

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7661025

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	XPERI HOLDING CORPORATION	08/03/2022
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:	17195332
CORRESPONDENCE DATA		
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ATTORNEY DOCKET NUMBER:	P16-03636.CON2	
NAME OF SUBMITTER:	MELISSA YEE	
SIGNATURE:	/Melissa Yee/	
DATE SIGNED:	11/23/2022	
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(iii) all items in any of the foregoing categories, whether or not claims in any of the foregoing have been rejected, withdrawn, cancelled, or the like, (iv) all rights to apply in any or all countries of the world for patents, certificates of invention, utility models, industrial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

APPENDIX

Listed Transferred Assets

[See attached]

Xperi Docket #	Country Code	Patent Status	Application #	Filing Date	Publication #	Publication Date	Patent #	Grant Date	Title
10002-0101-DE-01	DE	In Force	04763763.2	8/3/2004	1654865	5/10/2006	602004035426.0	11/23/2011	A METHOD AND SYSTEM OF FILTERING A RED-EYE PHENOMENON FROM A DIGITAL IMAGE
10002-0101-EP-02	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
10002-0101-EP-03	EP	Lapsed	05750288.2	6/1/2005	1782618	5/9/2007			RED-EYE FILTER METHOD AND APPARATUS
10002-0101-EP-04	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
10002-0101-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
10002-0101-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
10002-0101-IE-01	IE	Lapsed	52005/0040	1/26/2005	20050040	2/22/2006	584150	2/22/2006	RED EYE FILTER METHOD AND APPARATUS USING PRE-ACQUISITION INFORMATION
10002-0101-JP-02	JP	In Force	2006-522314	8/3/2004	2007-503030	2/15/2007	4709147	3/25/2011	A METHOD AND SYSTEM OF FILTERING A RED-EYE PHENOMENON FROM A DIGITAL IMAGE
10002-0101-JP-03	JP	In Force	2007-526252	6/1/2005	2008-510399	4/3/2008	4571190	8/20/2010	RED-EYE FILTER METHOD AND APPARATUS
10002-0101-US-01	US	Lapsed	08/947,603	10/9/1997			6,407,777	6/18/2002	RED-EYE FILTER METHOD AND APPARATUS
10002-0101-US-02	US	Lapsed	10/170,511	6/12/2002			7,042,505	5/9/2006	RED-EYE FILTER METHOD AND APPARATUS
10002-0101-US-03	US	Lapsed	10/635,862	8/5/2002	20040223063	11/11/2004	7,630,006	12/8/2009	DETECTING RED EYE FILTER AND APPARATUS USING META-DATA
10002-0101-US-04	US	Lapsed	10/772,767	2/14/2004			7,352,394	4/1/2008	IMAGE MODIFICATION BASED ON RED-EYE FILTER ANALYSIS
10002-0101-US-05	US	Lapsed	10/919,226	8/16/2004	20050041121	2/24/2005	7,738,015	6/15/2010	RED-EYE FILTER METHOD AND APPARATUS
10002-0101-US-06	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
10002-0101-US-07	US	Lapsed	11/690,834	3/25/2007	20070263104	11/15/2007	7,852,384	12/14/2010	DETECTING RED EYE FILTER AND APPARATUS USING META-DATA
10002-0101-US-08	US	Lapsed	11/769,206	6/27/2007	20080002060	1/3/2008	7,474,341	1/6/2009	PORTABLE DIGITAL CAMERA WITH RED EYE FILTER
10002-0101-US-09	US	Lapsed	12/035,416	2/21/2008	20080186389	8/7/2008			IMAGE MODIFICATION BASED ON RED-EYE FILTER ANALYSIS
10002-0101-US-10	US	Lapsed	61/094,030	9/3/2008					OPTIMIZED PERFORMANCE AND PERFORMANCE FOR RED-EYE FILTER METHOD AND APPARATUS
10002-0101-US-11	US	Lapsed	61/094,034	9/3/2008					OPTIMIZED PERFORMANCE AND PERFORMANCE FOR RED-EYE FILTER METHOD AND APPARATUS
10002-0101-US-12	US	Lapsed	12/192,335	8/15/2008	20080298679	12/4/2008	7,847,840	12/7/2010	DETECTING RED EYE FILTER AND APPARATUS USING META-DATA
10002-0101-US-13	US	Lapsed	12/192,897	8/15/2008	20080316341	12/25/2008	7,804,531	9/28/2010	DETECTING RED EYE FILTER AND APPARATUS USING META-DATA
10002-0101-US-14	US	Lapsed	12/194,148	8/19/2008	20080027520	1/29/2009	7,746,385	6/29/2010	RED-EYE FILTER METHOD AND APPARATUS
10002-0101-US-15	US	Lapsed	12/119,614	5/13/2008	200900211937	9/4/2008	7,787,022	8/31/2010	RED-EYE FILTER METHOD AND APPARATUS
10002-0101-US-16	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
10002-0101-US-17	US	Lapsed	12/551,282	8/31/2009	20100053362	3/4/2010	9,412,007	8/9/2016	PARTIAL FACE DETECTOR RED-EYE FILTER METHOD AND APPARATUS
10002-0101-US-18	US	Lapsed	12/551,312	8/31/2009	20100053367	3/4/2010			PARTIAL FACE TRACKER FOR RED-EYE FILTER METHOD AND APPARATUS
10002-0101-US-19	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
10002-0101-US-20	US	Lapsed	12/611,387	11/3/2009			7,916,190	3/29/2011	RED-EYE FILTER METHOD AND APPARATUS
10002-0101-US-21	US	Lapsed	12/613,457	11/5/2009	20110058069	3/10/2011	8,537,251	9/17/2013	DETECTING RED EYE FILTER AND APPARATUS USING META-DATA
10002-0101-US-22	US	Lapsed	12/707,531	2/17/2010	20100295959	11/25/2010	7,757,828	7/5/2011	RED-EYE FILTER METHOD AND APPARATUS
10002-0101-US-23	US	Lapsed	12/815,396	6/14/2010	20110080499	4/7/2011	8,203,621	6/19/2012	RED-EYE FILTER METHOD AND APPARATUS
10002-0101-US-24	US	Lapsed	12/889,215	9/23/2010	20110058071	3/10/2011			DETECTING RED EYE FILTER AND APPARATUS USING META-DATA
10002-0101-US-25	US	Lapsed	12/941,995	11/8/2010	20110102643	5/5/2011			PARTIAL FACE DETECTOR RED-EYE FILTER METHOD AND APPARATUS
10002-0101-US-26	US	Lapsed	12/958,130	12/1/2010	20110134271	6/9/2011			DETECTING RED EYE FILTER AND APPARATUS USING META-DATA
2-0101-US-27	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
2-0101-US-28	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
2-0101-US-29	US	Lapsed	13/026,303	2/14/2011	20110134287	6/9/2011	8,279,301	10/2/2012	RED-EYE FILTER METHOD AND APPARATUS
2-0101-US-30	US	Lapsed	13/041,392	3/5/2011			8,264,575	9/11/2012	RED EYE FILTER METHOD AND APPARATUS
2-0101-US-31	US	Lapsed	13/735,757	9/19/2011	20120038788	2/16/2012			DETECTING RED EYE FILTER AND APPARATUS USING META-DATA
2-0101-US-32	US	Lapsed	13/569,171	8/7/2012	20130033624	2/7/2013	8,493,466	7/23/2013	RED-EYE FILTER METHOD AND APPARATUS
2-0101-US-33	US	Lapsed	13/656,738	10/22/2012	20130044243	2/21/2013	8,698,916	4/15/2014	RED-EYE FILTER METHOD AND APPARATUS
2-0101-US-34	US	Lapsed	13/769,812	2/18/2013	20130155298	6/20/2013	8,648,938	2/11/2014	DETECTING RED EYE FILTER AND APPARATUS USING META-DATA
2-0101-US-35	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
2-0101-US-36	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
2-0101-US-37	US	Lapsed	14/010,466	8/26/2013					FACE TRACKER AND PARTIAL FACE ANALYZER FOR RED-EYE FILTER METHOD AND APPARATUS
2-0101-US-38	US	Lapsed	14/218,369	3/18/2014	20140198238	7/17/2014	8,885,074	11/11/2014	RED-EYE FILTER METHOD AND APPARATUS
2-0101-US-39	US	Lapsed	15/232,538	8/9/2016	20170070649	3/9/2017			PARTIAL FACE DETECTOR RED-EYE FILTER METHOD AND APPARATUS
2-0101-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
2-0101-WO-02	WO	Lapsed	PC1/EP2009/006361	9/2/2009	WO2010025908A1	3/11/2010			PARTIAL FACE DETECTOR RED-EYE FILTER METHOD AND APPARATUS
2-0101-WO-03	WO	Lapsed	PC1/EP2005/005907	8/16/2004	WO2006018056A1	2/23/2006			METHOD AND APPARATUS FOR DETECTING AND CORRECTING RED-EYE EFFECT
2-0102-JP-01	JP	Lapsed	2009-534560	10/31/2006	20100508571	3/18/2010	4865038	11/18/2011	DIGITAL IMAGE PROCESSING USING FACE DETECTION AND SKIN TONE INFORMATION
2-0102-US-01	US	In Force	10/608,810	6/26/2003	20060204055	4/29/2009	7,574,016	8/11/2009	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
2-0102-US-02	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
2-0102-US-03	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
2-0102-US-04	US	In Force	12/198,621	8/26/2008	20100054549	3/4/2010	8,495,452	7/30/2013	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
2-0102-US-05	US	In Force	12/206,617	9/8/2008	20090002514	1/1/2009	8,005,265	8/23/2011	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION

PATENT

REEL: 061993 FRAME: 0919

Xperi Docket #	Country Code	Patent Status	Application #	Filing Date	Publication #	Publication Date	Patent #	Grant Date	Title
10002-0102-US-06	US	In Force	12/262,024	10/30/2008	20090087042	4/2/2009	7,809,162	10/5/2010	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
10002-0102-US-07	US	In Force	12/262,037	10/30/2008	20090087030	4/2/2009	7,809,162	10/5/2010	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
10002-0102-US-08	US	Lapsed	12/262,061	10/30/2008	20090052749	2/26/2009	7,848,549	12/15/2009	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
10002-0102-US-09	US	In Force	12/262,071	10/30/2008	20090052750	2/26/2009	7,860,274	12/15/2009	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
10002-0102-US-10	US	In Force	12/637,418	12/14/2009	20100092039	4/15/2010	7,855,043	12/14/2010	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
10002-0102-US-11	US	In Force	12/881,182	9/14/2010	20110002545	1/6/2011	8,055,090	11/8/2011	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
10002-0102-US-12	US	In Force	12/890,185	9/24/2010	20110013043	1/20/2011	8,121,430	2/21/2012	DIGITAL IMAGE PROCESSING USING FACE DETECTION AND SKIN TONE INFORMATION
10002-0102-US-13	US	In Force	12/960,479	12/14/2010	20110096187	4/28/2011	8,224,108	7/17/2012	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
10002-0102-US-14	US	In Force	12/959,368	12/3/2010	20110075894	3/31/2011	8,131,016	3/6/2012	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
10002-0102-US-15	US	In Force	12/959,376	12/3/2010	20110075895	3/31/2011	8,126,208	2/28/2012	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
10002-0102-US-16	US	In Force	13/244,682	9/25/2011	20120120304	5/17/2012	8,369,586	2/5/2013	DIGITAL IMAGE PROCESSING USING FACE DETECTION AND SKIN TONE INFORMATION
10002-0102-US-17	US	In Force	13/244,671	9/25/2011	20120229694	9/13/2012	8,331,715	12/11/2012	DIGITAL IMAGE PROCESSING USING FACE DETECTION INFORMATION
10002-0102-US-18	US	In Force	13/748,462	1/23/2013	20130236052	9/12/2013	8,908,932	12/9/2014	DIGITAL IMAGE PROCESSING USING FACE DETECTION AND SKIN TONE INFORMATION
10002-0102-US-19	US	Lapsed	13/968,406	8/15/2013					DIGITAL IMAGE PROCESSING USING FACE DETECTION AND SKIN TONE INFORMATION
10002-0102-US-20	US	In Force	14/563,972	12/8/2014	20160014333	1/14/2016	9,516,217	12/6/2016	DIGITAL IMAGE PROCESSING USING FACE DETECTION AND SKIN TONE INFORMATION
10002-0102-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
10002-0102-US-22	US	Lapsed	15/649,295	7/13/2017	20170372108	12/28/2017			DIGITAL IMAGE PROCESSING USING FACE DETECTION AND SKIN TONE INFORMATION
10002-0102-WO-01	WO	Lapsed	PCT/US2006/060392	10/31/2006	WO2008054422A2	5/8/2008			DIGITAL IMAGE PROCESSING USING FACE DETECTION AND SKIN TONE INFORMATION
10002-0103-US-01	US	In Force	10/764,339	1/22/2004			7,551,755	6/23/2009	CLASSIFICATION AND ORGANIZATION OF CONSUMER DIGITAL IMAGES USING WORKFLOW, AND FACE DETECTION AND RECOGNITION
10002-0106-DE-01	DE	In Force	05792584.4	10/11/2005	1807805A1	7/18/2007	DE602005039054.5	4/10/2013	METHOD AND APPARATUS FOR RED-EYE DETECTION IN AN ACQUIRED DIGITAL IMAGE
10002-0106-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
10002-0106-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
10002-0106-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
10002-0106-IE-01	IE	Lapsed	52005/0096	2/18/2005	20050096	2/8/2006	584135	2/8/2006	METHOD AND APPARATUS FOR RED-EYE DETECTION IN AN ACQUIRED DIGITAL IMAGE
10002-0106-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
10002-0106-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
10002-0106-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
10002-0106-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 USING FACE RECOGNITION
10002-0106-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
10002-0106-US-05	US	Lapsed	61/094,036	9/3/2008					METHOD AND APPARATUS FOR RED-EYE DETECTION IN AN ACQUIRED DIGITAL IMAGE
10002-0106-US-06	US	In Force	12/543,405	8/18/2009	20090304278	12/10/2009	7,953,250	5/31/2011	METHOD AND APPARATUS FOR RED-EYE DETECTION IN AN ACQUIRED DIGITAL IMAGE
10002-0106-US-07	US	In Force	12/551,258	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
10002-0106-US-08	US	In Force	12/834,901	7/13/2010	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	5/8/2011					METHOD AND APPARATUS FOR RED-EYE DETECTION IN AN ACQUIRED DIGITAL IMAGE
2-0106-US-10	US	In Force	13/244,658	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	PCT/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	1/9/2008	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-IE-01	IE	Lapsed	52005/0090	2/18/2005	IE20050090A2	2/22/2006	584152	2/22/2006	A DIGITAL IMAGE ACQUISITION SYSTEM HAVING MEANS FOR DETERMINING A CAMERA MOTION BLUR FUNCTION
2-0109-IE-02	IE	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

