUTION USING FACE DETECTION INFORMATION
0002-0408-US-01	US	In Force	10,608,824	6/26/2003	20060215924	9/28/2006	7,315,630	1/1/2008	PERFECTING OF DIGITAL IMAGE RENDERING PARAMETERS WITHIN RENDERING DEVICES USING FACE DETECTION
0002-0409-US-01	US	In Force	10,764,336	1/22/2004			7,558,408	7/7/2009	CLASSIFICATION SYSTEM FOR CONSUMER DIGITAL IMAGES USING WORKFLOW AND USER INTERFACE MODULES, AND FACE DETECTION AND RECOGNITION
0002-0410-US-01	US	In Force	10,764,335	1/22/2004			7,587,068	9/8/2009	CLASSIFICATION DATABASE FOR CONSUMER DIGITAL IMAGES
0002-0410-US-02	US	In Force	12,554,258	9/4/2009	20100066822	3/18/2010	8,553,949	10/8/2013	CLASSIFICATION AND ORGANIZATION OF CONSUMER DIGITAL IMAGES USING WORKFLOW, AND FACE DETECTION AND RECOGNITION
0002-0410-US-03	US	In Force	13,563,730	7/31/2012	20130050460	2/28/2013	8,897,504	11/25/2014	CLASSIFICATION AND ORGANIZATION OF CONSUMER DIGITAL IMAGES USING WORKFLOW, AND FACE DETECTION AND RECOGNITION
0002-0410-US-04	US	In Force	14,542,261	11/14/2014	20150067600	3/5/2015	9,779,287	10/3/2017	CLASSIFICATION AND ORGANIZATION OF CONSUMER DIGITAL IMAGES USING WORKFLOW, AND FACE DETECTION AND RECOGNITION
0002-0410-US-05	US	In Force	15,721,387	9/29/2017	20180025218	1/25/2018	10,346,677	7/9/2019	DETECTION AND RECOGNITION
2-0411-US-01	US	In Force	10,764,276	1/22/2004			7,555,148	6/30/2009	CLASSIFICATION SYSTEM FOR CONSUMER DIGITAL IMAGES USING AUTOMATIC WORKFLOW AND FACE NORMALIZATION, AND FACE RECOGNITION
2-0412-US-01	US	In Force	10,763,801	1/22/2004			7,564,994	7/21/2009	CLASSIFICATION AND RECOGNITION
2-0412-US-02	US	In Force	12,506,124	7/26/2009	20100014721	1/23/2010	8,199,979	6/12/2012	CLASSIFICATION SYSTEM FOR CONSUMER DIGITAL IMAGES USING AUTOMATIC WORKFLOW AND FACE DETECTION AND RECOGNITION
2-0416-IE-01	IE	Lapsed	52,005,0282	5/6/2005	20050282	12/14/2005	584112	12/29/2005	DIGITAL CAMERA WITH BUILT-IN LENS CALIBRATION TABLE
2-0416-US-01	US	Lapsed	10,676,820	9/30/2003	20050078173	4/14/2005	7,676,110	3/9/2010	DETERMINATION OF NEED TO SERVICE A CAMERA BASED ON DETECTION OF BLEMISHES IN DIGITAL IMAGES
2-0416-US-02	US	In Force	10,842,244	5/10/2004	20050068452	3/31/2005	7,590,305	9/15/2009	DIGITAL CAMERA WITH BUILT-IN LENS CALIBRATION TABLE
2-0416-US-03	US	Lapsed	12,558,227	9/13/2009	20100231727	9/16/2010			DIGITAL CAMERA WITH BUILT-IN LENS CALIBRATION TABLE
2-0416-US-04	US	Lapsed	12,710,271	2/22/2010	20100321637	12/29/2010	8,369,650	2/5/2013	IMAGE DEFECT MAP CREATION USING BATCHES OF DIGITAL IMAGES
2-0416-US-05	US	Lapsed	12,661,033	3/8/2010	20100259622	10/14/2010			DETERMINATION OF NEED TO SERVICE A CAMERA BASED ON DETECTION OF BLEMISHES IN DIGITAL IMAGES
2-0416-US-06	US	In Force	13,748,584	1/23/2013	20130208995	8/15/2013	8,879,869	11/4/2014	IMAGE DEFECT MAP CREATION USING BATCHES OF DIGITAL IMAGES
2-0416-WO-01	WO	Lapsed	PC/EP/2005/2005033	9/5/2003	WO/2005/109853A1	11/17/2005			DIGITAL CAMERA WITH BUILT-IN LENS CALIBRATION TABLE
2-0421-US-01	US	Lapsed	10,988,562	11/10/2004	20060098891	5/11/2006	7,639,889	12/29/2009	METHOD OF NOTIFYING USERS REGARDING MOTION ARTIFACTS BASED ON IMAGE ANALYSIS
2-0421-US-02	US	In Force	12,199,710	8/27/2008	20080316321	12/25/2008	7,697,778	4/13/2010	METHOD OF NOTIFYING USERS REGARDING MOTION ARTIFACTS BASED ON IMAGE ANALYSIS
2-0421-US-03	US	Lapsed	12,755,338	4/6/2010	20100328472	12/30/2010	8,494,300	7/23/2010	METHOD OF NOTIFYING USERS REGARDING MOTION ARTIFACTS BASED ON IMAGE ANALYSIS
2-0421-US-04	US	In Force	13,088,410	4/17/2011	20110193389	8/11/2011	8,270,753	9/18/2012	METHOD OF NOTIFYING USERS REGARDING MOTION ARTIFACTS BASED ON IMAGE ANALYSIS
2-0421-US-05	US	In Force	13,088,411	4/17/2011	20110199493	8/18/2011	8,285,067	10/9/2012	METHOD OF NOTIFYING USERS REGARDING MOTION ARTIFACTS BASED ON IMAGE ANALYSIS
2-0421-US-06	US	Lapsed	13,948,135	7/22/2013	20140022444	1/23/2014			METHOD OF NOTIFYING USERS REGARDING MOTION ARTIFACTS BASED ON IMAGE ANALYSIS

PATENT

REEL: 066352 FRAME: 0731

Xperi Docket #	Country Code	Patent Status	Application #	Filing Date	Publication #	Publication Date	Patent #	Grant Date	Title
10002-0421-US-01	US	Lapsed	13/948,137	7/22/2013	20140022403	3/23/2014			METHOD OF NOTIFYING USERS REGARDING MOTION ARTIFACTS BASED ON IMAGE ANALYSIS
10002-0422-US-01	US	In Force	11/460,225	7/26/2006	20070201725	8/30/2007	7,804,983	9/28/2010	DIGITAL IMAGE ACQUISITION CONTROL AND CORRECTION METHOD AND APPARATUS
10002-0423-US-02	US	In Force	12/853,133	9/5/2010	20110058058	3/10/2011	8,005,268	9/23/2011	DIGITAL IMAGE ACQUISITION CONTROL AND CORRECTION METHOD AND APPARATUS
10002-0423-US-03	US	In Force	13/191,239	7/26/2011	20110279700	11/17/2011	8,265,348	9/11/2012	MODIFICATION OF POST-VIEWING PARAMETERS FOR DIGITAL IMAGES USING IMAGE REGION OR FEATURE INFORMATION
10002-0431-US-01	US	In Force	12/140,950	6/17/2008	200900003708	1/1/2009	9,129,381	9/8/2015	MODIFICATION OF POST-VIEWING PARAMETERS FOR DIGITAL IMAGES USING IMAGE REGION OR FEATURE INFORMATION
10002-0431-US-02	US	In Force	14/846,390	9/4/2015	20160065861	3/3/2016	9,692,964	9/27/2017	MODIFICATION OF POST-VIEWING PARAMETERS FOR DIGITAL IMAGES USING IMAGE REGION OR FEATURE INFORMATION
10002-0431-US-03	US	Lapsed	15/693,328	6/26/2017	20180019350	1/11/2018			FEATURE INFORMATION
10002-0432-US-01	US	In Force	12/141,042	6/17/2008	200900003652	1/1/2009	7,620,218	11/17/2009	REAL-TIME FACE TRACKING WITH REFERENCE IMAGES
10002-0432-US-02	US	In Force	12/619,587	11/16/2009	201000660727	3/11/2010	8,509,496	8/13/2013	REAL-TIME FACE TRACKING WITH REFERENCE IMAGES
10002-0432-US-03	US	In Force	13/964,682	8/12/2013	20130329955	12/17/2013	8,861,806	10/14/2014	REAL-TIME FACE TRACKING WITH REFERENCE IMAGES
10002-0433-US-01	US	In Force	12/142,134	6/19/2008	200800317339	12/25/2008	8,320,641	11/27/2012	METHOD AND APPARATUS FOR RED-EYE DETECTION USING PREVIEW OR OTHER REFERENCE IMAGES
10002-0433-US-02	US	In Force	12/947,731	11/16/2010	20110122297	5/26/2011	7,953,251	5/31/2011	METHOD AND APPARATUS FOR RED-EYE DETECTION AND CORRECTION OF FLASH-INDUCED EYE DEFECTS WITHIN DIGITAL IMAGES USING PREVIEW OR OTHER REFERENCE IMAGES
10002-0433-US-03	US	In Force	13/113,648	5/23/2011	20110221936	9/15/2011	8,135,184	3/13/2012	METHOD AND APPARATUS FOR DETECTION AND CORRECTION OF MULTIPLE IMAGE DEFECTS WITHIN DIGITAL IMAGES USING PREVIEW OR OTHER REFERENCE IMAGES
10002-0435-US-01	US	In Force	12/512,819	7/30/2009	20100026832	2/4/2010	8,384,793	2/26/2013	AUTOMATIC FACE AND SKIN BEAUTIFICATION USING FACE DETECTION
10002-0435-US-02	US	In Force	13/776,694	2/25/2013	20130229549	9/5/2013	8,683,241	3/25/2014	AUTOMATIC FACE AND SKIN BEAUTIFICATION USING FACE DETECTION
10002-0436-US-01	US	In Force	12/512,843	7/30/2009	20100026833	2/4/2010	9,007,480	4/14/2015	AUTOMATIC FACE AND SKIN BEAUTIFICATION USING FACE DETECTION
10002-0436-US-02	US	Lapsed	14/685,397	4/13/2015	20150356535	12/10/2015			AUTOMATIC FACE AND SKIN BEAUTIFICATION USING FACE DETECTION
10002-0437-US-01	US	In Force	12/636,618	12/11/2009	20110141300	6/16/2011	8,294,748	10/23/2012	PANORAMA IMAGING USING A BLENDING MAP
10002-0438-CN-01	CN	In Force	11/201103011076.1	9/9/2011	1031668315	6/19/2013	71,201,180,051,076.1	3/20/2016	STEREOSCOPIC (3D) PANORAMA CREATION ON HANDHELD DEVICE
10002-0438-CN-02	CN	Lapsed	11/20111030111.8	9/9/2011					STEREOSCOPIC (3D) PANORAMA CREATION ON HANDHELD DEVICE
10002-0438-GB-01	GB	In Force	1305502.5	9/9/2011	GB2498284A	7/10/2013	2498284	5/24/2017	STEREOSCOPIC (3D) PANORAMA CREATION ON HANDHELD DEVICE
10002-0438-GB-02	GB	In Force	1305502.5	9/9/2011	2013-543884	11/14/2013	5989992	7/15/2016	STEREOSCOPIC (3D) PANORAMA CREATION ON HANDHELD DEVICE
10002-0438-JP-01	JP	In Force	2013-2017698	9/9/2011	20130103527	9/23/2013	10-1711036	2/22/2017	STEREOSCOPIC (3D) PANORAMA CREATION ON HANDHELD DEVICE
10002-0438-KR-01	KR	In Force	10-20236629	9/9/2011	20110141329	6/16/2011			PANORAMA IMAGING USING SUPER-RESOLUTION
10002-0438-US-01	US	Lapsed	12/736,629	12/11/2009	20110141329	6/16/2011	10,080,006	9/18/2018	STEREOSCOPIC (3D) PANORAMA CREATION ON HANDHELD DEVICE
10002-0438-US-02	US	In Force	12/879,003	9/9/2010	20110141227	6/16/2011	11,115,638	9/7/2021	STEREOSCOPIC (3D) PANORAMA CREATION ON HANDHELD DEVICE
10002-0438-US-03	US	Lapsed	16/183,044	9/14/2018	20190089941	3/21/2019			STEREOSCOPIC (3D) PANORAMA CREATION ON HANDHELD DEVICE
10002-0438-WO-01	WO	Lapsed	PC/18/2011/007715	9/9/2010	WO/2012032412A2	3/15/2012			STEREOSCOPIC (3D) PANORAMA CREATION ON HANDHELD DEVICE
10002-0448-US-01	US	In Force	13/077,936	3/31/2011	20120250937	10/4/2012	8,947,503	2/3/2015	SCENE ENHANCEMENTS IN OFF-CENTER PERIPHERAL REGIONS FOR NONLINEAR LENS GEOMETRIES
10002-0449-US-01	US	In Force	13/234,146	9/19/2011	20130070126	3/21/2013	8,493,460	7/23/2013	REGISTRATION OF DIFFERENTLY SCALED IMAGES
10002-0451-US-01	US	In Force	13/078,971	4/2/2011	20120249726	10/4/2012	8,982,180	3/17/2015	NONLINEAR LENS GEOMETRIES
2-0452-CN-01	CN	Lapsed	201680024259.7	2/4/2016	107924042	4/17/2018			AN OPTICAL SYSTEM FOR AN IMAGE ACQUISITION DEVICE
2-0452-EP-01	EP	Lapsed	16702339.6	2/4/2016	3262451	1/3/2018			AN OPTICAL SYSTEM FOR AN IMAGE ACQUISITION DEVICE
2-0452-EP-02	EP	Pending	19206816.1	2/4/2016	3623857	3/18/2020			AN OPTICAL SYSTEM FOR AN IMAGE ACQUISITION DEVICE
2-0452-US-01	US	Lapsed	62/126,247	2/27/2015					OPTICAL SYSTEM FOR AN IMAGE ACQUISITION DEVICE
2-0452-US-02	US	In Force	15/063,863	2/25/2016	20180253559	9/1/2016	10,467,469	11/5/2019	OPTICAL SYSTEM FOR AN IMAGE ACQUISITION DEVICE
2-0452-WO-01	WO	Lapsed	PC/EP/2016/052395	2/4/2016	2016134942	9/1/2016			AN OPTICAL SYSTEM FOR AN IMAGE ACQUISITION DEVICE
2-0453-CN-01	CH	In Force	05747352.2	6/1/2005	1751695	2/14/2007	1751695	6/25/2008	IDENTIFICATION OF IMAGE CHARACTERISTICS
2-0453-DE-01	DE	In Force	05747352.2	6/1/2005	1751695	2/14/2007	602005007735.9	6/25/2008	IDENTIFICATION OF IMAGE CHARACTERISTICS
2-0453-EP-01	EP	Lapsed	05747352.2	6/1/2005	1751695	2/14/2007	1751695	6/25/2008	IDENTIFICATION OF IMAGE CHARACTERISTICS
2-0453-ES-01	ES	In Force	05747352.2	6/1/2005	1751695	2/14/2007	2,306,153	6/25/2008	IDENTIFICATION OF IMAGE CHARACTERISTICS
2-0453-FI-01	FI	In Force	05747352.2	6/1/2005	1751695	2/14/2007	1751695	6/25/2008	IDENTIFICATION OF IMAGE CHARACTERISTICS
2-0453-FR-01	FR	Lapsed	05747352.2	6/1/2005	1751695	2/14/2007	1751695	6/25/2008	IDENTIFICATION OF IMAGE CHARACTERISTICS
2-0453-GB-01	GB	Lapsed	200412175	6/1/2004			200412175	6/30/2004	IDENTIFICATION OF IMAGE CHARACTERISTICS
2-0453-GB-02	GB	Lapsed	05747352.2	6/1/2005	1751695	2/14/2007	1751695	6/25/2008	IDENTIFICATION OF IMAGE CHARACTERISTICS
2-0453-IN-01	IN	Lapsed	7043/DELMP/2006	6/1/2005		8/3/2007			A METHOD OF IDENTIFYING A CHARACTERISTIC OF AN IMAGE
2-0453-IT-01	IT	Lapsed	05747352.2	6/1/2005	1751695	2/14/2007	1751695	6/25/2008	IDENTIFICATION OF IMAGE CHARACTERISTICS
2-0453-NL-01	NL	In Force	05747352.2	6/1/2005	1751695	2/14/2007	1751695	6/25/2008	IDENTIFICATION OF IMAGE CHARACTERISTICS
2-0453-PL-01	PL	Lapsed	05747352.2	6/1/2005	1751695	2/14/2007	1751695	6/25/2008	IDENTIFICATION OF IMAGE CHARACTERISTICS
2-0453-SE-01	SE	Lapsed	05747352.2	6/1/2005	1751695	2/14/2007	1751695	6/25/2008	IDENTIFICATION OF IMAGE CHARACTERISTICS
2-0453-TK-01	TR	Lapsed	05747352.2	6/1/2005	1751695	2/14/2007	1751695	6/25/2008	IDENTIFICATION OF IMAGE CHARACTERISTICS
2-0453-US-01	US	In Force	11/596,655	6/1/2005	20080187183	8/7/2008	7,650,020	1/19/2010	IDENTIFICATION OF IMAGE CHARACTERISTICS
2-0453-WO-01	WO	Lapsed	PC/GB/2005/002156	6/1/2005	12/15/2005				IDENTIFICATION OF IMAGE CHARACTERISTICS