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10002-01222-GB-01	GB	In Force	06753948.6	5/29/2006	1800259	6/27/2007	1800259	IMAGE SEGMENTATION METHOD AND SYSTEM
10002-01222-GB-01	GB	In Force	07024773.9	5/29/2006	1818872	5/7/2008	1918872	IMAGE SEGMENTATION METHOD AND SYSTEM
10002-01222-IE-01	IE	In Force	06753948.6	5/29/2006	1800259	6/27/2007	1800259	IMAGE SEGMENTATION METHOD AND SYSTEM
10002-01222-IE-02	IE	Lapsed	520050822	12/8/2005	20050822	8/23/2006	584306	FOREGROUND/BACKGROUND SEGMENTATION IN DIGITAL IMAGES WITH DIFFERENTIAL EXPOSURE
10002-01222-JP-01	JP	Lapsed	2008-528358	5/29/2006	JP2009-506688A	2/12/2009	4234195	CALCULATIONS
10002-01222-SE-01	SE	In Force	06753948.6	5/29/2006	1800259	6/27/2007	1800259	IMAGE SEGMENTATION METHOD AND SYSTEM
10002-01222-US-01	US	Lapsed	11/217,788	8/30/2005	20060039690	2/23/2006	7,606,417	FOREGROUND/BACKGROUND SEGMENTATION IN DIGITAL IMAGES WITH DIFFERENTIAL EXPOSURE
10002-01222-US-02	US	Lapsed	11/421,027	5/30/2006	20060285754	12/21/2006	7,680,342	CALCULATIONS
10002-01222-US-03	US	In Force	12/562,833	9/18/2009	20100008577	1/14/2010	7,796,816	INDOOR/OUTDOOR CLASSIFICATION IN DIGITAL IMAGES
10002-01222-US-04	US	In Force	12/7712,006	2/24/2010	20100149371	6/17/2010	7,796,822	FOREGROUND/BACKGROUND SEGMENTATION IN DIGITAL IMAGES
10002-01222-US-05	US	In Force	12/881,029	9/13/2010	20110025859	2/3/2011	7,957,597	FOREGROUND/BACKGROUND SEGMENTATION IN DIGITAL IMAGES
10002-01222-US-06	US	In Force	12/881,170	9/13/2010	20100328486	12/30/2010	7,912,285	FOREGROUND/BACKGROUND SEGMENTATION IN DIGITAL IMAGES WITH DIFFERENTIAL EXPOSURE
10002-01222-US-07	US	In Force	13/040,275	3/4/2011	20110157408	6/30/2011	8,175,385	CALCULATIONS
10002-01222-US-08	US	In Force	13/099,335	5/2/2011	20110268359	11/3/2011	8,170,350	FOREGROUND/BACKGROUND SEGMENTATION IN DIGITAL IMAGES
10002-01222-WO-01	WO	Lapsed	PCT/EP2006/005109	5/29/2006	WO2007025578	8/3/2007		IMAGE SEGMENTATION METHOD AND SYSTEM
10002-0128-DE-01	DE	In Force	06791655.1	8/25/2006	1812901	5/9/2007	602006007094.2	METHOD AND APPARATUS OF CORRECTING HYBRID FLASH ARTIFACTS IN DIGITAL IMAGES
10002-0128-EP-01	EP	Lapsed	06791655.1	8/25/2006	1812901A1	5/9/2007	EP1812901B1	METHOD AND APPARATUS OF CORRECTING HYBRID FLASH ARTIFACTS IN DIGITAL IMAGES
10002-0128-FR-01	FR	In Force	06791655.1	8/25/2006	1812901	5/9/2007	1812901	METHOD AND APPARATUS OF CORRECTING HYBRID FLASH ARTIFACTS IN DIGITAL IMAGES
10002-0128-GB-01	GB	In Force	06791655.1	8/25/2006	1812901	5/9/2007	1812901	METHOD AND APPARATUS OF CORRECTING HYBRID FLASH ARTIFACTS IN DIGITAL IMAGES
10002-0128-JP-01	JP	In Force	2008-540467	8/25/2006	JP2009-516441A	4/16/2009	4627557	METHOD AND APPARATUS OF CORRECTING HYBRID FLASH ARTIFACTS IN DIGITAL IMAGES
10002-0128-US-01	US	Lapsed	11/282,955	11/18/2005	20070116380	5/24/2007	7,599,577	METHOD AND APPARATUS OF CORRECTING HYBRID FLASH ARTIFACTS IN DIGITAL IMAGES
10002-0128-US-02	US	In Force	12/558,859	9/14/2009	20100040284	2/18/2010	7,865,036	METHOD AND APPARATUS OF CORRECTING HYBRID FLASH ARTIFACTS IN DIGITAL IMAGES
10002-0128-US-03	US	In Force	12/960,487	12/4/2010	20110074985	3/31/2011	8,126,265	METHOD AND APPARATUS OF CORRECTING HYBRID FLASH ARTIFACTS IN DIGITAL IMAGES
10002-0128-US-04	US	In Force	13/357,548	1/24/2012	20120120274	5/17/2012	8,422,780	METHOD AND APPARATUS OF CORRECTING HYBRID FLASH ARTIFACTS IN DIGITAL IMAGES
10002-0128-US-05	US	In Force	13/658,775	10/23/2012	20130044236	2/21/2013	8,823,830	METHOD AND APPARATUS OF CORRECTING HYBRID FLASH ARTIFACTS IN DIGITAL IMAGES
10002-0128-WO-01	WO	Lapsed	PCT/EP2006/008342	8/25/2006	WO2007057063A1	5/24/2007		METHOD AND APPARATUS OF CORRECTING HYBRID FLASH ARTIFACTS IN DIGITAL IMAGES
10002-0142-CN-01	CN	In Force	200780013481.8	2/13/2007	101421748	4/29/2009	200780013481.8	AUTOMATIC DETECTION AND CORRECTION OF NON-RED EYE FLASH DEFECTS
10002-0142-EP-01	EP	Lapsed	07756947.3	2/13/2007	1987475	11/5/2008		AUTOMATIC DETECTION AND CORRECTION OF NON-RED EYE FLASH DEFECTS
10002-0142-IE-01	IE	Lapsed	520060559	7/27/2006	20060559	11/1/2006	584402	AUTOMATIC DETECTION AND CORRECTION OF NON-RED EYE FLASH DEFECTS
10002-0142-JP-01	JP	Lapsed	2008-555463	2/13/2007	JP2009-527061A	7/23/2009	4643715	AUTOMATIC DETECTION AND CORRECTION OF NON-RED EYE FLASH DEFECTS
10002-0142-US-01	US	Lapsed	11/674,633	2/13/2007	20070189606	8/16/2007	7,336,821	AUTOMATIC DETECTION AND CORRECTION OF NON-RED EYE FLASH DEFECTS
2-0142-US-02	US	Lapsed	11/841,855	8/20/2007	20080049970	2/28/2008	8,184,900	AUTOMATIC DETECTION AND CORRECTION OF NON-RED EYE FLASH DEFECTS
2-0142-WO-01	WO	Lapsed	PCT/US2007/062090	2/13/2007	2007095553	8/23/2007		AUTOMATIC DETECTION AND CORRECTION OF NON-RED EYE FLASH DEFECTS
2-0143-CN-01	CN	In Force	200680055962.0	8/22/2006	101512549	8/19/2009	1015125498	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
2-0143-DE-01	DE	In Force	07764695.8	6/18/2007	2052349	4/29/2009	602007002923.6	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
2-0143-DE-02	DE	In Force	06802192.2	8/22/2006	2052347	4/29/2009	602006021349.2	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
2-0143-EP-01	EP	Lapsed	06802192.2	8/22/2006	2052347A1	4/29/2009	EP2052347B1	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
2-0143-EP-02	EP	Lapsed	07764695.8	6/18/2007	2052349A1	4/29/2009	EP2052349B1	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
2-0143-EP-03	EP	Lapsed	10163739.5	5/25/2010	2256666	12/1/2010		REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
2-0143-FR-01	FR	Lapsed	07764695.8	6/18/2007	2052349	4/29/2009	2052349	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
2-0143-FR-02	FR	In Force	06802192.2	8/22/2006	2052347A1	4/29/2009	2052347	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
2-0143-GB-01	GB	Lapsed	07764695.8	6/18/2007	2052349	4/29/2009	2052349	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
2-0143-GB-02	GB	In Force	06802192.2	8/22/2006	2052347A1	4/29/2009	2052347	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
2-0143-IE-01	IE	Lapsed	520060826	11/15/2006	20060826	6/27/2007	584624	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
2-0143-IE-02	IE	Lapsed	06802192.2	8/22/2006	2052347A1	4/29/2009	2052347	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
2-0143-JP-01	JP	In Force	2009-524590	8/22/2006	JP2010-500687A	1/7/2010	4472781	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
2-0143-JP-02	JP	In Force	2009-524084	6/18/2007	JP2010-500836A	1/7/2010	5149293	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
2-0143-US-01	US	In Force	11/464,083	8/11/2006			7,315,631	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
2-0143-US-02	US	In Force	11/753,397	5/24/2007	20080037838	2/14/2008	7,403,643	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
2-0143-US-03	US	In Force	11/765,307	6/19/2007	20080037827	2/14/2008	7,469,055	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
2-0143-US-04	US	In Force	11/765,212	6/19/2007	20080037839	2/14/2008	7,460,694	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
2-0143-US-05	US	Lapsed	11/766,674	6/21/2007	20080037840	2/14/2008	7,460,695	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
2-0143-US-06	US	In Force	12/063,089	6/18/2007	20090263022	10/22/2009	8,055,920	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE

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10002-0143-US-07	US	In Force	12/167,500	7/3/2008	20080267461	8,050,465	11/1/2011	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
10002-0143-US-08	US	In Force	12/333,221	12/11/2008	20090208056	7,864,990	1/4/2011	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
10002-0143-US-09	US	In Force	12/983,863	1/3/2011	20110129121	8,270,674	9/18/2012	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
10002-0143-US-10	US	In Force	13/234,149	9/15/2011	20120062761	8,422,739	4/16/2013	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
10002-0143-US-11	US	In Force	13/245,738	9/26/2011	20120070087	8,509,498	8/13/2013	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
10002-0143-US-12	US	In Force	13/797,983	3/12/2013	20130195318	8,666,124	3/4/2014	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
10002-0143-US-13	US	In Force	13/797,989	3/12/2013	20130195319	8,744,145	6/3/2014	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
10002-0143-US-14	US	In Force	13/798,011	3/12/2013	20130195320	8,666,125	3/4/2014	REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
10002-0143-WO-01	WO	Lapsed	PCT/US2006/032959	8/11/2006	2008018887			REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
10002-0143-WO-02	WO	Lapsed	PCT/EP2007/005330	8/11/2006	WO2008017343A1			REAL-TIME FACE TRACKING IN A DIGITAL IMAGE ACQUISITION DEVICE
10002-0146-CN-01	CN	In Force	200780015914.3	5/3/2007	201443791	101443791	5/30/2012	IMPROVED FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
10002-0146-EP-01	EP	Lapsed	07797335.2	5/3/2007	2016530A2			IMPROVED FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
10002-0146-IE-01	IE	Lapsed	S2006/0564	7/28/2006	IE20060564A2	S84400	11/1/2006	IMPROVED FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
10002-0146-IN-01	IN	Lapsed	6274/CHENP/2008	5/3/2007				IMPROVED FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
10002-0146-JP-01	JP	Lapsed	2009-510085	5/3/2007	JP2009-536417A	5087614	9/14/2012	IMPROVED FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
10002-0146-KR-01	KR	In Force	10-2008-7029351	5/3/2007	KR10-2009-0007779A	1266817	5/16/2013	IMPROVED FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
10002-0146-KR-02	KR	Lapsed	10-2012-7000843	3/5/2007	10-2012-0032524A	1277229	6/14/2013	IMPROVED FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
10002-0146-US-01	US	Lapsed	607746.363	5/3/2006				FOREGROUND / BACKGROUND SEPARATION
10002-0146-US-02	US	In Force	11/744,020	5/3/2007	20070269108	8,363,908	1/29/2013	FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
10002-0146-US-03	US	In Force	12/879,953	9/10/2010	20100329549	8,358,841	1/22/2013	FOREGROUND/BACKGROUND SEPARATION IN DIGITAL IMAGES
10002-0146-US-04	US	In Force	13/751,973	1/28/2013	20130208979	9,117,282	8/25/2015	FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
10002-0146-US-05	US	In Force	14/834,111	8/24/2015	20160078630	9,684,966	6/20/2017	FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
10002-0146-WO-01	WO	Lapsed	PCT/US2007/068190	5/3/2007	2007131140			IMPROVED FOREGROUND / BACKGROUND SEPARATION IN DIGITAL IMAGES
10002-0149-CN-01	CN	In Force	200680054358.6	8/3/2006	101427266	101427266	10/3/2012	METHOD AND APPARATUS FOR SELECTIVE DISQUALIFICATION OF DIGITAL IMAGES
10002-0149-EP-01	EP	Lapsed	60789329.7	8/3/2006	1989663A1			METHOD AND APPARATUS FOR SELECTIVE DISQUALIFICATION OF DIGITAL IMAGES
10002-0149-JP-01	JP	In Force	2008-556300	8/3/2006	JP2009-527983A	4970469	4/13/2012	METHOD AND APPARATUS FOR SELECTIVE DISQUALIFICATION OF DIGITAL IMAGES
10002-0149-US-01	US	Lapsed	607776.338	2/24/2006				HUMAN EYE DETECTOR
10002-0149-US-02	US	In Force	11/460,218	7/26/2006	20070201724	7,792,335	9/7/2010	METHOD AND APPARATUS FOR SELECTIVE DISQUALIFICATION OF DIGITAL IMAGES
10002-0149-US-03	US	In Force	12/849,597	8/3/2010	20110033112	7,995,795	8/9/2011	METHOD AND APPARATUS FOR SELECTIVE DISQUALIFICATION OF DIGITAL IMAGES
10002-0149-US-04	US	In Force	13/190,986	7/26/2011	20110280446	8,285,001	10/9/2012	METHOD AND APPARATUS FOR SELECTIVE DISQUALIFICATION OF DIGITAL IMAGES
10002-0149-WO-01	WO	Lapsed	PCT/US2006/030315	2/24/2006	2007097777			METHOD AND APPARATUS FOR SELECTIVE DISQUALIFICATION OF DIGITAL IMAGES
10002-0169-CN-01	CN	Lapsed	200890000048	3/5/2008				RED EYE FALSE POSITIVE FILTERING USING FACE LOCATION AND ORIENTATION
10002-0169-EP-01	EP	Lapsed	08731476.1	3/5/2008	2145288			RED EYE FALSE POSITIVE FILTERING USING FACE LOCATION AND ORIENTATION
10002-0169-JP-01	JP	Lapsed	2009-552871	3/5/2008	JP2010520567A			RED EYE FALSE POSITIVE FILTERING USING FACE LOCATION AND ORIENTATION
10002-0169-KR-01	KR	Lapsed	2009-702609	3/5/2008	KR2010-2009-0118090	1159830	6/19/2012	RED EYE FALSE POSITIVE FILTERING USING FACE LOCATION AND ORIENTATION
10002-0169-US-01	US	Lapsed	60/892,882	3/5/2007				RED EYE FALSE POSITIVE FILTERING USING FACE LOCATION AND ORIENTATION
2-0169-US-02	US	In Force	12/043,025	5/23/2011	20080219518	7,995,804	8/9/2011	RED EYE FALSE POSITIVE FILTERING USING FACE LOCATION AND ORIENTATION
2-0169-US-03	US	In Force	13/113,913	5/23/2011	20110222730	8,233,674	7/31/2012	RED EYE FALSE POSITIVE FILTERING USING FACE LOCATION AND ORIENTATION
2-0169-WO-01	WO	Lapsed	PCT/US2008/055964	3/5/2007	2008109708			RED EYE FALSE POSITIVE FILTERING USING FACE LOCATION AND ORIENTATION
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			FACE CATEGORIZATION AND ANNOTATION OF A MOBILE PHONE CONTACT LIST
2-0196-US-01	US	Lapsed	60/893,114	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	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	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	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	8,712,160	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	PCT/US2008/055831	3/5/2007	2008109622			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	602007011994.4	1/12/2011	IMAGE PROCESSING METHOD AND APPARATUS
2-0204-EP-01	EP	Lapsed	07819840.5	11/14/2007	2160715A1	EP2160715B1	1/12/2011	IMAGE PROCESSING METHOD AND APPARATUS
2-0204-FI-01	FI	Lapsed	07819840.5	11/14/2007	2160715A1	EP2160715B1	1/12/2011	IMAGE PROCESSING METHOD AND APPARATUS
2-0204-FR-01	FR	Lapsed	07819840.5	11/14/2007	2160715	2160715	1/12/2011	IMAGE PROCESSING METHOD AND APPARATUS
2-0204-GB-01	GB	Lapsed	07819840.5	11/14/2007	2160715	2160715	1/12/2011	IMAGE PROCESSING METHOD AND APPARATUS
2-0204-IE-01	IE	Lapsed	S2008/0337	4/30/2008	20080337	S84987	10/1/2008	IMAGE PROCESSING METHOD AND APPARATUS
2-0204-JP-01	JP	Lapsed	2010-525204	11/14/2007	JP2010-539614A	4643764	12/16/2010	IMAGE PROCESSING METHOD AND APPARATUS
2-0204-KR-01	KR	Lapsed	2010-7005800	11/14/2007	10-2010-0064369			IMAGE PROCESSING METHOD AND APPARATUS
2-0204-NL-01	NL	Lapsed	07819840.5	11/14/2007	2160715	2160715	1/12/2011	IMAGE PROCESSING METHOD AND APPARATUS

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I0002-0204-US-01	SE	Lapsed	07819840.5	11/14/2007	2160715	5/3/2011	2160715	1/12/2011	IMAGE PROCESSING METHOD AND APPARATUS
I0002-0204-US-01	US	Lapsed	60/893,116	3/5/2007					SLIDING ADAPTIVE METHOD USING BOTH A PREVIEW PICTURE AND A FULL RESOLUTION PICTURE
I0002-0204-US-02	US	In Force	17/856,721	9/18/2007	20080219581	9/11/2008	8,417,055	4/9/2013	IMAGE PROCESSING METHOD AND APPARATUS
I0002-0204-US-03	US	In Force	12/330,719	12/9/2008	20090167893	7/2/2009	8,264,576	9/11/2012	RGBW SENSOR ARRAY
I0002-0204-US-04	US	In Force	12/901,577	10/11/2010	20110102638	5/5/2011	8,878,967	11/4/2014	RGBW SENSOR ARRAY
I0002-0204-US-05	US	Lapsed	13/772,323	2/20/2013	20130236094	9/12/2013	8,649,627	2/11/2014	IMAGE PROCESSING METHOD AND APPARATUS
I0002-0204-US-06	US	In Force	13/772,324	2/20/2013	20130229542	9/5/2013	8,737,766	5/27/2014	IMAGE PROCESSING METHOD AND APPARATUS
I0002-0204-WO-01	WO	Lapsed	PC1/EP2007/009939	11/14/2007	WO2009036793	3/26/2009			RGBW SENSOR ARRAY
I0002-0204-WO-02	WO	Lapsed	PC1/EP2009/008674	11/14/2007	WO20110066381A1	6/17/2010			RGBW SENSOR ARRAY
I0002-0208-US-01	US	Lapsed	60/915,669	5/2/2007					METHOD OF DETECTING RED EYE IN A DIGITAL IMAGE
I0002-0208-US-02	US	In Force	11/936,085	11/7/2007	20080112599	5/15/2008	8,170,294	5/1/2012	METHOD OF DETECTING RED EYE IN A DIGITAL IMAGE
I0002-0208-US-03	US	Lapsed	60/915,580	5/2/2007					METHOD OF DETECTING RED EYE IN A DIGITAL IMAGE
I0002-0211-US-01	US	Lapsed	60/945,558	6/21/2007					DIGITAL IMAGE ENHANCEMENT WITH REFERENCE IMAGES
I0002-0211-US-02	US	In Force	12/140,048	6/16/2008	20080317378	12/25/2008	8,682,097	3/25/2014	DIGITAL IMAGE ENHANCEMENT WITH REFERENCE IMAGES
I0002-0211-US-03	US	In Force	12/142,773	6/20/2008	20080317379	12/25/2008	8,213,737	7/3/2012	DIGITAL IMAGE ENHANCEMENT WITH REFERENCE IMAGES
I0002-0211-WO-01	WO	Lapsed	PC1/US2008/067746	6/20/2008	2008157792	12/24/2008			DIGITAL IMAGE ENHANCEMENT WITH REFERENCE IMAGES
I0002-0212-US-01	US	In Force	11/859,164	9/21/2007	20090080796	3/26/2009			FLASH ARTIFACT EYE DEFECT CORRECTION IN BLURRED IMAGES USING ANISOTROPIC BLURRING
I0002-0212-WO-01	WO	Lapsed	PC1/EP2008/004920	9/21/2007	WO200903682A1	3/26/2009	8,180,173	5/15/2012	DEFECT CORRECTION IN BLURRED IMAGES
I0002-0223-IE-01	IE	Lapsed	52007/0820	11/12/2007	IE20070820A2	12/10/2008	S85074	12/10/2008	METHOD FOR IMPROVED RED EYE DETECTION IN ISO IMAGES
I0002-0223-US-02	US	In Force	11/861,257	9/25/2007	20090080797	3/26/2009	8,503,818	8/6/2013	EYE DEFECT DETECTION IN INTERNATIONAL STANDARDS ORGANIZATION IMAGES
I0002-0223-US-02	US	In Force	13/947,863	7/22/2013	20130329096	12/12/2013	8,849,062	9/30/2014	EYE DEFECT DETECTION IN INTERNATIONAL STANDARDS ORGANIZATION IMAGES
I0002-0224-IE-01	IE	Lapsed	52008/0161	3/4/2008	20080161	9/17/2008	S84977	9/17/2008	FACE DETECTION IN MID-SHOT DIGITAL IMAGES
I0002-0224-US-01	US	In Force	12/026,484	2/5/2008	20090196466	8/6/2009	8,494,286	7/23/2013	FACE DETECTION IN MID-SHOT DIGITAL IMAGES
I0002-0242-CN-01	CN	In Force	20090103029, X	1/30/2009	102017599	4/13/2011	ZL20090103029, X	9/3/2014	METHODS AND APPARATUS FOR EYE GAZE MEASUREMENT
I0002-0242-DE-01	DE	In Force	9706058.6	1/30/2009	2165523	3/24/2010	602009001078.6	4/13/2014	METHODS AND APPARATUS FOR EYE GAZE MEASUREMENT
I0002-0242-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
I0002-0242-EP-01	EP	Lapsed	09706058.6	1/30/2009	2165523A2	3/24/2010	EP2165523B1	4/13/2011	METHODS AND APPARATUS FOR EYE GAZE MEASUREMENT
I0002-0242-EP-02	EP	Lapsed	10164430.0	1/30/2009	2227002	9/8/2010	2227002	6/29/2016	METHODS AND APPARATUS FOR EYE GAZE MEASUREMENT
I0002-0242-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
I0002-0242-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
I0002-0242-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
I0002-0242-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
I0002-0242-JP-01	JP	In Force	2010-541073	1/30/2009	JP2011509584A	3/24/2011	5140163	11/22/2012	METHODS AND APPARATUS FOR EYE GAZE MEASUREMENT
I0002-0242-JP-02	JP	In Force	2012-252026	1/30/2009	JP2013-062860A	4/4/2013	5530503	4/25/2014	METHODS AND APPARATUS FOR EYE GAZE MEASUREMENT
I0002-0242-KR-01	KR	In Force	2010-7013935	1/30/2009	KR2010-01112560A	10/19/2010	1204046	11/16/2012	METHODS AND APPARATUS FOR EYE GAZE MEASUREMENT
I0002-0242-US-01	US	Lapsed	61/024,551	1/30/2008					METHODS AND APPARATUS FOR EYE GAZE MEASUREMENT
2-0242-US-02	US	In Force	12/362,399	1/29/2009	20090189998	7/30/2009	8,212,864	7/3/2012	DEFECTS
2-0242-US-03	US	In Force	13/306,972	11/29/2011	20120105687	5/3/2012	8,525,898	9/3/2013	METHODS AND APPARATUS FOR EYE GAZE MEASUREMENT
2-0242-US-04	US	In Force	13/802,672	3/13/2013	20130194462	8/1/2013	9,137,425	9/15/2015	DEFECTS
2-0242-US-05	US	Lapsed	13/802,707	3/13/2013	20130194461	8/1/2013			DEFECTS
2-0242-WO-01	WO	Lapsed	PC1/EP2009/051081	1/30/2009	WO2009095481A2	8/6/2009			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	PC1/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	20090244296	10/1/2009	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	20110053654	3/3/2011	8,243,182	8/14/2012	METHOD OF MAKING A DIGITAL CAMERA IMAGE OF A SCENE INCLUDING THE CAMERA USER
2-0278-CN-01	CN	In Force	20090102866.0	1/20/2009	102007499	4/6/2011	ZL20090102866.0	3/11/2015	DEFECTING FACIAL EXPRESSIONS IN DIGITAL IMAGES
2-0278-JP-01	JP	In Force	2010-544617	1/20/2009	JP2011-511977A	4/14/2011	5639478	10/31/2014	DEFECTING FACIAL EXPRESSIONS IN DIGITAL IMAGES
2-0278-KR-01	KR	In Force	10-2010-7016964	1/20/2009	10-2010-0116178	10/29/2010	10-1615254	4/19/2016	DEFECTING FACIAL EXPRESSIONS IN DIGITAL IMAGES
2-0278-US-01	US	Lapsed	61/024,508	1/29/2008					METHODS AND APPARATUS FOR DETECTING FACIAL EXPRESSIONS IN DIGITAL IMAGES AND APPLICATIONS THEREOF
2-0278-US-02	US	In Force	12/354,707	1/15/2009	20090190803	7/30/2009	8,750,578	6/10/2014	DEFECTING FACIAL EXPRESSIONS IN DIGITAL IMAGES
2-0278-US-03	US	In Force	14/300,150	6/9/2014	20140347514	11/27/2014	9,462,180	10/4/2016	DEFECTING FACIAL EXPRESSIONS IN DIGITAL IMAGES
2-0278-US-04	US	In Force	15/284,280	10/3/2016	20170026567	1/26/2017	9,942,470	4/10/2018	DEFECTING FACIAL EXPRESSIONS IN DIGITAL IMAGES
2-0278-US-05	US	In Force	15/948,848	4/9/2018	20180295279	10/11/2018	10,778,885	9/15/2020	DEFECTING FACIAL EXPRESSIONS IN DIGITAL IMAGES