PATENT

REEL: 066352 FRAME: 0732

Xperi Docket #	Country Code	Patent Status	Application #	Filing Date	Publication #	Publication Date	Patent #	Grant Date	Title
10002-0474-US-01	US	In Force	11/363,500	2/27/2006	20070201728	8/30/2007	7,844,084	11/30/2010	ROTATION COMPENSATED IRIS COMPARISON
10002-0474-US-01	US	In Force	15/048,149	2/19/2016	20170244881	8/24/2017	9,742,001	8/22/2017	METHOD OF STABILIZING A SEQUENCE OF IMAGES
10002-0477-CN-01	CN	In Force	201780037476.4	6/2/2017	109477962	3/15/2019	41201780037476.4	3/23/2022	AN IRIS IMAGE ACQUISITION SYSTEM
10002-0477-DE-01	DE	In Force	17272577.3	6/2/2017	3430464	1/23/2019	3430464	1/1/2020	AN IRIS IMAGE ACQUISITION SYSTEM
10002-0477-EP-01	EP	Lapsed	17272577.3	6/2/2017	3430464	1/23/2019	3430464	1/1/2020	AN IRIS IMAGE ACQUISITION SYSTEM
10002-0477-FR-01	FR	In Force	17272577.3	6/2/2017	3430464	1/23/2019	3430464	1/1/2020	AN IRIS IMAGE ACQUISITION SYSTEM
10002-0477-GB-01	GB	In Force	17272577.3	6/2/2017	3430464	1/23/2019	3430464	1/1/2020	AN IRIS IMAGE ACQUISITION SYSTEM
10002-0477-IN-01	IN	Lapsed	201917001200	6/2/2017					IRIS IMAGE ACQUISITION SYSTEM
10002-0477-KR-01	KR	Lapsed	10-2019-0018516	6/2/2017	10-2019-0018516	2/22/2019			AN IRIS IMAGE ACQUISITION SYSTEM
10002-0477-NL-01	NL	In Force	17272577.3	6/2/2017	3430464	1/23/2019	3430464	1/1/2020	AN IRIS IMAGE ACQUISITION SYSTEM
10002-0477-US-01	US	In Force	15/186,283	6/17/2016	20170366761	12/21/2017	10,212,366	3/19/2019	IRIS IMAGE ACQUISITION SYSTEM
10002-0477-WO-01	WO	Lapsed	PC1/EP2017/063435	6/2/2017	20170215952	12/24/2017			IRIS IMAGE ACQUISITION SYSTEM
10002-0478-US-01	US	Lapsed	827249798	11/2/2015	20170124394	5/4/2017	10,176,377	1/8/2019	IRIS LIVENESS DETECTION FOR NEXT GENERATION SMARTPHONE BIOMETRICS
10002-0478-US-02	US	In Force	15/340,926	11/17/2016	2019033807	5/9/2019	10810423	10/20/2020	IRIS LIVENESS DETECTION FOR MOBILE DEVICES
10002-0478-US-03	US	In Force	16/240,120	1/4/2019	2019033807	5/9/2019	10810423	10/20/2020	IRIS LIVENESS DETECTION FOR MOBILE DEVICES
10002-0478-US-04	US	In Force	17073,247	10/16/2020	20210034864	2/4/2021	11,288,504	3/29/2022	IRIS LIVENESS DETECTION FOR MOBILE DEVICES
10002-0478-US-05	US	Pending	17704,822	3/25/2022					IRIS LIVENESS DETECTION FOR MOBILE DEVICES
10002-0526-US-01	US	In Force	12774,486	5/5/2010	20110273593	11/10/2011	8,482,656	7/9/2013	DIGITAL ZOOM ON BAYER
10002-0526-WO-01	WO	Lapsed	PC1/EP2011/057154	5/5/2010	WO2011138376A1	5/4/2011			DIGITAL ZOOM ON BAYER
10002-0548-US-01	US	In Force	12/905,367	10/45/2010	20120093419	4/19/2012	8,687,894	4/1/2014	CONTINUOUS EDGE AND DETAIL MAPPING USING A WEIGHTED MONOTONY MEASUREMENT
10002-0548-WO-01	WO	Lapsed	PC1/EP2011/067942	10/15/2010	WO2012049275				CONTINUOUS EDGE AND DETAIL MAPPING USING A WEIGHTED MONOTONY MEASUREMENT
10006-0001-CN-01	CN	In Force	200980117890.1	5/20/2009	102037717	4/27/2011	41200980117890.1	11/16/2013	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
10006-0001-CN-02	CN	In Force	201310438869.X	5/20/2009	103501416	1/8/2014	41201310438869.X	4/12/2017	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
10006-0001-DE-02	DE	In Force	18151530.5	5/20/2009	3328048	5/30/2018	3328048	4/21/2021	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
10006-0001-EP-01	EP	Lapsed	09763194.9	5/20/2009	2289235	3/2/2011			CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
10006-0001-EP-02	EP	Lapsed	18151530.5	5/20/2009	3328048	5/30/2018	3328048	4/21/2021	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
10006-0001-EP-03	EP	Pending	21169308.0	5/20/2009	3876510	9/8/2021			CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
10006-0001-FR-02	FR	In Force	18151530.5	5/20/2009	3328048	5/30/2018	3328048	4/21/2021	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
6-0001-GB-02	GB	In Force	18151530.5	5/20/2009	3328048	5/30/2018	3328048	4/21/2021	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
6-0001-JP-01	JP	Lapsed	2011510381	5/20/2009	2011-523538	8/11/2011			CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
6-0001-JP-02	JP	In Force	2014264372	5/20/2009		9/7/2016	5990076	8/19/2016	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
6-0001-JP-03	JP	In Force	2016-121809	5/20/2009	2016-197878	11/24/2016	6122184	4/7/2017	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
6-0001-JP-04	JP	In Force	2017-062561	5/20/2009	2017-163550	9/14/2017	6546613	6/28/2019	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
6-0001-JP-05	JP	In Force	2019-115436	5/20/2009	2019-220957	12/26/2019	6767543	9/23/2020	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
6-0001-KR-01	KR	In Force	10-2010-7028308	5/20/2009	20110010784	2/7/2011	10-1588877	1/20/2016	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
6-0001-KR-02	KR	In Force	10-2016-7001433	5/20/2009	20160013263	2/3/2016	10-1733443	4/28/2017	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
6-0001-KR-03	KR	In Force	10-2017-7011490	5/20/2009	10-2017-0051526	5/11/2017	10-1843994	3/26/2018	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
6-0001-NL-02	NL	In Force	18151530.5	5/20/2009	3328048	5/30/2018	3328048	4/21/2021	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
6-0001-SG-01	SG	In Force	2010079085	5/20/2009			166239	2/28/2011	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS

PATENT

REEL: 066352 FRAME: 0733

Xperi Docket #	Country Code	Patent Status	Application #	Filing Date	Publication #	Publication Date	Patent #	Grant Date	Title
6-0006-0001-US-02	US	In Force	12/935,504	5/20/2009	20110069189	3/24/2011	8,902,321	12/2/2014	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
6-0006-0001-US-03	US	In Force	14/447,477	7/30/2014	20140333787	11/13/2014	8,896,719	11/25/2014	SYSTEMS AND METHODS FOR PARALLAX MEASUREMENT USING CAMERA ARRAYS INCORPORATING 3 X 3 CAMERA CONFIGURATIONS
6-0006-0001-US-04	US	In Force	14/447,485	7/30/2014	20140333731	11/13/2014	9,041,823	5/26/2015	SYSTEMS AND METHODS FOR PERFORMING POST CAPTURE REFOCUS USING IMAGES CAPTURED BY CAMERA ARRAYS
6-0006-0001-US-05	US	In Force	14/447,494	7/30/2014	20140340539	11/23/2014	9,049,390	5/27/2015	CAPTURING AND PROCESSING OF IMAGES CAPTURED BY ARRAYS INCLUDING POLYCHROMATIC CAMERAS
6-0006-0001-US-06	US	In Force	14/447,508	7/30/2014	20140333764	11/13/2014	9,060,120	6/16/2015	SYSTEMS AND METHODS FOR GENERATING DEPTH MAPS USING IMAGES CAPTURED BY CAMERA ARRAYS
6-0006-0001-US-07	US	In Force	14/459,292	8/13/2014	20140354855	12/4/2014	9,049,367	6/2/2015	SYSTEMS AND METHODS FOR SYNTHESIZING HIGHER RESOLUTION IMAGES USING IMAGES CAPTURED BY CAMERA ARRAYS
6-0006-0001-US-08	US	In Force	14/459,296	8/13/2014	20140354844	12/4/2014	8,885,059	11/17/2014	SYSTEMS AND METHODS FOR MEASURING DEPTH USING IMAGES CAPTURED BY CAMERA ARRAYS
6-0006-0001-US-09	US	In Force	14/475,449	9/2/2014	20140368883	12/18/2014	9,060,124	6/16/2015	CAPTURING AND PROCESSING OF NEAR-IR IMAGES INCLUDING OCCLUSIONS USING CAMERA ARRAYS
6-0006-0001-US-10	US	In Force	14/475,466	9/2/2014	20140368662	12/18/2014	9,049,391	6/2/2015	CAPTURING AND PROCESSING OF IMAGES CAPTURED BY CAMERA ARRAYS INCLUDING HETEROGENEOUS OPTICS
6-0006-0001-US-11	US	In Force	14/475,473	9/2/2014	20140368684	12/18/2014	9,060,142	6/16/2015	CAPTURING AND PROCESSING OF HIGH DYNAMIC RANGE IMAGES USING CAMERA ARRAYS
6-0006-0001-US-12	US	In Force	14/475,477	9/2/2014	20140368685	12/18/2014	9,041,829	5/26/2015	CAPTURING AND PROCESSING OF IMAGES CAPTURED BY CAMERA ARRAYS INCLUDING CAMERAS DEDICATED TO SAMPLING LUMA AND CAMERAS DEDICATED TO SAMPLING CHROMA
6-0006-0001-US-13	US	In Force	14/497,159	9/25/2014	20150009362	1/8/2015	9,060,121	6/16/2015	ARRAYS INCLUDING AT LEAST ONE BAYER CAMERA
6-0006-0001-US-14	US	In Force	14/497,171	9/25/2014	20150009353	1/8/2015	9,055,213	6/9/2015	ARRAYS INCLUDING AT LEAST ONE BAYER CAMERA
6-0006-0001-US-15	US	In Force	14/497,180	9/25/2014	20150009354	1/8/2015	9,077,893	7/7/2015	CAPTURING AND PROCESSING OF IMAGES CAPTURED BY NON-GRID CAMERA ARRAYS
6-0006-0001-US-16	US	In Force	14/704,909	5/5/2015	20150235371	8/20/2015	9,235,898	1/12/2016	SYSTEMS AND METHODS FOR GENERATING DEPTH MAPS USING LIGHT FOCUSED ON AN IMAGE SENSOR BY A LENS ELEMENT ARRAY
6-0006-0001-US-17	US	In Force	14/988,670	1/5/2016	20160267665	9/15/2016	9,576,369	2/21/2017	SYSTEMS AND METHODS FOR GENERATING DEPTH MAPS USING IMAGES CAPTURED BY CAMERA ARRAYS INCORPORATING CAMERAS HAVING DIFFERENT FIELDS OF VIEW
6-0006-0001-US-18	US	In Force	15/095,930	4/11/2016	20160277195	8/4/2016	9,485,496	11/4/2016	SYSTEMS AND METHODS FOR MEASURING DEPTH USING IMAGES CAPTURED BY A CAMERA ARRAY INCLUDING CAMERAS SURROUNDING A CENTRAL CAMERA
6-0006-0001-US-19	US	In Force	15/242,598	8/22/2016	20170006233	1/5/2017	9,712,759	7/18/2017	SYSTEMS AND METHODS FOR GENERATING DEPTH MAPS USING A CAMERA ARRAYS INCORPORATING MONOCHROME AND COLOR CAMERAS
6-0006-0001-US-20	US	In Force	15/651,877	7/17/2017	20180007284	1/4/2018	10,027,901	7/17/2018	SYSTEMS AND METHODS FOR GENERATING DEPTH MAPS USING A CAMERA ARRAYS INCORPORATING MONOCHROME AND COLOR CAMERAS
6-0006-0002-CA-01	CA	Lapsed	2821985	12/14/2011					SYSTEM AND METHODS FOR SYNTHESIZING HIGH RESOLUTION IMAGES USING SUPER-RESOLUTION PROCESSES
6-0002-DE-01	DE	In Force	11848308.0	12/14/2011	2652678	10/23/2013	2652678	9/20/2017	SYSTEM AND METHODS FOR SYNTHESIZING HIGH RESOLUTION IMAGES USING SUPER-RESOLUTION PROCESSES
6-0002-EP-01	EP	Lapsed	11848308.0	12/14/2011	2652678	10/23/2013	2652678	9/20/2017	SYSTEM AND METHODS FOR SYNTHESIZING HIGH RESOLUTION IMAGES USING SUPER-RESOLUTION PROCESSES
6-0002-FR-01	FR	Lapsed	11848308.0	12/14/2011	2652678	10/23/2013	2652678	9/20/2017	SYSTEM AND METHODS FOR SYNTHESIZING HIGH RESOLUTION IMAGES USING SUPER-RESOLUTION PROCESSES
6-0002-GB-01	GB	Lapsed	11848308.0	12/14/2011	2652678	10/23/2013	2652678	9/20/2017	SYSTEM AND METHODS FOR SYNTHESIZING HIGH RESOLUTION IMAGES USING SUPER-RESOLUTION PROCESSES
6-0002-SG-01	SG	Lapsed	20133045703	12/14/2011			191151	3/3/2015	SYSTEM AND METHODS FOR SYNTHESIZING HIGH RESOLUTION IMAGES USING SUPER-RESOLUTION PROCESSES
6-0002-US-01	US	In Force	12/967,807	12/14/2010	20120147205	6/14/2012	8,878,950	11/4/2014	SYSTEMS AND METHODS FOR SYNTHESIZING HIGH RESOLUTION IMAGES USING SUPER-RESOLUTION PROCESSES
6-0002-US-02	US	In Force	14/519,659	10/21/2014	20150036014	2/5/2015	9,361,662	6/7/2016	SYSTEMS AND METHODS FOR SYNTHESIZING HIGH RESOLUTION IMAGES USING A SET OF INDEPENDENTLY CONTROLLABLE IMAGERS
6-0002-US-03	US	In Force	14/520,266	10/21/2014	20150042833	2/12/2015	9,047,684	6/2/2015	SYSTEMS AND METHODS FOR DYNAMIC REFOCUSING OF HIGH RESOLUTION IMAGES GENERATED USING GEOMETRICALLY REGISTERED IMAGES
6-0002-US-04	US	In Force	14/520,269	10/21/2014	20150036015	2/5/2015	9,041,824	5/26/2015	SYSTEMS AND METHODS FOR SYNTHESIZING HIGH RESOLUTION IMAGES USING SUPER-RESOLUTION PROCESSES
6-0002-US-05	US	In Force	15/170,788	6/1/2016	20170053382	2/23/2017	10,366,472	7/30/2019	SYSTEMS AND METHODS FOR SYNTHESIZING HIGH RESOLUTION IMAGES USING IMAGES CAPTURED BY AN ARRAY OF INDEPENDENTLY CONTROLLABLE IMAGERS
6-0002-US-06	US	In Force	16/521,365	7/24/2019	20190347758	11/14/2019	10,839,485	11/17/2020	SYSTEMS AND METHODS FOR SYNTHESIZING HIGH RESOLUTION IMAGES USING IMAGES CAPTURED BY AN ARRAY OF INDEPENDENTLY CONTROLLABLE IMAGERS

PATENT

REEL: 066352 FRAME: 0734

Xperi Docket #	Country Code	Patent Status	Application #	Filing Date	Publication #	Publication Date	Patent #	Grant Date	Title
6-0006-0002-US-07	US	Pending	17/098,432	12/15/2020	20210333927	5/6/2021			SYSTEMS AND METHODS FOR SYNTHESIZING HIGH RESOLUTION IMAGES USING IMAGES CAPTURED BY AN ARRAY OF INDEPENDENTLY CONTROLLABLE IMAGERS
6-0006-0003-EP-01	EP	Lapsed	10832330.4	11/22/2010	2502115	9/26/2012			CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
6-0006-0003-TW-01	TW	In Force	99147177	12/31/2010	2011228382	5/21/2016	9535292	5/21/2016	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
6-0006-0003-US-03	US	In Force	12/952,106	12/22/2010	20110122308	5/26/2011	8,514,491	8/20/2013	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
6-0006-0003-US-04	US	In Force	13/948,054	7/22/2013	20130308197	11/21/2013	9,861,089	10/14/2014	CAPTURING AND PROCESSING OF IMAGES INCLUDING OCCLUSIONS CAPTURED BY HETEROGENEOUS CAMERA ARRAYS
6-0006-0003-US-05	US	In Force	14/475,481	9/2/2014	20140368686	12/18/2014	9,264,610	2/16/2016	CAPTURING AND PROCESSING OF IMAGES CAPTURED BY CAMERA ARRAYS INCORPORATING CAMERAS WITH TELEPHOTO AND CONVENTIONAL LENSES TO GENERATE DEPT MAPS
6-0006-0003-US-06	US	Lapsed	15/043,997	2/15/2016	20160269664	9/15/2016			CAPTURING AND PROCESSING OF IMAGES CAPTURED BY CAMERA ARRAYS INCORPORATING CAMERAS WITH TELEPHOTO AND CONVENTIONAL LENSES TO GENERATE DEPT MAPS
6-0006-0003-US-07	US	In Force	15/456,931	3/13/2017	20170187933	6/29/2017	10,306,120	5/28/2019	CAPTURING AND PROCESSING OF IMAGES CAPTURED BY CAMERA ARRAYS INCORPORATING CAMERAS WITH TELEPHOTO AND CONVENTIONAL LENSES TO GENERATE DEPT MAPS
6-0006-0003-US-08	US	In Force	16/422,210	5/24/2019	20190289176	9/19/2019	10,735,635	8/4/2020	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
6-0006-0004-US-01	US	In Force	12/936,134	12/22/2010	20110080487	4/7/2011	8,866,920	10/21/2014	CAMERA ARRAYS INCORPORATING 3 X 3 IMAGER CONFIGURATIONS
6-0006-0004-US-02	US	In Force	14/459,276	8/13/2014	20140354843	12/4/2014	9,049,411	6/27/2015	CAPTURING AND PROCESSING OF IMAGES INCLUDING OCCLUSIONS CAPTURED BY ARRAYS OF LUMA AND CHROMA CAMERAS
6-0006-0004-US-03	US	In Force	14/459,280	8/13/2014	20140347509	11/27/2014	9,124,815	9/17/2015	SYSTEMS AND METHODS FOR GENERATING DEPTH MAPS USING A SET OF IMAGES CONTAINING A BASELINE IMAGE
6-0006-0004-US-04	US	In Force	14/459,282	8/13/2014	20140355870	12/4/2014	9,094,661	7/28/2015	SYSTEMS AND METHODS FOR SYNTHESIZING HIGHER RESOLUTION IMAGES USING A SET OF IMAGES CONTAINING A BASELINE IMAGE
6-0006-0004-US-05	US	In Force	14/459,283	8/13/2014	20140354853	12/4/2014	9,055,233	6/9/2015	SYSTEMS AND METHODS FOR SYNTHESIZING HIGHER RESOLUTION IMAGES USING A SET OF IMAGES CONTAINING A BASELINE IMAGE
6-0006-0004-US-06	US	In Force	14/459,286	8/13/2014	20140354854	12/4/2014	9,191,580	11/17/2015	CAPTURING AND PROCESSING OF IMAGES INCLUDING OCCLUSIONS CAPTURED BY CAMERA ARRAYS
6-0006-0004-US-07	US	In Force	14/459,288	8/13/2014	20140354773	12/4/2014	9,049,381	6/7/2015	SYSTEMS AND METHODS FOR NORMALIZING IMAGE DATA CAPTURED BY CAMERA ARRAYS
6-0006-0004-US-08	US	In Force	14/704,920	5/5/2015	2015024151	8/20/2015	9,188,765	11/17/2015	CAPTURING AND PROCESSING OF IMAGES INCLUDING OCCLUSIONS FOCUSED ON AN IMAGE SENSOR BY A LENS STACK ARRAY
6-0006-0004-US-09	US	In Force	14/943,009	11/16/2015	20160269650	9/15/2015	9,749,547	8/29/2017	CAPTURING AND PROCESSING OF IMAGES USING CAMERA ARRAY INCORPORATING BAYER CAMERAS HAVING DIFFERENT FIELDS OF VIEW
6-0006-0004-US-10	US	In Force	15/687,882	8/28/2017	20180048830	2/15/2018	10,142,560	11/27/2018	CAPTURING AND PROCESSING OF IMAGES INCLUDING OCCLUSIONS FOCUSED ON AN IMAGE SENSOR BY A LENS STACK ARRAY
6-0004-US-11	US	In Force	16/195,566	10/26/2018	20190109398	4/11/2019	10,375,319	8/6/2019	CAPTURING AND PROCESSING OF IMAGES INCLUDING OCCLUSIONS FOCUSED ON AN IMAGE SENSOR BY A LENS STACK ARRAY
6-0004-US-12	US	In Force	16/529,522	8/1/2019	20190356863	11/21/2019	10,694,114	6/23/2020	CAPTURING AND PROCESSING OF IMAGES INCLUDING OCCLUSIONS FOCUSED ON AN IMAGE SENSOR BY A LENS STACK ARRAY
6-0004-US-13	US	Pending	16/907,016	6/19/2020	20200389604	12/16/2020	11,412,158	8/9/2022	FABRICATION PROCESS FOR MASTERING IMAGE LENS ARRAYS
6-0005-EP-01	EP	Lapsed	11/757001.0	3/17/2011	2548071	1/23/2013			FABRICATION PROCESS FOR MASTERING IMAGE LENS ARRAYS
6-0005-JP-01	JP	Lapsed	2013500207	3/17/2011	2013522681	6/13/2013			FABRICATION PROCESS FOR MASTERING IMAGE LENS ARRAYS
6-0005-KR-01	KR	Lapsed	201201270271.21	3/17/2011	10-2013-0004505	3/10/2013	1841.8	7/31/2013	FABRICATION PROCESS FOR MASTERING IMAGE LENS ARRAYS
6-0005-SG-01	SG	Lapsed	2012068938	3/17/2011					FABRICATION PROCESS FOR MASTERING IMAGE LENS ARRAYS
6-0005-US-02	US	In Force	13/950,429	3/17/2011	20110241234	10/16/2011	8,231,814	7/31/2012	FABRICATION PROCESS FOR MASTERING IMAGE LENS ARRAYS
6-0006-CN-01	CN	In Force	201280029399.5	5/11/2012	103765864	4/30/2014	21,201,280,293,999.5	7/4/2017	SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING ARRAY CAMERA IMAGE DATA
6-0006-CN-02	CN	In Force	201710422675.9	5/11/2012	107404609	11/28/2017	21,201,704,226,759.9	2/11/2020	SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING ARRAY CAMERA IMAGE DATA
6-0006-DE-01	DE	In Force	12/782935.6	5/11/2012	2708019	3/19/2014	2708019	10/16/2019	SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING ARRAY CAMERA IMAGE DATA
6-0006-EP-01	EP	Lapsed	12/782935.6	5/11/2012	2708019	3/19/2014	2708019	10/16/2019	SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING ARRAY CAMERA IMAGE DATA
6-0006-FR-01	FR	In Force	12/782935.6	5/11/2012	2708019	3/19/2014	2708019	10/16/2019	SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING ARRAY CAMERA IMAGE DATA
6-0006-GB-01	GB	In Force	12/782935.6	5/11/2012	2708019	3/19/2014	2708019	10/16/2019	SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING ARRAY CAMERA IMAGE DATA
6-0006-JP-03	JP	Lapsed	2014510572	5/11/2012	2014-519741	8/14/2014			SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING ARRAY CAMERA IMAGE DATA
6-0006-NL-01	NL	In Force	10-2013-7032457	5/11/2012	10-2014-0045373	4/16/2014	10-1973822	4/23/2019	SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING ARRAY CAMERA IMAGE DATA
6-0006-NL-02	NL	In Force	10-2013-7032457	5/11/2012	2708019	3/19/2014	2708019	10/16/2019	SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING ARRAY CAMERA IMAGE DATA
6-0006-US-02	US	In Force	13/470,252	5/11/2012	20120287291	11/15/2012	8,305,456	11/16/2012	SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING ARRAY CAMERA IMAGE DATA
6-0006-US-03	US	In Force	13/668,057	11/2/2012	20130057710	3/7/2013	8,692,893	4/8/2014	SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING ARRAY CAMERA IMAGE DATA
6-0006-US-04	US	In Force	14/246,948	4/7/2014	20140218546	8/7/2014	9,197,821	11/24/2015	SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING ARRAY CAMERA IMAGE DATA