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I0002-0278-US-06	US	Pending	17/020,535	9/14/2020	20210067686			DETECTING FACIAL EXPRESSIONS IN DIGITAL IMAGES
I0002-0278-US-07	US	Pending	17/643,162	12/7/2021	20220103749			DETECTING FACIAL EXPRESSIONS IN DIGITAL IMAGES
I0002-0278-WO-01	WO	Lapsed	PCT/EP2009/000315	1/20/2009	WO2009095168A1			DETECTING FACIAL EXPRESSIONS IN DIGITAL IMAGES
I0002-0282-US-01	US	Lapsed	61/120,289	12/5/2008				FACE RECOGNITION USING FACE TRACKER CLASSIFIER DATA
I0002-0282-US-02	US	In Force	12/631,711	12/4/2009	20100141786	8,687,078	4/1/2014	FACE RECOGNITION USING FACE TRACKER CLASSIFIER DATA
I0002-0282-US-03	US	In Force	12/631,733	12/4/2009	20100141787	8,411,912	4/2/2013	FACE RECOGNITION USING FACE TRACKER CLASSIFIER DATA
I0002-0282-US-04	US	In Force	13/658,022	10/23/2012	20130044923	8,977,011	3/10/2015	FACE RECOGNITION USING FACE TRACKER CLASSIFIER DATA
I0002-0282-US-05	US	In Force	13/787,848	3/7/2013	20130229545	8,731,249	5/20/2014	FACE RECOGNITION USING FACE TRACKER CLASSIFIER DATA
I0002-0282-WO-01	WO	Lapsed	PCT/EP2009/003603	12/5/2008	WO2010063463A2			FACE RECOGNITION USING FACE TRACKER CLASSIFIER DATA
I0002-0293-CN-01	CN	In Force	200980131123.6	8/11/2009	102119361	41200980131123.6	12/10/2014	IN-CAMERA BASED METHOD OF DETECTING DEFECT EYE WITH HIGH ACCURACY
I0002-0293-DE-01	DE	In Force	09777797.3	8/11/2009	DE602009006658	602009006658	4/25/2012	IN-CAMERA BASED METHOD OF DETECTING DEFECT EYE WITH HIGH ACCURACY
I0002-0293-EP-01	EP	Lapsed	09777797.3	8/11/2009	2324391A1	EP2324391B1	4/25/2012	IN-CAMERA BASED METHOD OF DETECTING DEFECT EYE WITH HIGH ACCURACY
I0002-0293-FR-01	FR	In Force	09777797.3	8/11/2009	2324391A1	2324391	4/25/2012	IN-CAMERA BASED METHOD OF DETECTING DEFECT EYE WITH HIGH ACCURACY
I0002-0293-GB-01	GB	In Force	09777797.3	8/11/2009	2324391A1	2324391	4/25/2012	IN-CAMERA BASED METHOD OF DETECTING DEFECT EYE WITH HIGH ACCURACY
I0002-0293-JP-01	JP	In Force	2011-522426	8/11/2009	JP2011-530911A	5530440	4/25/2014	IN-CAMERA BASED METHOD OF DETECTING DEFECT EYE WITH HIGH ACCURACY
I0002-0293-KR-01	KR	In Force	10-2011-7002212	8/11/2009	KR10-2011-0058773A	1493064	2/6/2015	IN-CAMERA BASED METHOD OF DETECTING DEFECT EYE WITH HIGH ACCURACY
I0002-0293-US-01	US	In Force	12/191,304	8/14/2008	20100039520	8,081,254	12/20/2011	IN-CAMERA BASED METHOD OF DETECTING DEFECT EYE WITH HIGH ACCURACY
I0002-0293-US-02	US	Lapsed	13/164,685	6/20/2011	20110304748	8,334,926	12/18/2012	IN-CAMERA BASED METHOD OF DETECTING DEFECT EYE WITH HIGH ACCURACY
I0002-0293-US-03	US	In Force	13/656,737	10/21/2012	20130044199	8,743,274	6/3/2014	IN-CAMERA BASED METHOD OF DETECTING DEFECT EYE WITH HIGH ACCURACY
I0002-0293-WO-01	WO	Lapsed	PCT/EP2009/005809	8/14/2008	WO2010017953A1			IN-CAMERA BASED METHOD OF DETECTING DEFECT EYE WITH HIGH ACCURACY
I0002-0300-US-01	US	In Force	12/479,593	6/5/2009	20090303342	7,916,897	3/29/2011	FACE TRACKING FOR CONTROLLING IMAGING PARAMETERS
I0002-0300-US-02	US	In Force	12/814,245	6/11/2010	20110026780	8,385,610	2/26/2013	FACE TRACKING FOR CONTROLLING IMAGING PARAMETERS
I0002-0300-US-03	US	In Force	13/771,061	2/19/2013	20130223698	8,934,680	1/13/2015	FACE TRACKING FOR CONTROLLING IMAGING PARAMETERS
I0002-0300-US-04	US	In Force	14/561,905	12/5/2014	20150092078	9,398,209	7/19/2016	FACE TRACKING FOR CONTROLLING IMAGING PARAMETERS
I0002-0300-US-05	US	In Force	15/211,975	7/15/2016	20160330369	9,681,040	6/13/2017	FACE TRACKING FOR CONTROLLING IMAGING PARAMETERS
I0002-0314-JP-01	JP	In Force	2012-512405	5/28/2010	JP2012528506A	5456159	1/17/2014	METHODS AND APPARATUSES FOR FOREGROUND, TOP-OF-THE-HEAD SEPARATION FROM BACKGROUND
I0002-0314-US-01	US	Lapsed	61/182,625	5/29/2009				METHODS AND APPARATUSES FOR FOREGROUND, TOP-OF-THE-HEAD SEPARATION FROM BACKGROUND
I0002-0314-US-02	US	In Force	12/790,594	5/28/2010	20110050938	8,633,999	1/21/2014	METHODS AND APPARATUSES FOR FOREGROUND, TOP-OF-THE-HEAD SEPARATION FROM BACKGROUND
I0002-0314-WO-01	WO	Lapsed	PCT/EP2010/057492	5/29/2009	WO2010136593A2			METHODS AND APPARATUSES FOR FOREGROUND, TOP-OF-THE-HEAD SEPARATION FROM BACKGROUND
I0002-0317-JP-01	JP	Lapsed	2012-516781	6/29/2010	2012-530994			METHODS AND APPARATUSES FOR HALF-FACE DETECTION
I0002-0317-US-01	US	Lapsed	61/221,455	6/29/2009				METHODS AND APPARATUSES FOR HALF-FACE DETECTION
I0002-0317-US-02	US	In Force	12/825,280	6/28/2010	20110158547	8,605,955	12/10/2013	METHODS AND APPARATUSES FOR HALF-FACE DETECTION
2-0317-WO-01	WO	Lapsed	PCT/EP2010/059228	6/29/2009	WO20101000841A1			METHODS AND APPARATUSES FOR HALF-FACE DETECTION
2-0318-CN-01	CN	Lapsed	200980117715.2	7/28/2009	102027505			AUTOMATIC FACE AND SKIN BEAUTIFICATION USING FACE DETECTION
2-0318-CN-02	CN	Lapsed	20170079433.4	7/28/2009	106919911			AUTOMATIC FACE AND SKIN BEAUTIFICATION USING FACE DETECTION
2-0318-EP-01	EP	Lapsed	09777489.7	7/28/2009	2277141			AUTOMATIC FACE AND SKIN BEAUTIFICATION USING FACE DETECTION
2-0318-JP-01	JP	In Force	2011-520374	7/28/2009	JP2011529649A	5547730	5/23/2014	AUTOMATIC FACE BEAUTIFICATION USING FACE DETECTION
2-0318-KR-01	KR	Lapsed	2010-7025740	7/28/2009	KR1020110033980	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	12/512,796	7/30/2009	20100026831	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	8,902,326	12/2/2014	AUTOMATIC FACE AND SKIN BEAUTIFICATION USING FACE DETECTION
2-0318-WO-01	WO	Lapsed	PCT/EP2009/005461	7/28/2009	WO2010012448A2			AUTOMATIC FACE AND SKIN BEAUTIFICATION USING FACE DETECTION
2-0351-US-01	US	In Force	12/572,930	10/2/2009	20110081052	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	9,323,979	4/26/2016	FACE RECOGNITION PERFORMANCE USING ADDITIONAL IMAGE FEATURES
2-0351-US-04	US	In Force	15/137,930	4/25/2016	20160314346	10,032,068	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			IMPROVING FACE RECOGNITION PERFORMANCE USING ADDITIONAL IMAGE FEATURES
2-0357-US-01	US	In Force	13/035,907	2/25/2011	20120121898	8,835,777	9/16/2014	AUTOMATIC DETECTION OF VERTICAL GAZE USING AN EMBEDDED IMAGING DEVICE
2-0357-US-02	US	Lapsed	13/219,569	8/26/2011	20120219180			AUTOMATIC DETECTION OF VERTICAL GAZE USING AN EMBEDDED IMAGING DEVICE
2-0358-US-01	US	In Force	12/827,868	6/30/2010	20110002506	8,520,089	8/27/2013	EYE BEAUTIFICATION
2-0358-US-02	US	In Force	13/969,558	8/17/2013	20130329079	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	9,691,136	6/27/2017	EYE BEAUTIFICATION UNDER INACCURATE LOCALIZATION
2-0358-US-04	US	In Force	15/7628,997	6/21/2017	20170325135	10,304,166	5/28/2019	EYE BEAUTIFICATION UNDER INACCURATE LOCALIZATION

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I0002-0358-WO-01	WO	Lapsed	PT/EP2011/060013	6/30/2010	WO2012000800A1	8/25/2011	8,698,924	4/15/2014	EYE BEAUTIFICATION
I0002-0360-US-01	US	In Force	12/941,983	11/8/2010	20110205381	8/25/2011	8,698,924	4/15/2014	ONE MAPPING FOR LOW-LIGHT VIDEO FRAME ENHANCEMENT
I0002-0360-US-02	US	In Force	14/012,806	8/28/2013	20130342738	12/26/2013	8,890,983	11/18/2014	ONE MAPPING FOR LOW-LIGHT VIDEO FRAME ENHANCEMENT
I0002-0360-US-03	US	In Force	14/535,036	11/6/2014	20150062387	3/5/2015	9,094,648	7/28/2015	ONE MAPPING FOR LOW-LIGHT VIDEO FRAME ENHANCEMENT
I0002-0360-US-04	US	In Force	14/810,297	7/27/2015	20150334283	11/19/2015	9,307,212	4/5/2016	ONE MAPPING FOR LOW-LIGHT VIDEO FRAME ENHANCEMENT
I0002-0361-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
I0002-0361-DE-01	DE	In Force	11/647,123	9/28/2011	2622840	8/7/2013	2622840	7/19/2017	CONTINUOUS AUTOFOCUS BASED ON FACE DETECTION AND TRACKING
I0002-0361-EP-01	EP	Lapsed	11/647,123	9/28/2011	2622840	8/7/2013	2622840	7/19/2017	CONTINUOUS AUTOFOCUS BASED ON FACE DETECTION AND TRACKING
I0002-0361-FR-01	FR	In Force	11/647,123	9/28/2011	2622840	8/7/2013	2622840	7/19/2017	CONTINUOUS AUTOFOCUS BASED ON FACE DETECTION AND TRACKING
I0002-0361-GB-01	GB	In Force	11/647,123	9/28/2011	2622840	8/7/2013	2622840	7/19/2017	CONTINUOUS AUTOFOCUS BASED ON FACE DETECTION AND TRACKING
I0002-0361-JP-01	JP	In Force	2013-529676	9/28/2011	11-2013-542461	11/21/2013	6027005	10/21/2016	CONTINUOUS AUTOFOCUS BASED ON FACE DETECTION AND TRACKING
I0002-0361-KR-01	KR	Lapsed	10-2013-7010457	9/28/2011	13-0112036	10/11/2013	10-1783847	9/26/2017	CONTINUOUS AUTOFOCUS BASED ON FACE DETECTION AND TRACKING
I0002-0361-US-01	US	Lapsed	61/387,449	9/28/2010					CONTINUOUS AUTOFOCUS BASED ON FACE DETECTION AND TRACKING
I0002-0361-US-02	US	In Force	12/72/959,320	12/2/2010	20120075492	3/29/2012	8,970,770	3/3/2015	CONTINUOUS AUTOFOCUS BASED ON FACE DETECTION AND TRACKING
I0002-0361-WO-01	WO	Lapsed	PT/EP2011/066835	9/28/2010	WO2012041892A1	4/5/2012			OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
I0002-0363-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
I0002-0363-DE-01	DE	In Force	11/905,729	11/11/2011	2548154	1/23/2013	2548154	10/21/2015	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
I0002-0363-DE-02	DE	In Force	15189292.4	11/11/2011	3007104		602011039852.0	7/19/2017	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
I0002-0363-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
I0002-0363-EP-01	EP	Lapsed	11/905,729	11/11/2011	2548154	1/23/2013	2548154	7/19/2017	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
I0002-0363-EP-02	EP	Lapsed	15189292.4	11/11/2011	3007104	4/13/2016	3007104	7/19/2017	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
I0002-0363-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
I0002-0363-FR-01	FR	Lapsed	11/905,729	11/11/2011	2548154	1/23/2013	2548154	10/21/2015	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
I0002-0363-FR-02	FR	Lapsed	15189292.4	11/11/2011	3236391		3007104	7/19/2017	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
I0002-0363-FR-03	FR	In Force	17169218.9	11/11/2011	3236391	10/25/2017	3236391	10/9/2019	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
I0002-0363-GP-01	GP	Lapsed	11/905,729	11/11/2011	2548154	1/23/2013	2548154	10/21/2015	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
I0002-0363-GP-02	GP	Lapsed	15189292.4	11/11/2011	3007104		3007104	7/19/2017	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
I0002-0363-GP-03	GP	In Force	17169218.9	11/11/2011	3236391	10/25/2017	3236391	10/9/2019	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
I0002-0363-JP-01	JP	In Force	2013-538205	11/11/2011	2014050915	3/6/2014	5530568	4/25/2014	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
I0002-0363-JP-02	JP	In Force	2013-121658	11/11/2011	2013-242571	12/5/2013	6081297	1/27/2017	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
I0002-0363-KR-01	KR	In Force	10-2013-7006742	11/11/2011	10-2013-0139243	12/20/2013	10-1870853	6/19/2018	OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
I0002-0363-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
I0002-0363-US-01	US	In Force	12/944,701	11/11/2010	20120120283	5/17/2012	8,648,959	2/11/2014	RAPID AUTO-FOCUS USING CLASSIFIER CHAINS, MEMS AND/OR MULTIPLE OBJECT FOCUSING
I0002-0363-US-02	US	In Force	14/174,821	2/6/2014	20140193088	7/10/2014	8,797,448	8/5/2014	RAPID AUTO-FOCUS USING CLASSIFIER CHAINS, MEMS AND/OR MULTIPLE OBJECT FOCUSING
I0002-0363-WO-01	WO	Lapsed	PT/EP2011/069904	11/11/2011	WO2012062893A2	5/18/2012			OBJECT DETECTION AND RECOGNITION UNDER OUT OF FOCUS CONDITIONS
I0002-0368-CN-01	CN	In Force	201180038857.7	11/29/2011	103081455	5/1/2013	ZL201180038857.7	3/8/2017	PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
I0002-0368-CN-02	CN	In Force	2017010179765.X	11/29/2011	107105157	8/29/2017	ZL2017010179765.X	2/14/2020	PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
I0002-0368-DE-01	DE	In Force	11/799254.5	11/29/2011	2548368A1	1/23/2013	602011003163.5	9/18/2013	PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
I0002-0368-EP-01	EP	Lapsed	11/799254.5	11/29/2011	2548368A1	1/23/2013	EP254836881	9/18/2013	PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
I0002-0368-FR-01	FR	Lapsed	11/799254.5	11/29/2011	2548368A1	1/23/2013	2548368	9/18/2013	PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
I0002-0368-FR-02	FR	Lapsed	11/799254.5	11/29/2011	2548368A1	1/23/2013	2548368	9/18/2013	PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
I0002-0368-FR-03	FR	In Force	2013-540414	11/29/2011	2014506026	3/6/2014	5547854	5/23/2014	PORTRAIT IMAGE CREATION FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
I0002-0368-KR-01	KR	In Force	10-2013-7003151	11/29/2011	10-2014-0000192	1/2/2014	10-1845318	3/29/2018	PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
I0002-0368-US-01	US	Lapsed	61/417,737	11/29/2010					PORTRAIT IMAGE CREATION FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
I0002-0368-US-02	US	In Force	13/306,568	11/29/2011	20120133746	5/31/2012	9,118,833	8/25/2015	PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
I0002-0368-US-03	US	In Force	14/834,067	8/24/2015	20150365588	12/17/2015	9,456,128	9/27/2016	PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
I0002-0368-US-04	US	In Force	15/275,971	9/26/2016	20170111571	4/20/2017	10,110,804	10/23/2018	PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
I0002-0368-WO-01	WO	Lapsed	PT/EP2011/071233	11/29/2011	WO2012072606A1	6/7/2012			PORTRAIT IMAGE SYNTHESIS FROM MULTIPLE IMAGES CAPTURED ON A HANDHELD DEVICE
I0002-0369-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
I0002-0370-US-01	US	In Force	13/234,139	9/15/2011	20130070125	3/21/2013	8,493,459	7/23/2013	REGISTRATION OF DISTORTED IMAGES
I0002-0370-US-03	US	Lapsed	13/947,579	7/22/2013	20140066509	3/27/2014			REGISTRATION OF DISTORTED IMAGES
I0002-0371-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
I0002-0372-US-01	US	In Force	13/084,340	4/11/2011	20120249727	10/4/2012	8,896,703	11/25/2014	SUPERRESOLUTION ENHANCEMENT OF PERIPHERAL REGION'S NONLINEAR LENS GEOMETRIES
I0002-0377-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
I0002-0377-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