PATENT

REEL: 066352 FRAME: 0735

Xperi Docket #	Country Code	Patent Status	Application #	Filing Date	Publication #	Publication Date	Patent #	Grant Date	Title
6-0006-0006-US-05	US	In Force	141936199	11/9/2015	20160269626	9/15/2016	9,866,739	1/9/2018	SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING ARRAY CAMERA IMAGE DATA
6-0006-0006-US-06	US	In Force	157864429	1/8/2018	20180311852	5/10/2018	10,218,889	2/26/2019	SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING ARRAY CAMERA IMAGE DATA
6-0006-0006-US-07	US	In Force	162717709	2/8/2018	20190374040	6/6/2019	10,742,861	3/13/2020	SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING ARRAY CAMERA IMAGE DATA
6-0006-0007-US-02	US	In Force	131106804	5/12/2011	20110279721	11/17/2011	8,928,793	1/6/2015	IMAGER ARRAY INTERFACES
6-0006-0007-US-03	US	In Force	147880907	10/27/2011	20160269627	9/15/2016	9,996,148	4/3/2018	IMAGER ARRAY INTERFACES
6-0006-0007-US-04	US	In Force	157943152	4/2/2018	20180227511	8/9/2018	10,455,168	10/27/2019	IMAGER ARRAY INTERFACES
6-0006-0008-EP-01	EP	Lapsed	12804266.0	6/25/2012	2726930	5/7/2014			OPTICAL ARRANGEMENTS FOR USE WITH AN ARRAY CAMERA
6-0006-0008-JP-01	JP	Lapsed	2014518889	6/25/2012	2014-521117	8/25/2014			OPTICAL ARRANGEMENTS FOR USE WITH AN ARRAY CAMERA
6-0006-0008-KR-01	KR	Lapsed	10-2013-7035076	6/25/2012					OPTICAL ARRANGEMENTS FOR USE WITH AN ARRAY CAMERA
6-0006-0008-SE-01	SE	In Force	2013093141	6/25/2012			2013093141	12/2/2014	OPTICAL ARRANGEMENTS FOR USE WITH AN ARRAY CAMERA
6-0006-0008-US-02	US	Lapsed	137536520	6/28/2012	20130003184	1/3/2013	8,804,255	8/12/2014	OPTICAL ARRANGEMENTS FOR USE WITH AN ARRAY CAMERA
6-0006-0008-US-03	US	Lapsed	137832120	3/16/2013	20130265459	10/10/2013			OPTICAL ARRANGEMENTS FOR USE WITH AN ARRAY CAMERA
6-0006-0008-US-04	US	In Force	147281594	5/19/2014	20140387748	11/27/2014	9,128,228	9/8/2015	OPTICAL ARRANGEMENTS FOR USE WITH AN ARRAY CAMERA
6-0006-0008-US-05	US	Lapsed	147705919	5/6/2015	20150244934	8/27/2015	9,578,237	2/23/2017	ARRAY CAMERA INCORPORATING OPTICS WITH MODULATION OF IMAGES USED IN SUPER-RESOLUTION PROCESSING
6-0006-0008-US-06	US	Lapsed	147705925	5/6/2015	20150296137	10/15/2015	9,516,222	12/6/2016	ARRAY CAMERA INCORPORATING MONOLITHIC ARRAY CAMERA MODULES WITH HIGH MTF LENS
6-0006-0009-DE-01	DE	In Force	13751714.0	2/23/2013	2817955	12/31/2014	2817955	4/13/2018	SYSTEMS AND METHODS FOR THE MANIPULATION OF CAPTURED LIGHT FIELD IMAGE DATA
6-0006-0009-EP-01	EP	Lapsed	13751714.0	2/23/2013	2817955	12/31/2014	2817955	4/11/2018	SYSTEMS AND METHODS FOR THE MANIPULATION OF CAPTURED LIGHT FIELD IMAGE DATA
6-0006-0009-FR-01	FR	Lapsed	13751714.0	2/23/2013	2817955	12/31/2014	2817955	4/11/2018	SYSTEMS AND METHODS FOR THE MANIPULATION OF CAPTURED LIGHT FIELD IMAGE DATA
6-0006-0009-GB-01	GB	Lapsed	13751714.0	2/23/2013	2817955	12/31/2014	2817955	4/11/2018	SYSTEMS AND METHODS FOR THE MANIPULATION OF CAPTURED LIGHT FIELD IMAGE DATA
6-0006-0009-IL-01	IL	In Force	13751714.0	2/23/2013	2817955	12/31/2014	2817955	4/11/2018	SYSTEMS AND METHODS FOR THE MANIPULATION OF CAPTURED LIGHT FIELD IMAGE DATA
6-0006-0009-US-02	US	In Force	13773284	2/23/2013	20130215108	3/22/2013	9,412,206	8/9/2016	SYSTEMS AND METHODS FOR THE MANIPULATION OF CAPTURED LIGHT FIELD IMAGE DATA
6-0006-0009-US-03	US	In Force	147705914	5/6/2015	2015025476	8/20/2015	9,754,422	9/5/2017	SYSTEMS AND METHOD FOR PERFORMING DEPTH BASED IMAGE EDITING
6-0006-0009-US-04	US	In Force	157694700	9/1/2017	20170365104	12/21/2017	10,311,649	6/4/2019	SYSTEMS AND METHOD FOR PERFORMING DEPTH BASED IMAGE EDITING
6-0006-0010-US-02	US	In Force	147028278	9/16/2013	20140079336	3/20/2014	9,214,013	12/15/2015	SYSTEMS AND METHODS FOR CORRECTING USER IDENTIFIED ARTIFACTS IN LIGHT FIELD IMAGES
6-0006-0011-US-02	US	In Force	147204990	3/17/2014			9,521,416	12/13/2016	SYSTEMS AND METHODS FOR IMAGE DATA COMPRESSION
6-0006-0012-CN-01	CN	In Force	201380029203.7	5/1/2013	1043355246	2/4/2015	21201380029203.7	9/4/2018	CAMERA MODULES PATTERED WITH PI FILTER GROUPS
6-0006-0012-EP-01	EP	Lapsed	13785220.8	5/1/2013	2845167	3/13/2015			CAMERA MODULES PATTERED WITH PI FILTER GROUPS
6-0006-0012-JP-01	JP	Lapsed	2015510443	5/1/2013	2015-521411	7/27/2015			CAMERA MODULES PATTERED WITH PI FILTER GROUPS
6-0006-0012-US-02	US	In Force	137875248	5/1/2013	20130293760	11/7/2013	9,210,392	12/8/2015	CAMERA MODULES PATTERED WITH PI FILTER GROUPS
6-0006-0013-US-03	US	In Force	147952195	11/25/2015	20160165147	6/9/2016	9,706,132	7/11/2017	PASSIVE ALIGNMENT OF ARRAY CAMERA MODULES CONSTRUCTED FROM LENS STACK ARRAYS AND
6-0006-0013-US-01	US	In Force	147195675	3/3/2014			9,638,883	5/2/2017	SENSORS BASED UPON ALIGNMENT INFORMATION OBTAINED DURING MANUFACTURE OF ARRAY
6-0006-0014-US-03	US	In Force	147079510	11/13/2013	20140122810	5/15/2014	9,143,711	9/22/2015	CAMERA MODULES USING AN ACTIVE ALIGNMENT PROCESS
6-0014-US-04	US	In Force	147855715	9/16/2015	20160249001	8/25/2016	9,749,568	3/29/2017	SYSTEMS AND METHODS FOR ARRAY CAMERA FOCAL PLANE CONTROL
6-0015-US-02	US	In Force	147200629	3/7/2014			9,445,003	9/13/2016	SYSTEMS AND METHODS FOR SYNTHESIZING HIGH RESOLUTION IMAGES USING IMAGE
6-0015-US-03	US	In Force	15258947	9/7/2016	20170070673	3/9/2017	9,955,070	4/24/2018	DECONVOLUTION BASED ON MOTION AND DEPTH INFORMATION
6-0015-US-04	US	In Force	15960168	4/23/2018	20180302554	10/18/2018	10,542,208	1/21/2020	SYSTEMS AND METHODS FOR SYNTHESIZING HIGH RESOLUTION IMAGES USING IMAGE
6-0016-US-02	US	Lapsed	147199977	3/6/2014	20140287286	9/18/2014			SYSTEMS AND METHODS FOR PROVIDING AN ARRAY PROJECTOR
6-0016-US-03	US	Lapsed	15287602	10/6/2016					SYSTEMS AND METHODS FOR PROVIDING AN ARRAY PROJECTOR
6-0017-CN-01	CN	In Force	201380040238.0	6/28/2013	104508681	4/8/2015	21201380040238.0	10/30/2018	SYSTEMS AND METHODS FOR DETECTING DEFECTIVE CAMERA ARRAYS, OPTIC ARRAYS AND SENSORS
6-0017-EP-01	EP	Lapsed	13810229.8	6/28/2013	2873028	5/20/2015			SYSTEMS AND METHODS FOR DETECTING DEFECTIVE CAMERA ARRAYS, OPTIC ARRAYS AND SENSORS
6-0017-JP-01	JP	Lapsed	2015520605	6/28/2013	2015-534734	12/3/2015			SYSTEMS AND METHODS FOR DETECTING DEFECTIVE CAMERA ARRAYS, OPTIC ARRAYS AND SENSORS
6-0017-KR-01	KR	Lapsed	10-2015-7002308	6/28/2013					SYSTEMS AND METHODS FOR DETECTING DEFECTIVE CAMERA ARRAYS, OPTIC ARRAYS AND SENSORS
6-0017-US-02	US	Lapsed	137931724	7/28/2013	20140002675	3/2/2014	9,100,635	3/4/2015	SYSTEMS AND METHODS FOR DETECTING DEFECTIVE CAMERA ARRAYS AND OPTIC ARRAYS
6-0017-US-03	US	In Force	14905412	7/21/2015	20150326852	11/12/2015	9,807,382	10/31/2017	SYSTEMS AND METHODS FOR DETECTING DEFECTIVE CAMERA ARRAYS AND OPTIC ARRAYS
6-0017-US-04	US	In Force	157797126	10/30/2017	20180109782	4/19/2018	10,354,241	6/25/2019	SYSTEMS AND METHODS FOR DETECTING DEFECTIVE CAMERA ARRAYS AND OPTIC ARRAYS
6-0018-AU-01	AU	Lapsed	2013305770	8/21/2013					SYSTEMS AND METHODS FOR PARALLAX DETECTION AND CORRECTION IN IMAGES CAPTURED USING
6-0018-CA-01	CA	Lapsed	2881131	8/21/2013					ARRAY CAMERAS
6-0018-CN-01	CN	In Force	201380048735.5	3/23/2013	104662589	5/27/2015	21201380048735.5	8/4/2017	SYSTEMS AND METHODS FOR PARALLAX DETECTION AND CORRECTION IN IMAGES CAPTURED USING