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I0002-0377-FR-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
I0002-0377-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
I0002-0377-US-01	US	Lapsed	61/444,565	2/18/2011					DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0377-US-02	US	In Force	13/984,487	2/17/2012	20130314568	11/28/2013	9,019,402	4/28/2015	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0377-US-03	US	Lapsed	14/698,742	4/28/2015					DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0377-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
I0002-0386-IE-01	IE	Lapsed	S2012/0509	11/27/2012	IE20120509A2				DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0386-US-01	US	Lapsed	61/748,070	12/31/2012					DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0386-US-02	US	In Force	14/646,368	11/21/2013	20150312478	10/29/2015	9,736,370	8/15/2017	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0386-US-03	US	In Force	15/672,743	8/9/2017	20180063430	3/1/2018	10,122,919	11/6/2018	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0386-US-04	US	In Force	16/176,538	10/31/2018	20190141239	5/9/2019	11,070,723	7/20/2021	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0386-US-05	US	Pending	17/356,365	6/23/2021	20210409598	12/30/2021			DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0386-WO-01	WO	Lapsed	PCT/EP2013/074423	11/21/2013	WO2014082921	6/5/2014			DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0395-DE-01	DE	Pending	112015001656.2	3/27/2015	DE 11 2015 001 656 15	12/29/2016			DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0395-IN-01	IN	Pending	201617036942	3/27/2015					DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0395-US-01	US	Lapsed	61/975,262	4/4/2014					DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0395-US-02	US	In Force	14/506,150	10/3/2014	20150286854	10/8/2015	9,239,957	1/19/2016	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0395-US-03	US	In Force	15/301,937	3/27/2015	20170186138	6/29/2017	10,452,910	10/22/2019	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0395-US-04	US	In Force	16/656,303	10/17/2019	20200050849	2/13/2020	10,769,435	9/8/2020	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0395-WO-01	WO	Lapsed	PCT/EP2015/056815	3/27/2015	WO2015150292	10/8/2015			DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0397-CN-01	CN	In Force	201580051252.X	7/13/2015	107111009	8/29/2017	41201580051252.X	11/8/2019	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0397-DE-01	DE	In Force	15741138.0	7/13/2015			3001867	6/21/2017	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0397-EP-01	EP	Lapsed	15741138.0	7/13/2015	3001867	4/6/2016	3001867	6/21/2017	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0397-FR-01	FR	In Force	15741138.0	7/13/2015			3001867	6/21/2017	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0397-GB-01	GB	In Force	15741138.0	7/13/2015			3001867	6/21/2017	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0397-KR-01	KR	In Force	10-2017-7004881	7/13/2015	10-2017-0031775	3/21/2017	10-1834393	2/26/2018	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0397-US-01	US	Lapsed	62/035,272	8/8/2014					DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
I0002-0397-US-02	US	Lapsed	62/126,270	2/27/2015					DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
2-0397-US-03	US	In Force	14/821,156	8/7/2015	20160044253	2/11/2016	10,051,208	8/14/2018	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
2-0397-US-04	US	In Force	14/962,909	12/8/2015	20160092731	3/31/2016	10,152,631	12/11/2018	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
2-0397-WO-01	WO	Lapsed	PCT/EP2015/065998	7/13/2015	WO2016020147	2/11/2016			DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
2-0401-US-01	US	In Force	10/608,887	6/26/2003	20060203107	9/14/2006	7,616,233	11/10/2009	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
2-0401-US-02	US	Lapsed	12/582,415	10/20/2009	20100039525	2/18/2010			DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
2-0401-US-03	US	Lapsed	12/582,642	10/20/2009	20100271499	10/28/2010			DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
2-0402-US-01	US	In Force	10/608,888	6/26/2003	20060203108	9/14/2006	7,362,368	4/22/2008	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
2-0402-US-02	US	Lapsed	11/941,956	11/18/2007	20080143854	6/19/2008			DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
2-0402-US-01	US	In Force	10/608,811	6/26/2003	20060203108	9/14/2006	7,471,846	12/30/2008	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
2-0403-US-02	US	In Force	11/773,855	7/5/2007	20090102949	4/23/2009	7,693,311	4/6/2010	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
2-0403-US-03	US	In Force	11/773,815	7/5/2007	20080043122	2/21/2008	7,702,136	4/20/2010	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
2-0403-US-04	US	In Force	12/753,910	4/5/2010	20100188530	7/29/2010	7,822,235	10/26/2010	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
2-0403-US-05	US	In Force	12/753,907	4/5/2010	20100188525	7/29/2010	7,822,234	10/26/2010	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
2-0403-US-06	US	In Force	12/892,937	9/29/2010	20110013044	1/20/2011	8,160,312	4/17/2012	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
2-0403-US-07	US	In Force	12/892,935	9/29/2010	20110025886	2/3/2011	8,155,401	4/10/2012	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
2-0404-US-01	US	Lapsed	10/608,772	6/26/2003			7,440,593	10/21/2008	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES
2-0404-US-02	US	In Force	11/024,046	12/27/2004	20060204110	9/14/2006	7,565,030	7/21/2009	DYNAMIC RANGE EXTENSION BY COMBINING DIFFERENTLY EXPOSED HAND-HELD DEVICE-ACQUIRED IMAGES

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10002-0404-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
10002-0404-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
10002-0404-US-05	US	In Force	12/482,305	6/10/2009	20090245693	10/1/2009	7,844,135	11/30/2010	DETECTING ORIENTATION OF DIGITAL IMAGES USING FACE DETECTION INFORMATION
10002-0404-US-06	US	In Force	12/629,450	12/2/2009	20100165150	7/1/2010	8,265,399	9/11/2012	METHOD OF IMPROVING ORIENTATION AND COLOR BALANCE OF DIGITAL IMAGES USING FACE DETECTION INFORMATION
10002-0404-US-07	US	In Force	12/637,664	12/14/2009	20100220899	9/2/2010	7,986,811	7/26/2011	DETECTING ORIENTATION OF DIGITAL IMAGES USING FACE DETECTION INFORMATION
10002-0404-US-08	US	In Force	12/949,751	11/18/2010	20110064329	3/17/2011	8,081,844	12/20/2011	METHOD OF IMPROVING ORIENTATION AND COLOR BALANCE OF DIGITAL IMAGES USING FACE DETECTION INFORMATION
10002-0404-US-09	US	In Force	13/118,572	5/30/2011	20120075504	3/29/2012	8,498,446	7/30/2013	DETECTING ORIENTATION OF DIGITAL IMAGES USING FACE DETECTION INFORMATION
10002-0404-US-10	US	In Force	13/330,480	12/19/2011	20120155709	6/21/2012	8,391,645	3/5/2013	DETECTING ORIENTATION OF DIGITAL IMAGES USING FACE DETECTION INFORMATION
10002-0404-US-11	US	Lapsed	13/778,128	2/27/2013	20130169821	7/4/2013			METHOD OF IMPROVING ORIENTATION AND COLOR BALANCE OF DIGITAL IMAGES USING FACE DETECTION INFORMATION
10002-0404-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
10002-0404-US-13	US	In Force	13/953,733	7/29/2013	20130314525	11/28/2013	9,008,374	4/14/2015	METHOD OF IMPROVING ORIENTATION AND COLOR BALANCE OF DIGITAL IMAGES USING FACE DETECTION INFORMATION
10002-0404-US-14	US	In Force	13/953,740	7/29/2013	20130315488	11/28/2013	8,761,449	6/24/2014	DIGITAL IMAGE ADJUSTABLE COMPRESSION AND RESOLUTION USING FACE DETECTION INFORMATION
10002-0407-US-01	US	In Force	10/608,819	6/26/2003	20060204057	9/14/2006	7,269,292	9/11/2007	DIGITAL IMAGE ADJUSTABLE COMPRESSION AND RESOLUTION USING FACE DETECTION INFORMATION
10002-0407-US-02	US	Lapsed	11/773,868	7/5/2007	20080019565	1/24/2008	7,466,866	12/16/2008	DIGITAL IMAGE ADJUSTABLE COMPRESSION AND RESOLUTION USING FACE DETECTION INFORMATION
10002-0407-US-03	US	In Force	12/331,334	12/9/2008	20090141144	6/4/2009	7,684,630	3/23/2010	DIGITAL IMAGE ADJUSTABLE COMPRESSION AND RESOLUTION USING FACE DETECTION INFORMATION
10002-0407-US-04	US	In Force	12/719,620	3/8/2010	20100165140	7/1/2010	8,326,066	12/4/2012	PERFECTING OF DIGITAL IMAGE RENDERING PARAMETERS WITHIN RENDERING DEVICES USING FACE DETECTION
10002-0408-US-01	US	In Force	10/608,824	6/26/2003	20060215924	9/28/2006	7,315,630	1/1/2008	CLASSIFICATION SYSTEM FOR CONSUMER DIGITAL IMAGES USING WORKFLOW AND USER INTERFACE MODULES, AND FACE DETECTION AND RECOGNITION
10002-0409-US-01	US	In Force	10/764,336	1/22/2004			7,558,408	7/7/2009	CLASSIFICATION DATABASE FOR CONSUMER DIGITAL IMAGES
10002-0410-US-01	US	In Force	10/764,335	1/22/2004			7,587,068	9/8/2009	CLASSIFICATION AND ORGANIZATION OF CONSUMER DIGITAL IMAGES USING WORKFLOW, AND FACE DETECTION AND RECOGNITION
10002-0410-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
10002-0410-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
10002-0410-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
10002-0410-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	10/764,274	1/22/2004			7,555,148	6/30/2009	CLASSIFICATION SYSTEM FOR CONSUMER DIGITAL IMAGES USING WORKFLOW, FACE DETECTION, NORMALIZATION, AND FACE RECOGNITION
2-0412-US-01	US	In Force	10/763,801	1/22/2004			7,564,994	7/21/2009	CLASSIFICATION SYSTEM FOR CONSUMER DIGITAL IMAGES USING AUTOMATIC WORKFLOW AND FACE DETECTION AND RECOGNITION
2-0412-US-02	US	In Force	12/506,124	7/20/2009	20100014721	1/21/2010	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	52005/0282	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
2-0421-US-03	US	Lapsed	12/558,227	9/11/2009	20100231727	9/16/2010			DIGITAL CAMERA WITH BUILT-IN LENS CALIBRATION TABLE
2-0416-US-04	US	Lapsed	12/710,271	2/22/2010	20100321537	12/23/2010	8,369,650	2/5/2013	DETERMINATION OF NEED TO SERVICE A CAMERA BASED ON DETECTION OF BLEMISHES IN DIGITAL IMAGES
2-0416-US-05	US	Lapsed	12/661,033	3/8/2010	20100259622	10/14/2010			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/EP2005/005033	9/30/2005	WO2005109853A1	11/17/2005			DIGITAL CAMERA WITH BUILT-IN LENS CALIBRATION TABLE
2-0421-US-01	US	Lapsed	10/986,562	11/10/2004	20060098891	5/11/2006	7,635,889	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	20110193989	8/11/2011	8,270,751	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

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10002-0421-US-01	US	Lapsed	13/948,127	7/22/2013	20140022403	1/23/2014			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	12/851,333	8/5/2010	20110058058	3/10/2011	8,005,268	8/23/2011	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	DIGITAL IMAGE ACQUISITION CONTROL AND CORRECTION METHOD AND APPARATUS
10002-0431-US-01	US	In Force	12/140,950	6/17/2008	20090003708	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	6/27/2017	MODIFICATION OF POST-VIEWING PARAMETERS FOR DIGITAL IMAGES USING IMAGE REGION OR FEATURE INFORMATION
10002-0431-US-03	US	Lapsed	15/633,328	6/26/2017	20180013950	1/11/2018			FEATURE INFORMATION
10002-0432-US-01	US	In Force	12/141,042	6/17/2008	20090003652	1/17/2009	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	20100060727	3/1/2010	8,509,496	8/13/2013	REAL-TIME FACE TRACKING WITH REFERENCE IMAGES
10002-0432-US-03	US	In Force	13/964,632	8/12/2013	20130329955	12/12/2013	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	20080317339	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 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	8,681,241	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	20150358535	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	201180051076.1	9/9/2011	103168315	6/19/2013	ZL201180051076.1	1/20/2016	STEREOSCOPIC (3D) PANORAMA CREATION ON HANDHELD DEVICE
10002-0438-CN-02	CN	Lapsed	11/2011103011.8	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-JP-01	JP	In Force	2013-527698	9/9/2011	2013-541884	11/14/2013	5969992	7/15/2016	STEREOSCOPIC (3D) PANORAMA CREATION ON HANDHELD DEVICE
10002-0438-KR-01	KR	In Force	10-2013-7008981	9/9/2011	20130103527	9/23/2013	10-1711036	2/22/2017	STEREOSCOPIC (3D) PANORAMA CREATION ON HANDHELD DEVICE
10002-0438-US-01	US	Lapsed	12/636,629	12/11/2009	20110141229	6/16/2011			PANORAMA IMAGING USING SUPER-RESOLUTION
10002-0438-US-02	US	In Force	12/879,003	9/9/2010	20110141227	6/16/2011	10,080,006	9/18/2018	STEREOSCOPIC (3D) PANORAMA CREATION ON HANDHELD DEVICE
10002-0438-US-03	US	Lapsed	16/132,044	9/14/2018	20190089941	3/21/2019	11,115,638	9/7/2021	STEREOSCOPIC (3D) PANORAMA CREATION ON HANDHELD DEVICE
10002-0438-WO-01	WO	Lapsed	PCT/JP2011/002715	9/9/2010	WO2012032412A2	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	8,947,501	2/3/2015	SCENE ENHANCEMENTS IN OFF-CENTER PERIPHERAL REGIONS FOR NONLINEAR LENS GEOMETRIES
10002-0449-US-01	US	In Force	13/234,146	9/15/2011	20130070126	3/21/2013	8,493,460	7/23/2013	REGISTRATION OF DIFFERENTIALLY 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	FACE AND OTHER OBJECT DETECTION AND TRACKING IN OFF-CENTER PERIPHERAL REGIONS FOR 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	16702939.6	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	15/053,863	2/25/2016	20160253559	9/1/2016	10,467,469	11/5/2019	OPTICAL SYSTEM FOR AN IMAGE ACQUISITION DEVICE
2-0452-WO-01	WO	Lapsed	PCT/EP2016/052395	2/4/2016	2016134942	9/1/2016			AN OPTICAL SYSTEM FOR AN IMAGE ACQUISITION DEVICE
2-0453-CH-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	2306153	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		2/14/2007	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/DLNP/2006	6/1/2005		8/31/2007			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-TR-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	PCT/GB2005/002156	6/1/2005	2005119581	12/15/2005			IDENTIFICATION OF IMAGE CHARACTERISTICS

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IO0002-0454-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
IO0002-0474-US-01	US	In Force	15/048,149	2/19/2017	20170244881	8/24/2017	9,743,001	8/22/2017	METHOD OF STABILIZING A SEQUENCE OF IMAGES
IO0002-0477-CN-01	CN	In Force	201780037476.4	6/2/2017	109477962	3/15/2019	ZL201780037476.4	1/21/2022	AN IRIS IMAGE ACQUISITION SYSTEM
IO0002-0477-DE-01	DE	In Force	17727577.3	6/2/2017	3430464	1/23/2019	3430464	1/1/2020	AN IRIS IMAGE ACQUISITION SYSTEM
IO0002-0477-EP-01	EP	Lapsed	17727577.3	6/2/2017	3430464	1/23/2019	3430464	1/1/2020	AN IRIS IMAGE ACQUISITION SYSTEM
IO0002-0477-FR-01	FR	In Force	17727577.3	6/2/2017	3430464	1/23/2019	3430464	1/1/2020	AN IRIS IMAGE ACQUISITION SYSTEM
IO0002-0477-GB-01	GB	In Force	17727577.3	6/2/2017	3430464	1/23/2019	3430464	1/1/2020	AN IRIS IMAGE ACQUISITION SYSTEM
IO0002-0477-IN-01	IN	Lapsed	201917001200	6/2/2017					IRIS IMAGE ACQUISITION SYSTEM
IO0002-0477-KR-01	KR	Lapsed	10-2019-7001465	6/2/2017					AN IRIS IMAGE ACQUISITION SYSTEM
IO0002-0477-NL-01	NL	In Force	17727577.3	6/2/2017	3430464	1/23/2019	3430464	1/1/2020	AN IRIS IMAGE ACQUISITION SYSTEM
IO0002-0477-US-01	US	In Force	15/186,283	6/17/2016	20170366761	12/21/2017	10,212,366	2/19/2019	IRIS IMAGE ACQUISITION SYSTEM
IO0002-0477-WO-01	WO	Lapsed	PC1/EP2017/063435	6/2/2017	2017215952	12/21/2017			IRIS IMAGE ACQUISITION SYSTEM
IO0002-0478-US-01	US	Lapsed	62/249,798	11/2/2015	20170124394	5/4/2017	10,176,377	1/8/2019	IRIS LIVENESS DETECTION FOR NEXT GENERATION SMARTPHONE BIOMETRICS
IO0002-0478-US-02	US	In Force	15/340,926	11/1/2016	20190138807	5/9/2019	10810423	10/20/2020	IRIS LIVENESS DETECTION FOR MOBILE DEVICES
IO0002-0478-US-03	US	In Force	16/240,120	1/4/2019	20190138807	5/9/2019	10810423	10/20/2020	IRIS LIVENESS DETECTION FOR MOBILE DEVICES
IO0002-0478-US-04	US	In Force	17/073,247	10/16/2020	20210034864	2/4/2021	11,288,504	3/29/2022	IRIS LIVENESS DETECTION FOR MOBILE DEVICES
IO0002-0478-US-05	US	Pending	17/704,822	3/25/2022					IRIS LIVENESS DETECTION FOR MOBILE DEVICES
IO0002-0526-US-01	US	In Force	12/774,486	5/5/2010	20110273593	11/10/2011	8,482,636	7/9/2013	DIGITAL ZOOM ON BAYER
IO0002-0526-WO-01	WO	Lapsed	PC1/EP2011/057154	5/5/2010	WO2011138376A1	5/4/2011			DIGITAL ZOOM ON BAYER
IO0002-0548-US-01	US	In Force	12/905,367	10/15/2010	20120093419	4/19/2012	8,687,894	4/1/2014	CONTINUOUS EDGE AND DETAIL MAPPING USING A WEIGHTED MONOTONY MEASUREMENT
IO0002-0548-WO-01	WO	Lapsed	PC1/EP2011/067942	10/15/2010	WO2012049275				CONTINUOUS EDGE AND DETAIL MAPPING USING A WEIGHTED MONOTONY MEASUREMENT
IO0006-0001-CN-01	CN	In Force	200980117890.1	5/20/2009	102037717	4/27/2011	ZL200980117890.1	11/6/2013	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
IO0006-0001-CN-02	CN	In Force	201310438869.X	5/20/2009	103501416	1/8/2014	ZL201310438869.X	4/12/2017	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
IO0006-0001-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
IO0006-0001-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
IO0006-0001-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
IO0006-0001-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
IO0006-0001-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	2011510681	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	5989076	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