PATENT

REEL: 066352 FRAME: 0736

Xperi Docket #	Country Code	Patent Status	Application #	Filing Date	Publication #	Publication Date	Patent #	Grant Date	Title
6-0006-0018-CN-02	CN	In Force	201710550511.4	8/21/2013	107346061	11/14/2017	21,201,710,505,11.4	4/24/2020	SYSTEMS AND METHODS FOR PARALLAX DETECTION AND CORRECTION IN IMAGES CAPTURED USING ARRAY CAMERAS
6-0006-0018-DE-01	DE	In Force	13830945.5	8/21/2013	2888720	7/1/2015	60203076353.4 (EP2888720)	3/17/2021	SYSTEM AND METHOD FOR DEPTH ESTIMATION FROM IMAGES CAPTURED USING ARRAY CAMERAS
6-0006-0018-EP-01	EP	Lapsed	13830945.5	8/21/2013	2888720	7/1/2015	2888720	3/17/2021	SYSTEM AND METHOD FOR DEPTH ESTIMATION FROM IMAGES CAPTURED USING ARRAY CAMERAS
6-0006-0018-EP-02	EP	Pending	21155002.5	8/21/2013	3869797	8/25/2021			SYSTEMS AND METHODS FOR PARALLAX DETECTION AND CORRECTION IN IMAGES CAPTURED USING ARRAY CAMERAS
6-0006-0018-FR-01	FR	In Force	13830945.5	8/21/2013	2888720	7/1/2015	2888720	3/17/2021	SYSTEM AND METHOD FOR DEPTH ESTIMATION FROM IMAGES CAPTURED USING ARRAY CAMERAS
6-0006-0018-GB-01	GB	In Force	13830945.5	8/21/2013	2888720	7/1/2015	2888720	3/17/2021	SYSTEM AND METHOD FOR DEPTH ESTIMATION FROM IMAGES CAPTURED USING ARRAY CAMERAS
6-0006-0018-KR-01	KR	In Force	10-2015-7008433	8/21/2013	10-2015-0046113	4/29/2015	10-2111181	5/8/2020	SYSTEM AND METHOD FOR DEPTH ESTIMATION FROM IMAGES CAPTURED USING ARRAY CAMERAS
6-0006-0018-NL-01	NL	In Force	13830945.5	8/21/2013	2888720	7/1/2015	2888720	3/17/2021	SYSTEM AND METHOD FOR DEPTH ESTIMATION FROM IMAGES CAPTURED USING ARRAY CAMERAS
6-0006-0018-SG-01	SG	In Force	11201500910R	8/21/2013			11201500910R	10/15/2015	SYSTEMS AND METHODS FOR PARALLAX DETECTION AND CORRECTION IN IMAGES CAPTURED USING ARRAY CAMERAS
6-0006-0018-US-03	US	In Force	13/972,881	8/21/2013			8,619,082	12/31/2013	ARRAY CAMERAS THAT CONTAIN OCCLUSIONS USING SUBSETS OF IMAGES TO PERFORM DEPTH ESTIMATION
6-0006-0018-US-04	US	In Force	14/144,458	12/30/2013			8,780,113	7/15/2014	SYSTEMS AND METHODS FOR PERFORMING DEPTH ESTIMATION USING IMAGE DATA FROM MULTIPLE SPECTRAL CHANNELS
6-0006-0018-US-05	US	In Force	14/329,756	7/11/2014	20140321712	10/30/2014	9,240,049	1/19/2016	SYSTEMS AND METHODS FOR MEASURING DEPTH USING AN ARRAY OF INDEPENDENTLY CONTROLLABLE CAMERAS
6-0006-0018-US-06	US	In Force	14/526,364	10/28/2014	20150049915	2/19/2015	9,123,117	9/1/2015	SYSTEMS AND METHODS FOR GENERATING DEPTH MAPS AND CORRESPONDING CONFIDENCE MAPS INDICATING DEPTH ESTIMATION RELIABILITY
6-0006-0018-US-07	US	In Force	14/526,377	10/28/2014	20150042766	2/12/2015	9,123,118	9/1/2015	SYSTEMS AND METHODS FOR MEASURING DEPTH USING AN ARRAY CAMERA EMPLOYING A BAYER FILTER
6-0006-0018-US-08	US	In Force	14/526,392	10/28/2014	20150049916	2/19/2015	9,235,900	1/12/2016	PIXELS IN A SET OF IMAGES CAPTURED FROM DIFFERENT VIEWPOINTS
6-0006-0018-US-09	US	In Force	14/526,398	10/28/2014	20150049917	2/19/2015	9,147,254	9/29/2015	SYSTEMS AND METHODS FOR MEASURING DEPTH IN THE PRESENCE OF OCCLUSIONS USING A SUBSET OF IMAGES
6-0006-0018-US-10	US	In Force	14/526,407	10/28/2014	20150042767	2/12/2015	9,129,377	9/8/2015	SYSTEMS AND METHODS FOR MEASURING DEPTH BASED UPON OCCLUSION PATTERNS IN IMAGES
6-0006-0018-US-11	US	In Force	14/988,680	1/5/2016	20160267672	9/15/2016	9,858,673	1/27/2018	SYSTEMS AND METHODS FOR ESTIMATING DEPTH AND VISIBILITY FROM A REFERENCE VIEWPOINT FOR PIXELS IN A SET OF IMAGES CAPTURED FROM DIFFERENT VIEWPOINTS
6-0006-0018-US-12	US	In Force	15/858,974	12/29/2017	20180211402	7/26/2018	10,380,752	8/13/2019	SYSTEMS AND METHODS FOR ESTIMATING DEPTH AND VISIBILITY FROM A REFERENCE VIEWPOINT FOR PIXELS IN A SET OF IMAGES CAPTURED FROM DIFFERENT VIEWPOINTS
6-0006-0018-US-13	US	In Force	16/537,369	8/9/2019	20190362515	11/28/2019	10,909,707	2/2/2021	SYSTEM AND METHODS FOR MEASURING DEPTH USING AN ARRAY OF INDEPENDENTLY CONTROLLABLE CAMERAS
6-0018-US-14	US	Pending	17/162,542	1/29/2021	20210150748	5/20/2021			SYSTEMS AND METHODS FOR ESTIMATING DEPTH AND VISIBILITY FROM A REFERENCE VIEWPOINT FOR PIXELS IN A SET OF IMAGES CAPTURED FROM DIFFERENT VIEWPOINTS
6-0019-US-03	US	In Force	14/186,871	2/21/2014	20140232822	8/21/2014	9,462,164	10/4/2016	CAPTURED LIGHT FIELDS, ARRAY GEOMETRY, AND PARALLAX INFORMATION
6-0019-US-04	US	Lapsed	15/233,605	8/31/2016	20170054901	2/23/2017			CAPTURED LIGHT FIELDS, ARRAY GEOMETRY, AND PARALLAX INFORMATION
6-0019-US-05	US	In Force	15/598,900	5/19/2017	20170257562	9/7/2017	10,009,538	6/26/2018	CAPTURED LIGHT FIELDS, ARRAY GEOMETRY, AND PARALLAX INFORMATION
6-0020-US-02	US	In Force	14/188,521	2/24/2014	20140240328	8/28/2014	9,374,512	6/21/2016	THIN FORM FACTOR COMPUTATIONAL ARRAY CAMERAS AND MODULAR ARRAY CAMERAS
6-0020-US-03	US	In Force	14/188,524	2/24/2014	20140240329	8/28/2014	9,253,380	2/2/2016	THIN FORM FACTOR COMPUTATIONAL ARRAY CAMERAS AND MODULAR ARRAY CAMERAS
6-0020-US-04	US	In Force	15/012,044	2/1/2016	20160269851	9/15/2016	9,745,051	8/22/2017	THIN FORM FACTOR COMPUTATIONAL ARRAY CAMERAS AND MODULAR ARRAY CAMERAS
6-0020-US-05	US	In Force	15/136,166	4/22/2016	20170085345	3/23/2017	9,774,831	9/26/2017	THIN FORM FACTOR COMPUTATIONAL ARRAY CAMERAS AND MODULAR ARRAY CAMERAS
6-0021-US-01	US	In Force	13/792,143	3/10/2013	20140253738	9/13/2014	8,866,912	10/21/2014	SYSTEM AND METHODS FOR CALIBRATION OF AN ARRAY CAMERA USING A SINGLE CAPTURED IMAGE
6-0021-US-02	US	In Force	14/519,005	10/20/2014	20150035992	2/5/2015	9,124,864	9/7/2015	SYSTEM AND METHODS FOR CALIBRATION OF AN ARRAY CAMERA
6-0021-US-03	US	In Force	14/841,651	9/31/2016	20160165212	6/9/2016	9,986,224	5/29/2018	SYSTEM AND METHODS FOR CALIBRATION OF AN ARRAY CAMERA
6-0021-US-04	US	In Force	15/987,788	5/23/2018	20180270473	9/20/2018	10,225,543	3/5/2019	SYSTEM AND METHODS FOR CALIBRATION OF AN ARRAY CAMERA
6-0021-US-05	US	In Force	15/290,672	3/1/2019	20190268586	8/29/2019	10,560,684	2/11/2020	SYSTEM AND METHODS FOR CALIBRATION OF AN ARRAY CAMERA
6-0021-US-06	US	In Force	16/785,914	2/10/2020	20200252597	8/6/2020	10,958,892	3/23/2021	SYSTEM AND METHODS FOR CALIBRATION OF AN ARRAY CAMERA
6-0021-US-07	US	In Force	17/208,618	3/22/2021	20210281816	9/9/2021	11,272,161	3/8/2022	SYSTEM AND METHODS FOR CALIBRATION OF AN ARRAY CAMERA
6-0021-US-08	US	Pending	17/533,267	3/2/2022	20220239890	7/28/2022			SYSTEM AND METHODS FOR CALIBRATION OF AN ARRAY CAMERA
6-0022-US-02	US	In Force	14/716,509	3/11/2014	20160037097	2/4/2016	9,888,194	2/6/2018	ARRAY CAMERA ARCHITECTURE IMPLEMENTING QUANTUM FLUX IMAGE SENSORS
6-0023-US-02	US	Lapsed	14/441,503	3/12/2014	20150312455	10/29/2015	9,497,370	11/15/2016	ARRAY CAMERA ARCHITECTURE IMPLEMENTING QUANTUM DOT COLOR FILTERS

PATENT

REEL: 066352 FRAME: 0737

Xperi Docket #	Country Code	Patent Status	Application #	Filing Date	Publication #	Publication Date	Patent #	Grant Date	Title
6-0006-0024-US-02	US	In Force	14,775,553	3/12/2014	20160044252	2/11/2016	9,578,259	2/23/2017	SYSTEMS AND METHODS FOR REDUCING MOTION BLUR IN IMAGES OR VIDEO IN ULTRA LOW LIGHT WITH ARRAY CAMERAS
6-0006-0024-US-03	US	Lapsed	15,438,542	2/24/2017	20170163862	6/9/2017	10,091,405	10/2/2018	SYSTEMS AND METHODS FOR REDUCING MOTION BLUR IN IMAGES OR VIDEO IN ULTRA LOW LIGHT WITH ARRAY CAMERAS
6-0006-0024-US-04	US	In Force	16,148,317	10/1/2018	20190037116	1/31/2019	10,547,772	1/28/2020	SYSTEMS AND METHODS FOR REDUCING MOTION BLUR IN IMAGES OR VIDEO IN ULTRA LOW LIGHT WITH ARRAY CAMERAS
6-0006-0025-US-03	US	In Force	14,773,748	3/7/2014	20160044257	2/11/2016	9,917,998	3/13/2018	SYSTEMS AND METHODS FOR MEASURING SCENE INFORMATION WHILE CAPTURING IMAGES USING ARRAY CAMERAS
6-0006-0026-US-03	US	In Force	14,773,742	3/7/2014	20160057332	2/25/2016	9,774,789	3/26/2017	SYSTEMS AND METHODS FOR HIGH DYNAMIC RANGE IMAGING USING ARRAY CAMERAS
6-0006-0026-US-04	US	Lapsed	15,773,482	9/22/2017	20180013945	1/11/2018			SYSTEMS AND METHODS FOR HIGH DYNAMIC RANGE IMAGING USING ARRAY CAMERAS
6-0006-0027-US-02	US	In Force	14,715,734	11/31/2013	20140267762	9/18/2014	9,497,429	11/15/2016	EXTENDED COLOR PROCESSING ON PELICAN ARRAY CAMERAS
6-0006-0027-US-03	US	In Force	15,787,636	10/6/2016	20170099465	4/6/2017	10,182,216	1/15/2019	EXTENDED COLOR PROCESSING ON PELICAN ARRAY CAMERAS
6-0006-0027-US-04	US	In Force	16,246,100	7/17/2019	20190215496	7/17/2019	10,638,099	4/28/2020	EXTENDED COLOR PROCESSING ON PELICAN ARRAY CAMERAS
6-0006-0028-EP-01	EP	Pending	14,763,087.5	3/17/2014	2973476	1/20/2016			SYSTEMS AND METHODS FOR STEREO IMAGING WITH CAMERA ARRAYS
6-0006-0028-JP-01	JP	Lapsed	2016-509445	3/17/2014	2016-524125	8/12/2016			SYSTEMS AND METHODS FOR STEREO IMAGING WITH CAMERA ARRAYS
6-0006-0028-US-02	US	In Force	14,723,968	3/17/2014	20140267633	9/18/2014	9,438,888	9/6/2016	SYSTEMS AND METHODS FOR STEREO IMAGING WITH CAMERA ARRAYS
6-0006-0028-US-03	US	In Force	14,705,885	5/6/2015	20150245013	8/27/2015	9,800,859	10/24/2017	SYSTEMS AND METHODS FOR ESTIMATING DEPTH USING STEREO ARRAY CAMERAS
6-0006-0028-US-04	US	In Force	14,705,903	5/6/2015	20150237329	8/20/2015	9,602,805	3/23/2017	SYSTEMS AND METHODS FOR ESTIMATING DEPTH USING AD HOC STEREO ARRAY CAMERAS
6-0006-0028-US-05	US	In Force	15,791,242	10/23/2017	20180048879	2/15/2018	10,455,218	10/22/2019	SYSTEMS AND METHODS FOR SYNTHESIZING IMAGES FROM IMAGE DATA CAPTURED BY AN ARRAY CAMERA USING RESTRICTED DEPTH OF FIELD DEPTH MAPS IN WHICH DEPTH ESTIMATION PRECISION VARIES
6-0006-0029-US-02	US	In Force	14,207,254	3/12/2014	20140267243	9/18/2014	9,519,972	12/13/2016	SYSTEMS AND METHODS FOR SYNTHESIZING IMAGES FROM IMAGE DATA CAPTURED BY AN ARRAY CAMERA USING RESTRICTED DEPTH OF FIELD DEPTH MAPS IN WHICH DEPTH ESTIMATION PRECISION VARIES
6-0006-0029-US-03	US	In Force	15,376,529	12/12/2016	20170094243	3/30/2017	9,800,856	10/24/2017	CAMERA USING RESTRICTED DEPTH OF FIELD DEPTH MAPS IN WHICH DEPTH ESTIMATION PRECISION VARIES
6-0006-0030-US-02	US	In Force	14,703,308	3/10/2014	20140285675	9/25/2014	9,124,831	9/7/2015	SYSTEM AND METHODS FOR CALIBRATION OF AN ARRAY CAMERA
6-0006-0030-US-03	US	In Force	14,841,694	9/31/2015	20160163051	6/9/2016	9,741,118	3/22/2017	SYSTEM AND METHODS FOR CALIBRATION OF AN ARRAY CAMERA
6-0006-0030-US-04	US	In Force	15,682,064	8/21/2017	20180040135	2/8/2018	10,127,582	11/13/2018	SYSTEM AND METHODS FOR CALIBRATION OF AN ARRAY CAMERA
6-0006-0031-US-02	US	In Force	14,723,697	3/14/2014	20140267829	9/18/2014	9,100,586	8/4/2015	SYSTEMS AND METHODS FOR PHOTOMETRIC NORMALIZATION IN ARRAY CAMERAS
6-0006-0031-US-03	US	In Force	14,814,291	7/30/2015	20160198096	7/17/2016	9,787,911	10/10/2017	SYSTEMS AND METHODS FOR PHOTOMETRIC NORMALIZATION IN ARRAY CAMERAS
6-0006-0031-US-04	US	In Force	15,727,932	10/9/2017	20180035057	2/1/2018	10,412,314	9/10/2019	SYSTEMS AND METHODS FOR PHOTOMETRIC NORMALIZATION IN ARRAY CAMERAS
6-0006-0032-US-01	US	In Force	13,802,507	9/13/2013	20140267890	9/18/2014	9,106,784	8/13/2015	SYSTEMS AND METHODS FOR CONTROLLING ALIASING IN IMAGES CAPTURED BY AN ARRAY CAMERA FOR USE IN SUPER-RESOLUTION PROCESSING
6-0006-0032-US-02	US	In Force	14,634,297	7/30/2015	20160195733	7/7/2016	9,733,486	8/15/2017	SYSTEMS AND METHODS FOR CONTROLLING ALIASING IN IMAGES CAPTURED BY AN ARRAY CAMERA FOR USE IN SUPER-RESOLUTION PROCESSING
6-0033-DE-01	DE	In Force	14,855,663.5	11/26/2014	3075140	10/5/2016	3075140	6/13/2018	ARRAY CAMERA CONFIGURATIONS INCORPORATING MULTIPLE CONSTITUENT ARRAY CAMERAS
6-0033-EP-01	EP	Lapsed	14,855,663.5	11/26/2014	3075140	10/5/2016	3075140	6/13/2018	ARRAY CAMERA CONFIGURATIONS INCORPORATING MULTIPLE CONSTITUENT ARRAY CAMERAS
6-0033-FR-01	FR	Lapsed	14,855,663.5	11/26/2014	3075140	10/5/2016	3075140	6/13/2018	ARRAY CAMERA CONFIGURATIONS INCORPORATING MULTIPLE CONSTITUENT ARRAY CAMERAS
6-0033-GB-01	GB	Lapsed	14,855,663.5	11/26/2014	3075140	10/5/2016	3075140	6/13/2018	ARRAY CAMERA CONFIGURATIONS INCORPORATING MULTIPLE CONSTITUENT ARRAY CAMERAS
6-0033-IL-01	IL	In Force	14,855,663.5	11/26/2014	3075140	10/5/2016	3075140	6/13/2018	ARRAY CAMERA CONFIGURATIONS INCORPORATING MULTIPLE CONSTITUENT ARRAY CAMERAS
6-0033-US-02	US	In Force	14,555,279	11/26/2014	20150146029	5/28/2015	9,426,361	8/23/2016	ARRAY CAMERA CONFIGURATIONS INCORPORATING MULTIPLE CONSTITUENT ARRAY CAMERAS
6-0033-US-03	US	In Force	14,555,368	11/26/2014	20150146030	5/28/2015	9,456,134	9/27/2016	ARRAY CAMERA CONFIGURATIONS INCORPORATING MULTIPLE CONSTITUENT ARRAY CAMERAS
6-0033-US-04	US	In Force	15,274,830	9/23/2016	20170078568	3/16/2017	9,813,617	11/7/2017	ARRAY CAMERA CONFIGURATIONS INCORPORATING MULTIPLE CONSTITUENT ARRAY CAMERAS
6-0033-US-05	US	Lapsed	15,804,959	11/6/2017	20180139382	5/17/2018			ARRAY CAMERA CONFIGURATIONS INCORPORATING MULTIPLE CONSTITUENT ARRAY CAMERAS
6-0033-US-06	US	In Force	16,184,840	11/8/2018	20190098209	3/28/2019	10,708,492	7/7/2020	ARRAY CAMERA CONFIGURATIONS INCORPORATING MULTIPLE CONSTITUENT ARRAY CAMERAS
6-0033-WO-01	WO	Lapsed	PC1/US2014/067740	11/26/2014	2015/081279	6/4/2015			ARRAY CAMERA CONFIGURATIONS INCORPORATING MULTIPLE CONSTITUENT ARRAY CAMERAS
6-0034-US-03	US	In Force	14,500,979	9/29/2014	20150091900	4/2/2015	9,898,856	2/20/2018	SYSTEMS AND METHODS FOR DEPTH-ASSISTED PERSPECTIVE DISTORTION CORRECTION
6-0034-US-04	US	In Force	15,898,666	2/19/2018	20180240765	8/23/2018	10,540,806	3/21/2020	SYSTEMS AND METHODS FOR DEPTH-ASSISTED PERSPECTIVE DISTORTION CORRECTION
6-0034-WO-01	WO	Lapsed	PC1/US2014/058142	9/29/2014	2015/048694	4/2/2015			SYSTEMS AND METHODS FOR DEPTH-ASSISTED PERSPECTIVE DISTORTION CORRECTION
6-0035-EP-01	EP	Lapsed	14,860,103.2	11/7/2014	3066690	9/14/2016			METHODS OF MANUFACTURING ARRAY CAMERA MODULES INCORPORATING INDEPENDENTLY ALIGNED LENS STACKS
6-0035-US-03	US	In Force	14,536,537	11/7/2014	20150122411	5/7/2015	9,185,276	11/10/2015	METHODS OF MANUFACTURING ARRAY CAMERA MODULES INCORPORATING INDEPENDENTLY ALIGNED LENS STACKS
6-0035-US-04	US	In Force	14,536,552	11/7/2014	20150124151	5/7/2015	9,264,592	2/16/2016	ARRAY CAMERA MODULES INCORPORATING INDEPENDENTLY ALIGNED LENS STACKS

PATENT

REEL: 066352 FRAME: 0738

Xperi Docket #	Country Code	Patent Status	Application #	Filing Date	Publication #	Publication Date	Patent #	Grant Date	Title
0006-0035-US-05	US	In Force	14/536,554	11/17/2014	20150124113	5/17/2015	9,426,343	8/23/2016	ARRAY CAMERAS INCORPORATING INDEPENDENTLY ALIGNED LENS STACKS
0006-0035-US-06	US	In Force	15/242,405	8/19/2016	20170070672	3/9/2017	9,924,092	3/20/2018	ARRAY CAMERAS INCORPORATING INDEPENDENTLY ALIGNED LENS STACKS METHODS OF MANUFACTURING ARRAY CAMERA MODULES INCORPORATING INDEPENDENTLY ALIGNED LENS STACKS
0006-0035-WO-01	WO	Lapsed	PCT/US2014/064693	11/17/2014	2015/070105	5/14/2015			
0006-0036-US-02	US	In Force	14/547,048	11/18/2014	20150138346	5/21/2015	10,119,808	11/16/2018	SYSTEMS AND METHODS FOR ESTIMATING DEPTH FROM PROJECTED TEXTURE USING CAMERA ARRAYS
0006-0036-US-03	US	In Force	16/177,191	10/31/2018	20190063905	7/28/2019	10,767,981	9/8/2020	SYSTEMS AND METHODS FOR ESTIMATING DEPTH FROM PROJECTED TEXTURE USING CAMERA ARRAYS
0006-0036-US-04	US	Pending	17/033,783	9/7/2020	20210063141	3/4/2021			SYSTEMS AND METHODS FOR ESTIMATING DEPTH FROM PROJECTED TEXTURE USING CAMERA ARRAYS
0006-0036-WO-01	WO	Lapsed	PCT/US2014/066229	11/18/2014	2015/074078	5/21/2015			SYSTEMS AND METHODS FOR ESTIMATING DEPTH FROM PROJECTED TEXTURE USING CAMERA ARRAYS
0006-0037-US-02	US	In Force	14/484,154	9/11/2014	20150288861	10/8/2015	9,247,117	1/26/2016	MODULE BY INTRODUCING WARPAGE INTO A FOCAL PLANE OF A LENS STACK ARRAY
0006-0038-US-02	US	In Force	14/642,637	3/9/2015	20150254868	9/10/2015	10,089,740	10/2/2018	SYSTEM AND METHODS FOR DEPTH REGULARIZATION AND SEMIAUTOMATIC INTERACTIVE MATTING USING RGB-D IMAGES
0006-0038-US-03	US	In Force	16/148,816	10/17/2018	20190037150	1/31/2019	10,574,905	2/25/2020	SYSTEM AND METHODS FOR DEPTH REGULARIZATION AND SEMIAUTOMATIC INTERACTIVE MATTING USING RGB-D IMAGES
0006-0038-US-04	US	Lapsed	16/798,203	2/21/2020					SYSTEM AND METHODS FOR DEPTH REGULARIZATION AND SEMIAUTOMATIC INTERACTIVE MATTING USING RGB-D IMAGES
0006-0038-WO-01	WO	Lapsed	PCT/US2015/019529	3/9/2015	2015/134996	9/11/2015			
0006-0039-US-01	US	In Force	14/593,369	1/9/2015	20150161798	6/11/2015	9,633,442	4/25/2017	ARRAY CAMERAS INCLUDING AN ARRAY CAMERA MODULE AUGMENTED WITH A SEPARATE CAMERA
0006-0039-US-02	US	In Force	14/724,447	5/28/2015	20150264337	9/17/2015	10,122,993	11/16/2018	AUTOFOCUS SYSTEM FOR A CONVENTIONAL CAMERA THAT USES DEPTH INFORMATION FROM AN ARRAY CAMERA
0006-0039-US-03	US	In Force	16/179,796	11/21/2018	20190089347	3/21/2019	10,674,138	6/21/2020	ARRAY CAMERA
0006-0039-WO-01	WO	Lapsed	PCT/US2015/032467	5/26/2015	2015/183824	12/9/2015			AUTOFOCUS SYSTEM FOR A CONVENTIONAL CAMERA THAT USES DEPTH INFORMATION FROM AN ARRAY CAMERA
0006-0040-US-02	US	In Force	14/561,925	12/5/2014	20150373261	12/24/2015	9,521,319	12/13/2016	ARRAY CAMERAS AND ARRAY CAMERA MODULES INCLUDING SPECTRAL FILTERS DISPOSED OUTSIDE OF A CONSTITUENT IMAGE SENSOR
0006-0041-CN-01	CN	In Force	201580080973.3	4/17/2015	107924572	4/17/2018	ZL201580080973.3	6/15/2021	SYSTEMS AND METHODS FOR PERFORMING HIGH SPEED VIDEO CAPTURE AND DEPTH ESTIMATION USING ARRAY CAMERAS
0006-0041-DE-01	DE	In Force	15889406.3	4/17/2015	3284061	2/21/2018	3284061	11/10/2021	SYSTEMS AND METHODS FOR PERFORMING HIGH SPEED VIDEO CAPTURE AND DEPTH ESTIMATION USING ARRAY CAMERAS
0006-0041-EP-01	EP	Lapsed	15889406.3	4/17/2015	3284061	2/21/2018	3284061	11/10/2021	SYSTEMS AND METHODS FOR PERFORMING HIGH SPEED VIDEO CAPTURE AND DEPTH ESTIMATION USING ARRAY CAMERAS
0006-0041-FR-01	FR	In Force	15889406.3	4/17/2015	3284061	2/21/2018	3284061	11/10/2021	SYSTEMS AND METHODS FOR PERFORMING HIGH SPEED VIDEO CAPTURE AND DEPTH ESTIMATION USING ARRAY CAMERAS
0006-0041-GB-01	GB	In Force	15889406.3	4/17/2015	3284061	2/21/2018	3284061	11/10/2021	SYSTEMS AND METHODS FOR PERFORMING HIGH SPEED VIDEO CAPTURE AND DEPTH ESTIMATION USING ARRAY CAMERAS
0006-0041-KR-01	KR	Lapsed	10-2017-7033346	4/17/2015					SYSTEMS AND METHODS FOR PERFORMING HIGH SPEED VIDEO CAPTURE AND DEPTH ESTIMATION USING ARRAY CAMERAS
0006-0041-NL-01	NL	In Force	15889406.3	4/17/2015	3284061	2/21/2018	3284061	11/10/2021	SYSTEMS AND METHODS FOR PERFORMING HIGH SPEED VIDEO CAPTURE AND DEPTH ESTIMATION USING ARRAY CAMERAS
0006-0041-US-01	US	In Force	14/690,346	4/17/2015	20160309084	10/20/2016	9,942,474	4/10/2018	SYSTEMS AND METHODS FOR PERFORMING HIGH SPEED VIDEO CAPTURE AND DEPTH ESTIMATION USING ARRAY CAMERAS
0006-0041-WO-01	WO	Lapsed	PCT/US2015/026545	4/17/2015	2015/167814	10/21/2016			SYSTEMS AND METHODS FOR PERFORMING HIGH SPEED VIDEO CAPTURE AND DEPTH ESTIMATION USING ARRAY CAMERAS
0006-0042-CN-01	CN	In Force	201680028821.3	4/19/2016	108307675	7/70/2018	108307675	12/25/2020	MULTI-BASELINE CAMERA ARRAY SYSTEM ARCHITECTURES FOR DEPTH AUGMENTATION IN VR/AR APPLICATIONS
0006-0042-DE-01	DE	In Force	16783702.0	4/19/2016	3286914	2/28/2018	602016026954.6 (3286914)	12/25/2019	MULTI-BASELINE CAMERA ARRAY SYSTEM ARCHITECTURES FOR DEPTH AUGMENTATION IN VR/AR APPLICATIONS
0006-0042-EP-01	EP	Lapsed	16783702.0	4/19/2016	3286914	2/28/2018	3286914	12/25/2019	MULTI-BASELINE CAMERA ARRAY SYSTEM ARCHITECTURES FOR DEPTH AUGMENTATION IN VR/AR APPLICATIONS
0006-0042-GB-01	GB	In Force	16783702.0	4/19/2016	3286914	2/28/2018	3286914	12/25/2019	MULTI-BASELINE CAMERA ARRAY SYSTEM ARCHITECTURES FOR DEPTH AUGMENTATION IN VR/AR APPLICATIONS
0006-0042-KR-01	KR	Pending	10-2017-7033448	4/19/2016					MULTI-BASELINE CAMERA ARRAY SYSTEM ARCHITECTURES FOR DEPTH AUGMENTATION IN VR/AR APPLICATIONS
0006-0042-NL-01	NL	In Force	16783702.0	4/19/2016	3286914	2/28/2018	3286914	12/25/2019	MULTI-BASELINE CAMERA ARRAY SYSTEM ARCHITECTURES FOR DEPTH AUGMENTATION IN VR/AR APPLICATIONS