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10006-0001-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
10006-0001-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
10006-0001-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
10006-0001-US-05	US	In Force	14/447,494	7/30/2014	20140340539	11/20/2014	9,049,390	6/2/2015	CAPTURING AND PROCESSING OF IMAGES CAPTURED BY ARRAYS INCLUDING POLYCHROMATIC CAMERAS
10006-0001-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
10006-0001-US-07	US	In Force	14/459,293	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
10006-0001-US-08	US	In Force	14/459,296	8/13/2014	20140354844	12/4/2014	8,885,059	11/11/2014	SYSTEMS AND METHODS FOR MEASURING DEPTH USING IMAGES CAPTURED BY CAMERA ARRAYS
10006-0001-US-09	US	In Force	14/475,449	9/2/2014	20140368683	12/18/2014	9,060,124	6/16/2015	CAPTURING AND PROCESSING OF IMAGES USING NON-MONOLITHIC CAMERA ARRAYS
10006-0001-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 NEAR-IR IMAGES INCLUDING OCCLUSIONS USING CAMERA ARRAYS INCORPORATING NEAR-IR LIGHT SOURCES
10006-0001-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 IMAGES CAPTURED BY CAMERA ARRAYS INCLUDING HETEROGENEOUS OPTICS
10006-0001-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 HIGH DYNAMIC RANGE IMAGES USING CAMERA ARRAYS
10006-0001-US-13	US	In Force	14/497,159	9/25/2014	20150009362	1/8/2015	9,060,121	6/16/2015	CAPTURING AND PROCESSING OF IMAGES CAPTURED BY CAMERA ARRAYS INCLUDING CAMERAS DEDICATED TO SAMPLING LUMA AND CAMERAS DEDICATED TO SAMPLING CHROMA
10006-0001-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
10006-0001-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
10006-0001-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
10006-0001-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
10006-0001-US-18	US	In Force	15/095,930	4/11/2016	20160227195	8/4/2016	9,485,496	11/1/2016	SYSTEMS AND METHODS FOR MEASURING DEPTH USING IMAGES CAPTURED BY A CAMERA ARRAY INCLUDING CAMERAS SURROUNDING A CENTRAL CAMERA
10006-0001-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
10006-0001-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
10006-0002-CA-01	CA	Lapsed	2821965	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	2013045703	12/14/2011			191151	3/3/2015	SYSTEMS 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 IMAGES CAPTURED BY AN ARRAY OF INDEPENDENTLY CONTROLLABLE IMAGERS
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 GEOMETRICALLY REGISTERED IMAGES
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 IMAGES CAPTURED BY A PLURALITY OF IMAGERS
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 IMAGES CAPTURED BY AN ARRAY OF INDEPENDENTLY CONTROLLABLE IMAGERS
6-0002-US-05	US	In Force	15/170,788	6/1/2016	20170053382	2/23/2017	10,366,472	7/30/2019	AN ARRAY OF INDEPENDENTLY CONTROLLABLE IMAGERS
6-0002-US-06	US	In Force	16/521,365	7/24/2019	20190347768	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

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10006-0002-US-07	US	Pending	17/098,432	11/15/2020	20210133927	5/6/2021			SYSTEMS AND METHODS FOR SYNTHESIZING HIGH RESOLUTION IMAGES USING IMAGES CAPTURED BY AN ARRAY OF INDEPENDENTLY CONTROLLABLE IMAGERS
10006-0003-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
10006-0003-TW-01	TW	In Force	99147177	12/31/2010	201228382	5/21/2016	1535292	5/21/2016	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
10006-0003-US-03	US	In Force	12/952,106	11/22/2010	20110122308	5/26/2011	8,514,491	8/20/2013	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
10006-0003-US-04	US	In Force	13/948,054	7/22/2013	20130308197	11/21/2013	8,861,089	10/14/2014	CAPTURING AND PROCESSING OF IMAGES INCLUDING OCCLUSIONS CAPTURED BY HETEROGENEOUS CAMERA ARRAYS
10006-0003-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
10006-0003-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
10006-0003-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
10006-0003-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 CAPTURED BY CAMERA ARRAYS INCORPORATING CAMERAS WITH TELEPHOTO AND CONVENTIONAL LENSES TO GENERATE DEPT MAPS
10006-0004-US-01	US	In Force	12/952,134	11/22/2010	20110080487	4/7/2011	8,866,920	10/21/2014	CAPTURING AND PROCESSING OF IMAGES USING MONOLITHIC CAMERA ARRAY WITH HETEROGENEOUS IMAGERS
10006-0004-US-02	US	In Force	14/459,276	8/13/2014	20140354843	12/4/2014	9,049,411	6/2/2015	CAMERA ARRAYS INCORPORATING 3 X 3 IMAGER CONFIGURATIONS
10006-0004-US-03	US	In Force	14/459,280	8/13/2014	20140347509	11/27/2014	9,124,815	9/1/2015	CAPTURING AND PROCESSING OF IMAGES INCLUDING OCCLUSIONS CAPTURED BY ARRAYS OF LUMA AND CHROMA CAMERAS
10006-0004-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 GENERATING DEPTH MAPS USING A SET OF IMAGES CONTAINING A BASELINE IMAGE
10006-0004-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
10006-0004-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
10006-0004-US-07	US	In Force	14/459,288	8/13/2014	20140354773	12/4/2014	9,049,381	6/2/2015	SYSTEMS AND METHODS FOR NORMALIZING IMAGE DATA CAPTURED BY CAMERA ARRAYS
10006-0004-US-08	US	In Force	14/704,920	5/5/2015	20150234151	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
10006-0004-US-09	US	In Force	14/943,009	11/16/2015	20160269650	9/15/2016	9,749,547	8/29/2017	CAPTURING AND PROCESSING OF IMAGES USING CAMERA ARRAY INCORPORATING BAYER CAMERAS HAVING DIFFERENT FIELDS OF VIEW
10006-0004-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 CAPTURED BY AN IMAGE SENSOR BY A LENS STACK ARRAY
6-0004-US-11	US	In Force	16/199,566	11/26/2018	20190109998	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	12/10/2020	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	2013-522681	6/13/2013			FABRICATION PROCESS FOR MASTERING IMAGE LENS ARRAYS
6-0005-KR-01	KR	Lapsed	10-2012-7027121	3/17/2011	10-2013-0004505	1/10/2013	184118	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	13/050,429	3/17/2011	20110241234	10/6/2011	8,231,814	7/31/2012	FABRICATION PROCESS FOR MASTERING IMAGING LENS ARRAYS
6-0006-CN-01	CN	In Force	201280029399.5	5/11/2012	103765864	4/30/2014	ZL201280029399.5	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	ZL201710422675.9	2/11/2020	SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING ARRAY CAMERA IMAGE DATA
6-0006-DE-01	DE	In Force	12782935.6	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	12782935.6	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	12782935.6	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	12782935.6	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-01	JP	Lapsed	2014510522	5/11/2012	2014-519741	8/14/2014			SYSTEMS AND METHODS FOR TRANSMITTING ARRAY CAMERA DATA
6-0006-KR-01	KR	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-01	NL	In Force	12782935.6	5/11/2012	2708019	3/19/2014	2708019	10/16/2019	SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING ARRAY CAMERA IMAGE DATA
6-0006-US-02	US	In Force	13/470,252	5/11/2012	20120287291	11/15/2012	8,305,456	11/6/2012	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

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I0006-0006-US-05	US	In Force	14/936,199	11/9/2015	20160259626	9/15/2016	9,866,739	1/9/2018	SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING ARRAY CAMERA IMAGE DATA
I0006-0006-US-06	US	In Force	15/864,429	1/8/2018	20180131852	5/10/2018	10,218,889	2/26/2019	SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING ARRAY CAMERA IMAGE DATA
I0006-0006-US-07	US	In Force	16/271,709	2/8/2018	20190174040	6/6/2019	10,742,861	8/11/2020	SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING ARRAY CAMERA IMAGE DATA
I0006-0007-US-02	US	In Force	13/106,804	5/12/2011	20110279721	11/17/2011	8,928,793	1/6/2015	IMAGER ARRAY INTERFACES
I0006-0007-US-03	US	In Force	14/880,907	10/12/2015	20160269627	9/15/2016	9,936,148	4/3/2018	IMAGER ARRAY INTERFACES
I0006-0007-US-04	US	In Force	15/943,512	4/2/2018	20180227511	8/9/2018	10,455,168	10/22/2019	IMAGER ARRAY INTERFACES
I0006-0008-EP-01	EP	Lapsed	12804,660	6/25/2012	2726930	5/7/2014			OPTICAL ARRANGEMENTS FOR USE WITH AN ARRAY CAMERA
I0006-0008-JP-01	JP	Lapsed	2014518889	6/25/2012	2014-521117	8/25/2014			OPTICAL ARRANGEMENTS FOR USE WITH AN ARRAY CAMERA
I0006-0008-KR-01	KR	Lapsed	10-2013-7035076	6/25/2012					OPTICAL ARRANGEMENTS FOR USE WITH AN ARRAY CAMERA
I0006-0008-SG-01	SG	In Force	2013093141	6/25/2012			2013093141	12/2/2014	OPTICAL ARRANGEMENTS FOR USE WITH AN ARRAY CAMERA
I0006-0008-US-02	US	Lapsed	13/536,520	6/28/2012	20130003184	1/3/2013	8,804,255	8/12/2014	OPTICAL ARRANGEMENTS FOR USE WITH AN ARRAY CAMERA
I0006-0008-US-03	US	Lapsed	13/832,120	3/15/2013	20130265459	10/10/2013			OPTICAL ARRANGEMENTS FOR USE WITH AN ARRAY CAMERA
I0006-0008-US-04	US	In Force	14/281,534	5/19/2014	20140347748	11/27/2014	9,128,228	9/8/2015	OPTICAL ARRANGEMENTS FOR USE WITH AN ARRAY CAMERA
I0006-0008-US-05	US	Lapsed	14/705,919	5/6/2015	20150244934	8/27/2015	9,578,237	2/21/2017	ARRAY CAMERAS INCORPORATING OPTICS WITH MODULATION TRANSFER FUNCTIONS GREATER THAN SENNOR NYQUIST FREQUENCY FOR CAPTURE OF IMAGES USED IN SUPER-RESOLUTION PROCESSING
I0006-0008-US-06	US	Lapsed	14/705,925	5/6/2015	20150296137	10/15/2015	9,516,222	12/6/2016	ARRAY CAMERAS INCORPORATING MONOLITHIC ARRAY CAMERA MODULES WITH HIGH MITF LENS STACKS FOR CAPTURE OF IMAGES USED IN SUPER-RESOLUTION PROCESSING
I0006-0009-DE-01	DE	In Force	13/751,714.0	2/21/2013	2817955	12/31/2014	2817955	4/11/2018	SYSTEMS AND METHODS FOR THE MANIPULATION OF CAPTURED LIGHT FIELD IMAGE DATA
I0006-0009-EP-01	EP	Lapsed	13/751,714.0	2/21/2013	2817955	12/31/2014	2817955	4/11/2018	SYSTEMS AND METHODS FOR THE MANIPULATION OF CAPTURED LIGHT FIELD IMAGE DATA
I0006-0009-FR-01	FR	Lapsed	13/751,714.0	2/21/2013	2817955	12/31/2014	2817955	4/11/2018	SYSTEMS AND METHODS FOR THE MANIPULATION OF CAPTURED LIGHT FIELD IMAGE DATA
I0006-0009-GB-01	GB	Lapsed	13/751,714.0	2/21/2013	2817955	12/31/2014	2817955	4/11/2018	SYSTEMS AND METHODS FOR THE MANIPULATION OF CAPTURED LIGHT FIELD IMAGE DATA
I0006-0009-NL-01	NL	In Force	13/751,714.0	2/21/2013	2817955	12/31/2014	2817955	4/11/2018	SYSTEMS AND METHODS FOR THE MANIPULATION OF CAPTURED LIGHT FIELD IMAGE DATA
I0006-0009-US-02	US	In Force	13/773,284	2/21/2013	20130215108	8/22/2013	9,412,206	8/9/2016	SYSTEMS AND METHODS FOR THE MANIPULATION OF CAPTURED LIGHT FIELD IMAGE DATA
I0006-0009-US-03	US	In Force	14/705,914	5/6/2015	20150235476	8/20/2015	9,754,422	9/5/2017	SYSTEMS AND METHOD FOR PERFORMING DEPTH BASED IMAGE EDITING
I0006-0009-US-04	US	In Force	15/694,700	9/1/2017	20170365104	12/21/2017	10,311,649	6/4/2019	SYSTEMS AND METHOD FOR PERFORMING DEPTH BASED IMAGE EDITING
I0006-0010-US-02	US	In Force	14/028,278	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
I0006-0011-US-02	US	In Force	14/204,990	3/11/2014			9,521,416	12/13/2016	SYSTEMS AND METHODS FOR IMAGE DATA COMPRESSION
I0006-0012-CN-01	CN	In Force	201380029203.7	5/1/2013	104335246	2/4/2015	ZL201380029203.7	9/4/2018	CAMERA MODULES PATTERNED WITH PI FILTER GROUPS
I0006-0012-EP-01	EP	Lapsed	13/785,220.8	5/1/2013	2845167	3/11/2015			CAMERA MODULES PATTERNED WITH PI FILTER GROUPS
I0006-0012-JP-01	JP	Lapsed	2015510443	5/1/2013	2015-521411	7/27/2015			CAMERA MODULES PATTERNED WITH PI FILTER GROUPS
I0006-0012-US-02	US	In Force	13/875,248	5/1/2013	20130293760	11/7/2013	9,210,392	12/8/2015	CAMERA MODULES PATTERNED WITH PI FILTER GROUPS
I0006-0012-US-03	US	In Force	14/952,195	11/25/2015	20160165147	6/9/2016	9,706,132	7/11/2017	CAMERA MODULES PATTERNED WITH PI FILTER GROUPS
I0006-0013-US-01	US	In Force	14/195,675	3/3/2014					PASSIVE ALIGNMENT OF ARRAY CAMERA MODULES CONSTRUCTED FROM LENS STACK ARRAYS AND SENSORS BASED UPON ALIGNMENT INFORMATION OBTAINED DURING MANUFACTURE OF ARRAY CAMERA MODULES USING AN ACTIVE ALIGNMENT PROCESS
I0006-0014-US-03	US	In Force	14/079,510	11/13/2013	20140132810	5/15/2014	9,638,883	5/2/2017	SENSORS BASED UPON ALIGNMENT INFORMATION OBTAINED DURING MANUFACTURE OF ARRAY CAMERA MODULES USING AN ACTIVE ALIGNMENT PROCESS
6-0014-US-04	US	In Force	14/855,715	9/16/2015	20160249001	8/25/2016	9,749,568	9/22/2015	SYSTEMS AND METHODS FOR ARRAY CAMERA FOCAL PLANE CONTROL
6-0015-US-02	US	In Force	14/200,629	3/7/2014			9,445,003	8/29/2017	SYSTEMS AND METHODS FOR ARRAY CAMERA FOCAL PLANE CONTROL
6-0015-US-03	US	In Force	15/258,947	9/7/2016	20170070673	3/9/2017	9,955,070	9/13/2016	SYSTEMS AND METHODS FOR SYNTHESIZING HIGH RESOLUTION IMAGES USING IMAGE DECONVOLUTION BASED ON MOTION AND DEPTH INFORMATION
6-0015-US-04	US	In Force	15/960,168	4/23/2018	20180302554	10/18/2018	10,542,208	4/24/2018	SYSTEMS AND METHODS FOR SYNTHESIZING HIGH RESOLUTION IMAGES USING IMAGE DECONVOLUTION BASED ON MOTION AND DEPTH INFORMATION
6-0016-US-02	US	Lapsed	14/199,977	3/6/2014	20140267286	9/18/2014		1/21/2020	SYSTEMS AND METHODS FOR PROVIDING AN ARRAY PROJECTOR
6-0016-US-03	US	Lapsed	15/287,602	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	ZL201380040238.0	10/30/2018	SYSTEMS AND METHODS FOR DETECTING DEFECTIVE CAMERA ARRAYS, OPTIC ARRAYS AND SENSORS
6-0017-EP-01	EP	Lapsed	13810,229.8	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	13/931,724	6/28/2013	20140002675	1/2/2014	9,100,635	8/4/2015	SYSTEMS AND METHODS FOR DETECTING DEFECTIVE CAMERA ARRAYS AND OPTIC ARRAYS
6-0017-US-03	US	In Force	14/805,412	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	15/797,126	10/30/2017	20180109782	4/19/2018	10,334,241	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 ARRAY CAMERAS
6-0018-CA-01	CA	Lapsed	2881131	8/21/2013					SYSTEMS AND METHODS FOR PARALLAX DETECTION AND CORRECTION IN IMAGES CAPTURED USING ARRAY CAMERAS
6-0018-CN-01	CN	In Force	201380048735.5	8/21/2013	104662589	5/27/2015	ZL201380048735.5	8/4/2017	SYSTEMS AND METHODS FOR PARALLAX DETECTION AND CORRECTION IN IMAGES CAPTURED USING ARRAY CAMERAS