PATENT

REEL: 066352 FRAME: 0739

Xperi Docket #	Country Code	Patent Status	Application #	Filing Date	Publication #	Publication Date	Patent #	Grant Date	Title
6-0006-0042-US-02	US	In Force	15/133,185	4/19/2016	20160309134	10/20/2016	10,805,589	10/13/2020	MULTI-BASELINE CAMERA ARRAY SYSTEM ARCHITECTURES FOR DEPTH AUGMENTATION IN VR/AR APPLICATIONS
6-0006-0042-US-03	US	In Force	17/068,243	10/12/2020	20210044790	2/11/2021	11,368,662	6/21/2022	MULTI-BASELINE CAMERA ARRAY SYSTEM ARCHITECTURES FOR DEPTH AUGMENTATION IN VR/AR APPLICATIONS
6-0006-0042-US-04	US	Pending	17/807,508	6/17/2022					MULTI-BASELINE CAMERA ARRAY SYSTEM ARCHITECTURES FOR DEPTH AUGMENTATION IN VR/AR APPLICATIONS
6-0006-0042-WO-01	WO	Lapsed	PCT/US2016/028317	4/19/2016	20161172125	10/27/2016			ARCHITECTURES FOR IMAGER ARRAYS AND ARRAY CAMERAS
6-0006-0043-CN-01	CN	Lapsed	201180031287.9	5/12/2011	103004180				ARCHITECTURES FOR IMAGER ARRAYS AND ARRAY CAMERAS
6-0006-0043-DE-01	DE	In Force	11781313.9	5/12/2011	2569935	3/20/2013	2569935	12/28/2016	ARCHITECTURES FOR IMAGER ARRAYS AND ARRAY CAMERAS
6-0006-0043-EP-01	EP	Lapsed	11781313.9	5/12/2011	2569935	3/20/2013	2569935	12/28/2016	ARCHITECTURES FOR IMAGER ARRAYS AND ARRAY CAMERAS
6-0006-0043-FR-01	FR	In Force	11781313.9	5/12/2011	2569935	3/20/2013	2569935	12/28/2016	ARCHITECTURES FOR IMAGER ARRAYS AND ARRAY CAMERAS
6-0006-0043-GB-01	GB	In Force	11781313.9	5/12/2011	2569935	3/20/2013	2569935	12/28/2016	ARCHITECTURES FOR IMAGER ARRAYS AND ARRAY CAMERAS
6-0006-0043-JP-01	JP	In Force	2013510321	11/9/2012	2013-526801	6/24/2013	5848754	12/4/2015	ARCHITECTURES FOR IMAGER ARRAYS AND ARRAY CAMERAS
6-0006-0043-KR-01	KR	In Force	10-2012-7032552	5/12/2011	10-2013-0136572	12/12/2013	10-1824672	1/26/2018	ARCHITECTURES FOR IMAGER ARRAYS AND ARRAY CAMERAS
6-0006-0043-SG-02	SG	Lapsed	10201503536V	5/12/2011					ARCHITECTURES FOR IMAGER ARRAYS AND ARRAY CAMERAS
6-0006-0043-US-02	US	Lapsed	15/159,076	5/19/2016	20170048468	2/16/2017			IMAGER ARRAYS INCLUDING AN M X N ARRAY OF FOCAL PLANES IN WHICH DIFFERENT TYPES OF FOCAL PLANES ARE DISTRIBUTED AROUND A REFERENCE FOCAL PLANE
6-0006-0044-CN-01	CN	Lapsed	201280057587.9	10/11/2012	104185808				LENS STACK ARRAYS INCLUDING ADAPTIVE OPTICAL ELEMENTS
6-0006-0044-EP-01	EP	Lapsed	12889821.1	10/11/2012	2766767	8/20/2014			LENS STACK ARRAYS INCLUDING ADAPTIVE OPTICAL ELEMENTS
6-0006-0044-KR-01	KR	Lapsed	10-2014-7032405	10/31/2012					LENS STACK ARRAYS INCLUDING ADAPTIVE OPTICAL ELEMENTS
6-0006-0044-SG-01	SG	Lapsed	11201401383U	10/11/2012					LENS STACK ARRAYS INCLUDING ADAPTIVE OPTICAL ELEMENTS
6-0006-0044-US-03	US	Lapsed	14/868,942	9/29/2015	20160165106	6/9/2016			LENS STACK ARRAYS INCLUDING ADAPTIVE OPTICAL ELEMENTS
6-0006-0045-US-03	US	In Force	15/048,369	2/19/2016	20160316140	10/27/2016	9,794,476	10/17/2017	SYSTEMS AND METHODS FOR CONTROLLING ALIASING IN IMAGES CAPTURED BY AN ARRAY CAMERA FOR USE IN SUPER RESOLUTION PROCESSING USING PIXEL APERTURES
6-0006-0045-US-04	US	In Force	15/785,315	10/16/2017	20180979993	4/5/2018	10,375,302	9/6/2019	SYSTEMS AND METHODS FOR CONTROLLING ALIASING IN IMAGES CAPTURED BY AN ARRAY CAMERA FOR USE IN SUPER RESOLUTION PROCESSING USING PIXEL APERTURES
6-0006-0046-CN-01	CN	In Force	201280055766.9	9/28/2012	104081414	10/3/2014	41201280055766.9	8/1/2017	SYSTEMS AND METHODS FOR ENCODING AND DECODING LIGHT FIELD IMAGE FILES
6-0006-0046-CN-02	CN	In Force	201710541440.1	9/28/2012	107230236	10/3/2017	ZL201710541440.1	12/8/2020	SYSTEMS AND METHODS FOR ENCODING AND DECODING LIGHT FIELD IMAGE FILES
6-0006-0046-DE-01	DE	In Force	12835041.0	9/28/2012	2761534	8/6/2014	602012073316.0 (EP2761534)	11/18/2020	SYSTEMS AND METHODS FOR ENCODING AND DECODING LIGHT FIELD IMAGE FILES
6-0006-0046-EP-01	EP	Lapsed	12835041.0	9/28/2012	2761534	8/6/2014	2761534	11/18/2020	SYSTEMS AND METHODS FOR ENCODING AND DECODING LIGHT FIELD IMAGE FILES
6-0006-0046-FR-01	FR	In Force	12835041.0	9/28/2012	2761534	8/6/2014	2761534	11/18/2020	SYSTEMS AND METHODS FOR ENCODING AND DECODING LIGHT FIELD IMAGE FILES
6-0006-0046-GB-01	GB	In Force	12835041.0	9/28/2012	2761534	8/6/2014	2761534	11/18/2020	SYSTEMS AND METHODS FOR ENCODING AND DECODING LIGHT FIELD IMAGE FILES
6-0006-0046-IR-01	IR	In Force	270873489P/2014	9/28/2012			361194	3/15/2021	SYSTEMS AND METHODS FOR ENCODING AND DECODING LIGHT FIELD IMAGE FILES
6-0006-0046-JP-01	JP	In Force	2014-533435	9/28/2012	2014-535191	12/25/2014	6140709	5/12/2017	SYSTEMS AND METHODS FOR ENCODING AND DECODING LIGHT FIELD IMAGE FILES
6-0006-0046-JP-02	JP	In Force	2017-91357	9/28/2012	2017-155587	9/14/2017	6650891	12/29/2019	SYSTEMS AND METHODS FOR ENCODING AND DECODING LIGHT FIELD IMAGE FILES
6-0046-KR-03	JP	In Force	2019-188790	9/28/2012	2020-17999	1/30/2020	6767558	9/23/2020	SYSTEMS AND METHODS FOR ENCODING AND DECODING LIGHT FIELD IMAGE FILES
6-0046-NL-01	NL	In Force	10-2014-7011449	9/28/2012	10-2014-0067156	6/3/2014	10-2002165	7/15/2019	SYSTEMS AND METHODS FOR ENCODING AND DECODING LIGHT FIELD IMAGE FILES
6-0046-US-02	US	In Force	12835041.0	9/28/2012	2761534	8/6/2014	2761534	11/18/2020	SYSTEMS AND METHODS FOR ENCODING AND DECODING LIGHT FIELD IMAGE FILES
6-0046-US-03	US	In Force	13/631,731	9/28/2012	20130077880	3/28/2013	9,129,183	9/8/2015	SYSTEMS AND METHODS FOR ENCODING LIGHT FIELD IMAGE FILES
6-0046-US-04	US	In Force	13/631,736	9/28/2012	20130077882	3/28/2013	8,542,933	9/24/2013	SYSTEMS AND METHODS FOR ENCODING LIGHT FIELD IMAGE FILES
6-0046-US-05	US	In Force	13/955,411	7/31/2013	20130315494	11/28/2013	8,831,367	9/9/2014	SYSTEMS AND METHODS FOR ENCODING LIGHT FIELD IMAGE FILES
6-0046-US-06	US	In Force	14/477,374	9/4/2014	20140369615	12/18/2014	9,036,931	5/19/2015	SYSTEMS AND METHODS FOR ENCODING STRUCTURED LIGHT FIELD IMAGE FILES
6-0046-US-05	US	In Force	14/477,396	9/4/2014	20140369612	12/18/2014	9,036,928	5/19/2015	SYSTEMS AND METHODS FOR ENCODING STRUCTURED LIGHT FIELD IMAGE FILES
6-0046-US-07	US	In Force	14/481,241	9/9/2014	20140376825	12/25/2014	9,031,335	5/12/2015	MAPS
6-0046-US-08	US	In Force	14/481,270	9/9/2014	20150003753	1/17/2015	9,031,342	5/12/2015	SYSTEMS AND METHODS FOR ENCODING REFOCUSABLE LIGHT FIELD IMAGE FILES
6-0046-US-09	US	In Force	14/481,291	9/9/2014	20140376826	12/25/2014	9,025,894	5/5/2015	MAPS
6-0046-US-10	US	In Force	14/481,333	9/9/2014	20150003752	1/17/2015	9,025,895	5/5/2015	SYSTEMS AND METHODS FOR ENCODING REFOCUSABLE LIGHT FIELD IMAGE FILES
6-0046-US-11	US	In Force	14/504,684	10/7/2014	20150055884	2/26/2015	9,031,343	5/12/2015	SYSTEMS AND METHODS FOR ENCODING LIGHT FIELD IMAGE FILES HAVING A DEPTH MAP
6-0046-US-12	US	In Force	14/504,687	10/7/2014	20150055869	1/15/2015	9,042,667	5/26/2015	SYSTEMS AND METHODS FOR ENCODING LIGHT FIELD IMAGE FILES USING A DEPTH MAP
6-0046-US-13	US	In Force	14/667,492	3/24/2015	20150199841	7/16/2015	9,536,166	1/3/2017	METADATA
6-0046-US-14	US	In Force	14/667,495	3/24/2015	20150199793	7/16/2015	9,811,753	11/7/2017	SYSTEMS AND METHODS FOR ENCODING IMAGE FILES CONTAINING DEPTH MAPS STORED AS METADATA
6-0046-US-15	US	In Force	14/667,503	3/24/2015	20150199794	7/16/2015	9,864,921	1/9/2018	SYSTEMS AND METHODS FOR ENCODING LIGHT FIELD IMAGE FILES