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I0006-0018-CN-02	CN	In Force	201710550511.4	8/21/2013	107346061	11/14/2017		4/24/2020	SYSTEMS AND METHODS FOR PARALLAX DETECTION AND CORRECTION IN IMAGES CAPTURED USING ARRAY CAMERAS
I0006-0018-DE-01	DE	In Force	13830945.5	8/21/2013	2888720	7/1/2015	602013076353.4 (EP2888720)	3/17/2021	SYSTEM AND METHOD FOR DEPTH ESTIMATION FROM IMAGES CAPTURED USING ARRAY CAMERAS
I0006-0018-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
I0006-0018-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
I0006-0018-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
I0006-0018-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
I0006-0018-KR-01	KR	In Force	10-2015-7006433	8/21/2013	10-2015-0046113	4/29/2015	10-2111181	5/8/2020	SYSTEMS AND METHODS FOR PARALLAX DETECTION AND CORRECTION IN IMAGES CAPTURED USING ARRAY CAMERAS
I0006-0018-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
I0006-0018-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
I0006-0018-US-03	US	In Force	13/972,881	8/21/2013			8,619,082	12/31/2013	SYSTEMS AND METHODS FOR PARALLAX DETECTION AND CORRECTION IN IMAGES CAPTURED USING ARRAY CAMERAS THAT CONTAIN OCCLUSIONS USING SUBSETS OF IMAGES TO PERFORM DEPTH ESTIMATION
I0006-0018-US-04	US	In Force	14/144,458	12/30/2013			8,780,113	7/15/2014	SYSTEMS AND METHODS FOR PARALLAX DETECTION AND CORRECTION IN IMAGES CAPTURED USING SPECTRAL CHANNELS
I0006-0018-US-05	US	In Force	14/329,754	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
I0006-0018-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
I0006-0018-US-07	US	In Force	14/526,377	10/28/2014	20150042766	2/12/2015	9,123,118	9/1/2015	SYSTEM AND METHODS FOR MEASURING DEPTH USING AN ARRAY CAMERA EMPLOYING A BAYER FILTER
I0006-0018-US-08	US	In Force	14/526,392	10/28/2014	20150049916	2/19/2015	9,235,900	1/12/2016	SYSTEMS AND METHODS FOR ESTIMATING DEPTH AND VISIBILITY FROM A REFERENCE VIEWPOINT FOR PIXELS IN A SET OF IMAGES CAPTURED FROM DIFFERENT VIEWPOINTS
I0006-0018-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
I0006-0018-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
I0006-0018-US-11	US	In Force	14/988,680	1/5/2016	20160267672	9/15/2016	9,858,673	1/2/2018	SYSTEMS AND METHODS FOR ESTIMATING DEPTH AND VISIBILITY FROM A REFERENCE VIEWPOINT FOR PIXELS IN A SET OF IMAGES CAPTURED FROM DIFFERENT VIEWPOINTS
I0006-0018-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
I0006-0018-US-13	US	In Force	16/537,369	8/9/2019	20190362515	11/28/2019	10,909,707	2/2/2021	SYSTEMS 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	SYSTEMS AND METHODS FOR GENERATING COMPRESSED LIGHT FIELD REPRESENTATION DATA USING CAPTURED LIGHT FIELDS, ARRAY GEOMETRY, AND PARALLAX INFORMATION
6-0019-US-04	US	Lapsed	15/253,605	8/31/2016	20170054901	2/23/2017			SYSTEMS AND METHODS FOR GENERATING COMPRESSED LIGHT FIELD REPRESENTATION DATA USING CAPTURED LIGHT FIELDS, ARRAY GEOMETRY, AND PARALLAX INFORMATION
6-0019-US-05	US	In Force	15/599,900	5/19/2017	20170257562	9/7/2017	10,009,538	6/26/2018	SYSTEMS AND METHODS FOR GENERATING COMPRESSED LIGHT FIELD REPRESENTATION DATA USING CAPTURED LIGHT FIELDS, ARRAY GEOMETRY, AND PARALLAX INFORMATION
6-0020-US-02	US	In Force	14/188,521	2/24/2014	20140240528	8/28/2014	9,274,512	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	20140240529	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	20160269651	9/15/2016	9,743,051	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	20170085845	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	3/1/2013	20140253738	9/11/2014	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	9/17/2015	SYSTEM AND METHODS FOR CALIBRATION OF AN ARRAY CAMERA
6-0021-US-03	US	In Force	14/841,651	8/31/2015	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	15/987,768	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	16/290,672	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	17/653,267	3/2/2022	20220259990	7/28/2022			SYSTEM AND METHODS FOR CALIBRATION OF AN ARRAY CAMERA
6-0022-US-02	US	In Force	14/776,509	3/11/2014	20160037097	2/4/2016	9,885,194	2/6/2018	ARRAY CAMERA ARCHITECTURE IMPLEMENTING QUANTUM FILM 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

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10006-0024-US-02	US	In Force	14/776,553	3/12/2014	20160044252	2/11/2016	9,578,259	2/21/2017	SYSTEMS AND METHODS FOR REDUCING MOTION BLUR IN IMAGES OR VIDEO IN ULTRA LOW LIGHT WITH ARRAY CAMERAS
10006-0024-US-03	US	Lapsed	15/438,542	2/21/2017	20170163862	6/8/2017	10,091,405	10/2/2018	SYSTEMS AND METHODS FOR REDUCING MOTION BLUR IN IMAGES OR VIDEO IN ULTRA LOW LIGHT WITH ARRAY CAMERAS
10006-0024-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
10006-0025-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
10006-0026-US-03	US	In Force	14/773,742	3/7/2014	20160057332	2/25/2016	9,774,789	9/26/2017	SYSTEMS AND METHODS FOR HIGH DYNAMIC RANGE IMAGING USING ARRAY CAMERAS
10006-0026-US-04	US	Lapsed	15/713,482	9/22/2017	20180013945	1/11/2018			SYSTEMS AND METHODS FOR HIGH DYNAMIC RANGE IMAGING USING ARRAY CAMERAS
10006-0027-US-02	US	In Force	14/145,734	12/31/2013	20140267762	9/18/2014	9,497,429	11/15/2016	EXTENDED COLOR PROCESSING ON PELICAN ARRAY CAMERAS
10006-0027-US-04	US	In Force	15/287,626	10/6/2016	20170099465	4/6/2017	10,182,216	1/15/2019	EXTENDED COLOR PROCESSING ON PELICAN ARRAY CAMERAS
10006-0027-US-05	US	In Force	16/246,100	1/11/2019	20190215496	7/11/2019	10,638,099	4/28/2020	SYSTEMS AND METHODS FOR STEREO IMAGING WITH CAMERA ARRAYS
10006-0028-EP-01	EP	Pending	14/763,087.5	3/17/2014	2973476	1/20/2016			SYSTEMS AND METHODS FOR STEREO IMAGING WITH CAMERA ARRAYS
10006-0028-IP-01	JP	Lapsed	2016-503445	3/17/2014	2016-524125	8/12/2016			SYSTEMS AND METHODS FOR STEREO IMAGING WITH CAMERA ARRAYS
10006-0028-US-02	US	In Force	14/216,968	3/17/2014	20140267633	9/18/2014	9,438,888	9/6/2016	SYSTEMS AND METHODS FOR STEREO IMAGING WITH CAMERA ARRAYS
10006-0028-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
10006-0028-US-04	US	In Force	14/705,903	5/6/2015	20150237329	8/20/2015	9,602,805	3/21/2017	SYSTEMS AND METHODS FOR ESTIMATING DEPTH USING AD HOC STEREO ARRAY CAMERAS
10006-0028-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
10006-0029-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
10006-0029-US-03	US	In Force	15/376,529	12/12/2016	20170094243	3/30/2017	9,800,856	10/24/2017	SYSTEM AND METHODS FOR CALIBRATION OF AN ARRAY CAMERA
10006-0030-US-02	US	In Force	14/203,308	3/10/2014	20140285675	9/25/2014	9,124,831	9/1/2015	SYSTEM AND METHODS FOR CALIBRATION OF AN ARRAY CAMERA
10006-0030-US-03	US	In Force	14/841,694	8/31/2015	20160163051	6/9/2016	9,741,118	8/22/2017	SYSTEM AND METHODS FOR CALIBRATION OF AN ARRAY CAMERA
10006-0030-US-04	US	In Force	15/682,064	8/21/2017	20180040135	2/8/2018	10,127,682	11/13/2018	SYSTEM AND METHODS FOR CALIBRATION OF AN ARRAY CAMERA
10006-0031-US-02	US	In Force	14/213,697	3/14/2014	20140267829	9/18/2014	9,100,586	8/4/2015	SYSTEMS AND METHODS FOR PHOTOMETRIC NORMALIZATION IN ARRAY CAMERAS
10006-0031-US-03	US	In Force	14/814,291	7/30/2015	20160198096	7/7/2016	9,787,911	10/10/2017	SYSTEMS AND METHODS FOR PHOTOMETRIC NORMALIZATION IN ARRAY CAMERAS
10006-0031-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
10006-0032-US-01	US	In Force	13/802,507	3/13/2013	20140267890	9/18/2014	9,106,784	8/11/2015	SYSTEMS AND METHODS FOR CONTROLLING ALIASING IN IMAGES CAPTURED BY AN ARRAY CAMERA FOR USE IN SUPER-RESOLUTION PROCESSING
10006-0032-US-02	US	In Force	14/814,297	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
10006-0033-DE-01	DE	In Force	14865463.5	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	14865463.5	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	14865463.5	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	14865463.5	11/26/2014	3075140	10/5/2016	3075140	6/13/2018	ARRAY CAMERA CONFIGURATIONS INCORPORATING MULTIPLE CONSTITUENT ARRAY CAMERAS
6-0033-NL-01	NL	In Force	14865463.5	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 AND CONSTITUENT 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 AND CONSTITUENT 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 AND CONSTITUENT 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	PT/US2014/067740	11/26/2014	2015/081279	6/4/2015			SYSTEMS AND METHODS FOR DEPTH-ASSISTED PERSPECTIVE DISTORTION CORRECTION
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	20180240265	8/23/2018	10,540,806	1/21/2020	SYSTEMS AND METHODS FOR DEPTH-ASSISTED PERSPECTIVE DISTORTION CORRECTION
6-0034-WO-01	WO	Lapsed	PT/US2014/058142	9/29/2014	2015/048694	4/2/2015			METHODS OF MANUFACTURING ARRAY CAMERA MODULES INCORPORATING INDEPENDENTLY ALIGNED LENS STACKS
6-0035-EP-01	EP	Lapsed	14860103.2	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	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