PATENT

REEL: 066352 FRAME: 0740

Xperi Docket #	Country Code	Patent Status	Application #	Filing Date	Publication #	Publication Date	Patent #	Grant Date	Title
0006-0046-US-16	US	In Force	15/395,024	12/30/2016	20170178363	6/22/2017	10,019,816	7/10/2018	SYSTEMS AND METHODS FOR DECODING IMAGE FILES CONTAINING DEPTH MAPS STORED AS METADATA
0006-0046-US-17	US	In Force	15/865,208	1/8/2018	20180197035	7/12/2018	10,275,676	4/30/2019	SYSTEMS AND METHODS FOR ENCODING IMAGE FILES CONTAINING DEPTH MAPS STORED AS METADATA
0006-0046-US-18	US	In Force	16/030,597	7/9/2018	20180330182	11/15/2018	10,430,682	10/1/2019	SYSTEMS AND METHODS FOR DECODING IMAGE FILES CONTAINING DEPTH MAPS STORED AS METADATA
0006-0046-US-19	US	In Force	16/586,827	9/27/2019	20200026948	1/23/2020	10,984,276	4/20/2021	Systems and Methods for encoding Image Files Containing Depth Maps Stored as Metadata
0006-0046-US-20	US	Pending	17/233,553	4/19/2021	20210312207	10/7/2021			SYSTEMS AND METHODS FOR ENCODING IMAGE FILES CONTAINING DEPTH MAPS STORED AS METADATA
0006-0047-EP-01	EP	Pending	13841631.6	9/30/2013	2901671	9/5/2015			GENERATING IMAGES FROM LIGHT FIELDS UTILIZING VIRTUAL VIEWPOINTS
0006-0047-US-03	US	In Force	14/876,024	10/6/2015	20160255333	9/17/2016	10,390,005	8/20/2019	GENERATING IMAGES FROM LIGHT FIELDS UTILIZING VIRTUAL VIEWPOINTS
0006-0048-CN-01	CN	In Force	201380049828.X	8/23/2013	104685513	8/3/2015	ZL201380049828.X	4/27/2018	FEATURE BASED HIGH RESOLUTION MOTION ESTIMATION FROM LOW RESOLUTION IMAGES CAPTURED USING AN ARRAY SOURCE
0006-0048-EP-01	EP	Lapsed	13831768.0	8/23/2013	2888698	7/1/2015			FEATURE BASED HIGH RESOLUTION MOTION ESTIMATION FROM LOW RESOLUTION IMAGES CAPTURED USING AN ARRAY SOURCE
0006-0048-IN-01	IN	Lapsed	14880EIMP2015	8/23/2013					USING AN ARRAY SOURCE
0006-0048-US-03	US	In Force	14/933,871	11/5/2015	20160165134	6/9/2016	9,813,616	11/7/2017	FEATURE BASED HIGH RESOLUTION MOTION ESTIMATION FROM LOW RESOLUTION IMAGES CAPTURED USING AN ARRAY SOURCE
0006-0048-US-04	US	In Force	15/804,149	11/6/2017	20180124311	5/3/2018	10,462,362	10/29/2019	FEATURE BASED HIGH RESOLUTION MOTION ESTIMATION FROM LOW RESOLUTION IMAGES CAPTURED USING AN ARRAY SOURCE
0006-0048-US-05	US	Lapsed	16/664,563	10/25/2019					USING AN ARRAY SOURCE
0006-0049-CN-01	CN	Lapsed	201380041095.5	6/14/2013	104520754				SYSTEMS AND METHODS FOR MANUFACTURING CAMERA MODULES USING ACTIVE ALIGNMENT OF LENS STACK ARRAYS AND SENSORS
0006-0049-EP-01	EP	Lapsed	13810429.4	6/14/2013	2867718	5/6/2015			SYSTEMS AND METHODS FOR MANUFACTURING CAMERA MODULES USING ACTIVE ALIGNMENT OF LENS STACK ARRAYS AND SENSORS
0006-0049-JP-01	JP	Lapsed	2015520272	6/14/2013	2015-522173	8/3/2015			SYSTEMS AND METHODS FOR MANUFACTURING CAMERA MODULES USING ACTIVE ALIGNMENT OF LENS STACK ARRAYS AND SENSORS
0006-0049-KR-01	KR	Lapsed	10-2015-7002415	6/14/2013					SYSTEMS AND METHODS FOR MANUFACTURING CAMERA MODULES USING ACTIVE ALIGNMENT OF LENS STACK ARRAYS AND SENSORS
0006-0049-US-01	US	In Force	15/304,759	1/22/2016	20160266284	9/15/2015	9,766,380	9/19/2017	STACK ARRAYS AND SENSORS
0006-0049-US-02	US	In Force	15/707,747	9/18/2017	20180081090	3/22/2018	10,261,219	4/16/2019	STACK ARRAYS AND SENSORS
6-0049-US-03	US	In Force	16/382,099	4/11/2019	20190235138	8/1/2019	11,022,275	6/1/2021	SYSTEMS AND METHODS FOR MANUFACTURING CAMERA MODULES USING ACTIVE ALIGNMENT OF LENS STACK ARRAYS AND SENSORS
6-0050-US-01	US	Lapsed	62/219,528	9/16/2015					OPTICAL SYSTEMS FOR CAMERAS INCORPORATING LENS ELEMENTS FORMED SEPARATELY AND SUBSEQUENTLY BONDED TO LOW CTE SUBSTRATES
6-0050-US-02	US	Lapsed	62/394,644	9/14/2016					OPTICAL SYSTEMS FOR CAMERAS INCORPORATING LENS ELEMENTS FORMED SEPARATELY AND SUBSEQUENTLY BONDED TO LOW CTE SUBSTRATES
6-0050-US-03	US	In Force	16/333,202	9/14/2017	20190243086	8/8/2019	11,199,678	12/14/2021	OPTICAL SYSTEMS FOR CAMERAS INCORPORATING LENS ELEMENTS FORMED SEPARATELY AND SUBSEQUENTLY BONDED TO LOW CTE SUBSTRATES
6-0050-WO-01	WO	Lapsed	PCT/AUS2017/051637	9/14/2017	2018053181	3/22/2018			OPTICAL SYSTEMS FOR CAMERAS INCORPORATING LENS ELEMENTS FORMED SEPARATELY AND SUBSEQUENTLY BONDED TO LOW CTE SUBSTRATES
6-0051-CN-01	CN	In Force	201580056436.5	9/29/2015	107077743	8/30/2017	ZL201580056436.5	3/23/2021	SYSTEMS AND METHODS FOR DYNAMIC CALIBRATION OF ARRAY CAMERAS
6-0051-CN-02	CN	Pending	202110338576.9	9/29/2015	113256730	8/13/2021			SYSTEMS AND METHODS FOR DYNAMIC CALIBRATION OF ARRAY CAMERAS
6-0051-DE-01	DE	In Force	15847754.7	9/29/2015			602015022053.6-3201877	12/19/2018	SYSTEMS AND METHODS FOR DYNAMIC CALIBRATION OF ARRAY CAMERAS
6-0051-EP-01	EP	Lapsed	15847754.7	9/29/2015	3201877	8/9/2017	3201877	12/19/2018	SYSTEMS AND METHODS FOR DYNAMIC CALIBRATION OF ARRAY CAMERAS
6-0051-EP-02	EP	Lapsed	18205526.4	9/29/2015	3467776	4/10/2019			SYSTEMS AND METHODS FOR DYNAMIC CALIBRATION OF ARRAY CAMERAS
6-0051-FR-01	FR	In Force	15847754.7	9/29/2015			3201877	12/19/2018	SYSTEMS AND METHODS FOR DYNAMIC CALIBRATION OF ARRAY CAMERAS
6-0051-GB-01	GB	In Force	15847754.7	9/29/2015			3201877	12/19/2018	SYSTEMS AND METHODS FOR DYNAMIC CALIBRATION OF ARRAY CAMERAS
6-0051-JP-01	JP	Lapsed	2017-536232	9/29/2015	2017-531976	10/26/2017			SYSTEMS AND METHODS FOR DYNAMIC CALIBRATION OF ARRAY CAMERAS
6-0051-KR-01	KR	Lapsed	10-2017-7011284	9/29/2015	17-63827	6/8/2017			SYSTEMS AND METHODS FOR DYNAMIC CALIBRATION OF ARRAY CAMERAS
6-0051-NL-01	NL	In Force	15847754.7	9/29/2015			3201877	12/19/2018	SYSTEMS AND METHODS FOR DYNAMIC CALIBRATION OF ARRAY CAMERAS
6-0051-US-01	US	In Force	15/515,489	9/29/2015	20170244960	8/24/2017	10,250,871	4/2/2019	SYSTEMS AND METHODS FOR DYNAMIC CALIBRATION OF ARRAY CAMERAS
6-0051-US-02	US	In Force	16/371,347	4/1/2019	20190230348	7/25/2019	10,944,963	3/9/2021	SYSTEMS AND METHODS FOR DYNAMIC CALIBRATION OF ARRAY CAMERAS
6-0051-US-03	US	Pending	17/195,332	3/8/2021	20210281828	9/9/2021			SYSTEMS AND METHODS FOR DYNAMIC CALIBRATION OF ARRAY CAMERAS

PATENT

Xperi Docket #	Country Code	Patent Status	Application #	Filing Date	Publication #	Publication Date	Patent #	Grant Date	Title
0006-0051-WO-01	WO	Lapsed	PCI/US2015/053013	9/29/2015	2016/054039	4/7/2016			SYSTEMS AND METHODS FOR DYNAMIC CALIBRATION OF ARRAY CAMERAS
0006-0056-CN-01	CN	Pending	201820038509.8	8/17/2018	111066065	4/24/2020			SYSTEMS AND METHODS FOR HYBRID DEPTH REGULARIZATION
0006-0056-DE-01	DE	In Force	18756418.2	8/17/2018	3673461	7/1/2020	602018023309.2 (EP3673461)	9/8/2021	SYSTEMS AND METHODS FOR HYBRID DEPTH REGULARIZATION
0006-0056-EP-01	EP	Lapsed	18756418.2	8/17/2018	3673461	7/1/2020	3673461	9/8/2021	SYSTEMS AND METHODS FOR HYBRID DEPTH REGULARIZATION
0006-0056-ES-01	ES	In Force	18756418.2	8/17/2018	3673461	7/1/2020	3673461	9/8/2021	SYSTEMS AND METHODS FOR HYBRID DEPTH REGULARIZATION
0006-0056-FR-01	FR	In Force	18756418.2	8/17/2018	3673461	7/1/2020	3673461	9/8/2021	SYSTEMS AND METHODS FOR HYBRID DEPTH REGULARIZATION
0006-0056-GB-01	GB	In Force	18756418.2	8/17/2018	3673461	7/1/2020	3673461	9/8/2021	SYSTEMS AND METHODS FOR HYBRID DEPTH REGULARIZATION
0006-0056-IT-01	IT	In Force	18756418.2	8/17/2018	3673461	7/1/2020	3673461	9/8/2021	SYSTEMS AND METHODS FOR HYBRID DEPTH REGULARIZATION
0006-0056-ME-01	ME	In Force	18756418.2	8/17/2018	3673461	7/1/2020	3673461	9/8/2021	SYSTEMS AND METHODS FOR HYBRID DEPTH REGULARIZATION
0006-0056-US-01	US	In Force	157682,295	8/21/2017	20190057513	2/21/2019	10,482,618	11/19/2019	SYSTEMS AND METHODS FOR HYBRID DEPTH REGULARIZATION
0006-0056-US-02	US	In Force	167685,881	11/15/2019	20200151894	5/14/2020	10,818,026	10/27/2020	SYSTEMS AND METHODS FOR HYBRID DEPTH REGULARIZATION
0006-0056-US-03	US	Pending	17/078,732	10/23/2020	20210042952	2/11/2021			SYSTEMS AND METHODS FOR HYBRID DEPTH REGULARIZATION
0006-0056-WO-01	WO	Lapsed	PCI/EP2018/072303	8/17/2018	2019/038193	2/28/2019			SYSTEMS AND METHODS FOR HYBRID DEPTH REGULARIZATION
0006-0058-US-01	US	In Force	157823,473	11/7/2017	20190164341	5/20/2019	10,643,383	5/5/2020	SYSTEMS AND METHODS FOR 3D FACIAL MODELING
0006-0058-US-02	US	In Force	167865,776	5/4/2020	20200334905	10/22/2020	11,257,289	2/22/2022	SYSTEMS AND METHODS FOR 3D FACIAL MODELING
0006-0058-US-03	US	Pending	17/652,078	2/22/2022					SYSTEMS AND METHODS FOR 3D FACIAL MODELING
0006-0058-WO-01	WO	Lapsed	PCI/IB2018/059566	11/27/2018					SYSTEMS AND METHODS FOR DEPTH ESTIMATION USING GENERATIVE MODELS
0006-0059-US-01	US	In Force	627627,650	2/7/2018					SYSTEMS AND METHODS FOR DEPTH ESTIMATION USING GENERATIVE MODELS
0006-0059-US-02	US	In Force	167269,108	2/6/2019	20190244379	8/8/2019	11,024,046	6/1/2021	SYSTEMS AND METHODS FOR DEPTH ESTIMATION USING GENERATIVE MODELS
0006-0059-US-03	US	Pending	177331,428	5/26/2021	20210358154	11/19/2021			SYSTEMS AND METHODS FOR DEPTH ESTIMATION USING GENERATIVE MODELS

Delaware

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Page 1

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "DOC MEMS HOLDING LLC", CHANGING ITS NAME FROM "DOC MEMS HOLDING LLC" TO "ADEIA IMAGING LLC", FILED IN THIS OFFICE ON THE FIFTEENTH DAY OF AUGUST, A.D. 2022, AT 9:22 O`CLOCK A.M.




Jeffrey W. Bullock, Secretary of State

6042363 8100
SR# 20223259347

Authentication: 204159153
Date: 08-15-22

You may verify this certificate online at corp.delaware.gov/authver.shtml

PATENT
REEL: 066352 FRAME: 0743

State of Delaware
Secretary of State
Division of Corporations
Delivered 09:22 AM 08/15/2022
FILED 09:22 AM 08/15/2022
SR 20223259347 - File Number 6042363

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF FORMATION
OF
DOC MEMS HOLDING LLC

Pursuant to Section 18-202 of the
Delaware Limited Liability Company Act

1. The name of the limited liability company is DOC MEMS Holding LLC (the "Company").
2. The Certificate of Formation of the Company is hereby amended to change the name of the Company to Adeia Imaging LLC.
3. Accordingly, Article 1. of the Certificate of Formation shall, as amended, read as follows:

"1. The name of the limited liability company is Adeia Imaging LLC."

[Signature Page Follows]

IN WITNESS WHEREOF, the undersigned authorized person has executed this Certificate of Amendment this 15th day of August, 2022.

DOC MEMS HOLDING LLC

By: Paul Davis

Name: Paul Davis

Title: Authorized Person

[Signature Page to Certificate of Amendment Changing Name (DOC MEMS Holding LLC)]