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10006-0035-US-05	US	In Force	14/536,554	11/7/2014	20150124113	5/7/2015	9,426,343	8/23/2016	ARRAY CAMERAS INCORPORATING INDEPENDENTLY ALIGNED LENS STACKS
10006-0035-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
10006-0035-WO-01	WO	Lapsed	PCT/US2014/064693	11/7/2014	2015/070105	5/14/2015			METHODS OF MANUFACTURING ARRAY CAMERA MODULES INCORPORATING INDEPENDENTLY ALIGNED LENS STACKS
10006-0036-US-02	US	In Force	14/547,048	11/18/2014	20150138346	5/21/2015	10,119,808	11/6/2018	SYSTEMS AND METHODS FOR ESTIMATING DEPTH FROM PROJECTED TEXTURE USING CAMERA ARRAYS
10006-0036-US-03	US	In Force	16/171,191	10/31/2018	20190063905	2/28/2019	10,767,981	9/8/2020	SYSTEMS AND METHODS FOR ESTIMATING DEPTH FROM PROJECTED TEXTURE USING CAMERA ARRAYS
10006-0036-US-04	US	Pending	17/013,783	9/7/2020	20210063141	3/4/2021			SYSTEMS AND METHODS FOR ESTIMATING DEPTH FROM PROJECTED TEXTURE USING CAMERA ARRAYS
10006-0036-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
10006-0037-US-02	US	In Force	14/484,154	9/11/2014	20150288861	10/8/2015	9,247,117	1/26/2016	SYSTEMS AND METHODS FOR CORRECTING FOR WARPAGE OF A SENSOR ARRAY IN AN ARRAY CAMERA MODULE BY INTRODUCING WARPAGE INTO A FOCAL PLANE OF A LENS STACK ARRAY
10006-0038-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
10006-0038-US-03	US	In Force	16/148,816	10/1/2018	20190037150	1/31/2019	10,574,905	2/25/2020	SYSTEM AND METHODS FOR DEPTH REGULARIZATION AND SEMIAUTOMATIC INTERACTIVE MATTING USING RGB-D IMAGES
10006-0038-US-04	US	Lapsed	16/798,203	2/21/2020					SYSTEM AND METHODS FOR DEPTH REGULARIZATION AND SEMIAUTOMATIC INTERACTIVE MATTING USING RGB-D IMAGES
10006-0038-WO-01	WO	Lapsed	PCT/US2015/019529	3/9/2015	2015/134996	9/11/2015			SYSTEM AND METHODS FOR DEPTH REGULARIZATION AND SEMIAUTOMATIC INTERACTIVE MATTING USING RGB-D IMAGES
10006-0039-US-01	US	In Force	14/593,369	1/9/2015	20150161798	6/11/2015	9,633,442	4/25/2017	SYSTEM AND METHODS FOR DEPTH REGULARIZATION AND SEMIAUTOMATIC INTERACTIVE MATTING USING RGB-D IMAGES
10006-0039-US-02	US	In Force	14/724,447	5/28/2015	20150264337	9/17/2015	10,122,993	11/6/2018	ARRAY CAMERAS INCLUDING AN ARRAY CAMERA MODULE AUGMENTED WITH A SEPARATE CAMERA AUTOFOCUS SYSTEM FOR A CONVENTIONAL CAMERA THAT USES DEPTH INFORMATION FROM AN ARRAY CAMERA
10006-0039-US-03	US	In Force	16/179,796	11/2/2018	20190089947	3/21/2019	10,674,138	6/2/2020	ARRAY CAMERA AUTOFOCUS SYSTEM FOR A CONVENTIONAL CAMERA THAT USES DEPTH INFORMATION FROM AN ARRAY CAMERA
10006-0039-WO-01	WO	Lapsed	PCT/US2015/032467	5/26/2015	2015/183824	12/3/2015			ARRAY CAMERA AUTOFOCUS SYSTEM FOR A CONVENTIONAL CAMERA THAT USES DEPTH INFORMATION FROM AN ARRAY CAMERA
10006-0040-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
10006-0041-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
10006-0041-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
10006-0041-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
10006-0041-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
6-0041-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
6-0041-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
6-0041-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
6-0041-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
6-0041-WO-01	WO	Lapsed	PCT/US2015/026545	4/17/2015	2016/167814	10/21/2016			SYSTEMS AND METHODS FOR PERFORMING HIGH SPEED VIDEO CAPTURE AND DEPTH ESTIMATION USING ARRAY CAMERAS
6-0042-CN-01	CN	In Force	201680028821.3	4/19/2016	108307675	7/20/2018	108307675	12/25/2020	MULTI-BASELINE CAMERA ARRAY SYSTEM ARCHITECTURES FOR DEPTH AUGMENTATION IN VR/AR APPLICATIONS
6-0042-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
6-0042-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
6-0042-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
6-0042-KR-01	KR	Pending	10-2017-7033448	4/19/2016					MULTI-BASELINE CAMERA ARRAY SYSTEM ARCHITECTURES FOR DEPTH AUGMENTATION IN VR/AR APPLICATIONS
6-0042-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

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10006-0042-US-02	US	In Force	15/133,186	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
10006-0042-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
10006-0042-US-04	US	Pending	17/807,508	6/17/2022					MULTI-BASELINE CAMERA ARRAY SYSTEM ARCHITECTURES FOR DEPTH AUGMENTATION IN VR/AR APPLICATIONS
10006-0042-WO-01	WO	Lapsed	PCT/US2016/028317	4/19/2016	2016/172125	10/27/2016			MULTI-BASELINE CAMERA ARRAY SYSTEM ARCHITECTURES FOR DEPTH AUGMENTATION IN VR/AR APPLICATIONS
10006-0043-CN-01	CN	Lapsed	201180031287.9	5/12/2011	103004180				ARCHITECTURES FOR IMAGER ARRAYS AND ARRAY CAMERAS
10006-0043-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
10006-0043-EP-01	EP	Lapsed	11781313.9	5/12/2011	2569935	3/20/2013	2569935	12/28/2016	ARCHITECTURES FOR IMAGER ARRAYS AND ARRAY CAMERAS
10006-0043-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
10006-0043-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
10006-0043-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
10006-0043-KR-01	KR	In Force	10-2012-7032552	5/12/2011	10-2013-0136372	12/12/2013	10-1824672	1/26/2018	ARCHITECTURES FOR IMAGER ARRAYS AND ARRAY CAMERAS
10006-0043-SG-02	SG	Lapsed	10201503516V	5/12/2011					ARCHITECTURES FOR IMAGER ARRAYS AND ARRAY CAMERAS
10006-0043-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
10006-0044-CN-01	CN	Lapsed	201280057587.9	10/11/2012	104185808				LENS STACK ARRAYS INCLUDING ADAPTIVE OPTICAL ELEMENTS
10006-0044-EP-01	EP	Lapsed	12839821.1	10/11/2012	2766767	8/20/2014			LENS STACK ARRAYS INCLUDING ADAPTIVE OPTICAL ELEMENTS
10006-0044-KR-01	KR	Lapsed	10-2014-7012405	10/11/2012					LENS STACK ARRAYS INCLUDING ADAPTIVE OPTICAL ELEMENTS
10006-0044-SG-01	SG	Lapsed	11201401363U	10/11/2012					LENS STACK ARRAYS INCLUDING ADAPTIVE OPTICAL ELEMENTS
10006-0044-US-03	US	Lapsed	14/868,942	9/29/2015	20160165106	6/9/2016			LENS STACK ARRAYS INCLUDING ADAPTIVE OPTICAL ELEMENTS
10006-0045-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
10006-0045-US-04	US	In Force	15/785,315	10/16/2017	20180097993	4/5/2018	10,375,302	8/6/2019	SYSTEMS AND METHODS FOR CONTROLLING ALIASING IN IMAGES CAPTURED BY AN ARRAY CAMERA FOR USE IN SUPER RESOLUTION PROCESSING USING PIXEL APERTURES
10006-0046-CN-01	CN	In Force	201280055766.9	9/28/2012	104081414	10/1/2014	41201280055766.9	8/1/2017	SYSTEMS AND METHODS FOR ENCODING AND DECODING LIGHT FIELD IMAGE FILES
10006-0046-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
10006-0046-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
10006-0046-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
10006-0046-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
10006-0046-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
10006-0046-IN-01	IN	In Force	2708/CHENP/2014	9/28/2012			361194	3/15/2021	SYSTEMS AND METHODS FOR ENCODING AND DECODING LIGHT FIELD IMAGE FILES
10006-0046-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
10006-0046-JP-02	JP	In Force	2017-91357	9/28/2012	2017-163587	9/14/2017	6630891	12/20/2019	SYSTEMS AND METHODS FOR ENCODING AND DECODING LIGHT FIELD IMAGE FILES
6-0046-JP-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-KR-01	KR	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-NL-01	NL	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-02	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-03	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-04	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-05	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-06	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	SYSTEMS AND METHODS FOR ENCODING LIGHT FIELD IMAGE FILES HAVING DEPTH AND CONFIDENCE MAPS
6-0046-US-08	US	In Force	14/481,270	9/9/2014	20150003753	1/1/2015	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	SYSTEMS AND METHODS FOR ENCODING REFOCUSABLE LIGHT FIELD IMAGE FILES
6-0046-US-10	US	In Force	14/481,313	9/9/2014	20150003752	1/1/2015	9,025,895	5/5/2015	SYSTEMS AND METHODS FOR ENCODING LIGHT FIELD IMAGE FILES HAVING A DEPTH MAP
6-0046-US-11	US	In Force	14/504,684	10/2/2014	20150055884	2/26/2015	9,031,343	5/12/2015	SYSTEMS AND METHODS FOR ENCODING LIGHT FIELD IMAGE FILES USING A DEPTH MAP
6-0046-US-12	US	In Force	14/504,687	10/2/2014	20150015669	1/15/2015	9,042,667	5/26/2015	SYSTEMS AND METHODS FOR ENCODING IMAGE FILES CONTAINING DEPTH MAPS STORED AS METADATA
6-0046-US-13	US	In Force	14/667,492	3/24/2015	20150199841	7/16/2015	9,536,166	1/3/2017	SYSTEMS AND METHODS FOR ENCODING LIGHT FIELD IMAGE FILES
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 IMAGE FILES CONTAINING DEPTH MAPS STORED AS METADATA

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I0006-0046-US-16	US	In Force	15/396,024	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
I0006-0046-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
I0006-0046-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
I0006-0046-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
I0006-0046-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
I0006-0047-EP-01	EP	Pending	13841613.6	9/30/2013	2901671	8/5/2015			GENERATING IMAGES FROM LIGHT FIELDS UTILIZING VIRTUAL VIEWPOINTS
I0006-0047-US-03	US	In Force	14/876,024	10/6/2015	20160255333	9/1/2016	10,390,005	8/20/2019	GENERATING IMAGES FROM LIGHT FIELDS UTILIZING VIRTUAL VIEWPOINTS
I0006-0048-CN-01	CN	In Force	201380049828.X	8/23/2013	104685513	6/3/2015	ZL201380049828.X	4/27/2018	USING AN ARRAY SOURCE
I0006-0048-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
I0006-0048-IN-01	IN	Lapsed	1488DELINP2015	8/23/2013					FEATURE BASED HIGH RESOLUTION MOTION ESTIMATION FROM LOW RESOLUTION IMAGES CAPTURED USING AN ARRAY SOURCE
I0006-0048-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
I0006-0048-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
I0006-0048-US-05	US	Lapsed	16/664,563	10/25/2019					USING AN ARRAY SOURCE
I0006-0049-CN-01	CN	Lapsed	201380041095.5	6/14/2013	104520754	5/6/2015			STACK ARRAYS AND SENSORS
I0006-0049-EP-01	EP	Lapsed	13810429.4	6/14/2013	2867718	8/3/2015			SYSTEMS AND METHODS FOR MANUFACTURING CAMERA MODULES USING ACTIVE ALIGNMENT OF LENS
I0006-0049-JP-01	JP	Lapsed	2015520272	6/14/2013	2015-522178				STACK ARRAYS AND SENSORS
I0006-0049-KR-01	KR	Lapsed	10-2015-7002415	6/14/2013					SYSTEMS AND METHODS FOR MANUFACTURING CAMERA MODULES USING ACTIVE ALIGNMENT OF LENS
I0006-0049-US-01	US	In Force	15/004,759	1/22/2016	20160266284	9/15/2016	9,766,380	9/19/2017	STACK ARRAYS AND SENSORS
I0006-0049-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	11,022,725	6/1/2021	SYSTEMS AND METHODS FOR MANUFACTURING CAMERA MODULES USING ACTIVE ALIGNMENT OF LENS
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	ZL 201580056436.5	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	3201877	8/9/2017	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	18205326.4	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	10,944,961	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

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10006-0051-WO-01	WO	Lapsed	PCT/US2015/053013	9/29/2015	2016/054089	4/7/2016			SYSTEMS AND METHODS FOR DYNAMIC CALIBRATION OF ARRAY CAMERAS
10006-0056-CN-01	CN	Pending	201880058509.8	8/17/2018	111066065	4/24/2020			SYSTEMS AND METHODS FOR HYBRID DEPTH REGULARIZATION
10006-0056-DE-01	DE	In Force	18756418.2	8/17/2018	3673461	7/1/2020	602018023303.2 (EP3673461)	9/8/2021	SYSTEMS AND METHODS FOR HYBRID DEPTH REGULARIZATION
10006-0056-EP-01	EP	Lapsed	18756418.2	8/17/2018	3673461	7/1/2020	3673461	9/8/2021	SYSTEMS AND METHODS FOR HYBRID DEPTH REGULARIZATION
10006-0056-EP-02	EP	Pending	21193887.3	8/17/2018					SYSTEMS AND METHODS FOR HYBRID DEPTH REGULARIZATION
10006-0056-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
10006-0056-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
10006-0056-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
10006-0056-IT-01	IT	In Force	18756418.2	8/17/2018	3673461	7/1/2020	502021000090212 (EP3673461)	9/8/2021	SYSTEMS AND METHODS FOR HYBRID DEPTH REGULARIZATION
10006-0056-NL-01	NL	In Force	18756418.2	8/17/2018	3673461	7/1/2020	3673461	9/8/2021	SYSTEMS AND METHODS FOR HYBRID DEPTH REGULARIZATION
10006-0056-US-01	US	In Force	15/682,295	8/21/2017	20190057513	2/21/2019	10,482,618	11/19/2019	SYSTEMS AND METHODS FOR HYBRID DEPTH REGULARIZATION
10006-0056-US-02	US	In Force	16/685,881	11/15/2019	20200151894	5/14/2020	10,818,026	10/27/2020	SYSTEMS AND METHODS FOR HYBRID DEPTH REGULARIZATION
10006-0056-US-03	US	Pending	17/078,732	10/23/2020	20210042952	2/11/2021			SYSTEMS AND METHODS FOR HYBRID DEPTH REGULARIZATION
10006-0056-WO-01	WO	Lapsed	PCT/EP2018/072303	8/17/2018	2019/038193	2/28/2019			SYSTEMS AND METHODS FOR HYBRID DEPTH REGULARIZATION
10006-0058-US-01	US	In Force	15/823,473	11/27/2017	20190164341	5/30/2019	10,643,383	5/5/2020	SYSTEMS AND METHODS FOR 3D FACIAL MODELING
10006-0058-US-02	US	In Force	16/865,776	5/4/2020	20200334905	10/22/2020	11,257,289	2/22/2022	SYSTEMS AND METHODS FOR 3D FACIAL MODELING
10006-0058-US-03	US	Pending	17/652,078	2/22/2022					SYSTEMS AND METHODS FOR 3D FACIAL MODELING
10006-0058-WO-01	WO	Lapsed	PCT/IB2018/059366	11/27/2018					SYSTEMS AND METHODS FOR DEPTH ESTIMATION USING GENERATIVE MODELS
10006-0059-US-01	US	Lapsed	62/627,650	2/7/2018					SYSTEMS AND METHODS FOR DEPTH ESTIMATION USING GENERATIVE MODELS
10006-0059-US-02	US	In Force	16/269,108	2/6/2019	20190244379	8/8/2019	11,024,046	6/1/2021	SYSTEMS AND METHODS FOR DEPTH ESTIMATION USING GENERATIVE MODELS
10006-0059-US-03	US	Pending	17/331,428	5/26/2021	20210358154	11/18/2021			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.



6042363 8100
SR# 20223259347

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

A handwritten signature in black ink, appearing to read "JBullock", is written over a horizontal line. Below the line, the text "Jeffrey W. Bullock, Secretary of State" is printed.

Jeffrey W. Bullock, Secretary of State

Authentication: 204159153
Date: 08-15-22

PATENT
REEL: 061993 FRAME: 0940

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)]

PATENT

RECORDED: 11/23/2022

REEL: 061993 FRAME: 0942