

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7661001

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PELICAN IMAGING CORPORATION	10/31/2016
RECEIVING PARTY DATA	
Name:	FOTONATION CAYMAN LIMITED
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: 67	
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PATENT ASSIGNMENT AGREEMENT

THIS PATENT ASSIGNMENT AGREEMENT ("Assignment"), effective October 31, 2016 (the "Effective Date"), is entered into by and between Pelican Imaging Corporation, a Delaware corporation ("Assignor"), and FotoNation Cayman Limited, a Cayman Islands limited partnership ("Assignee").

WHEREAS, Assignee has agreed to accept and assume from Assignor all right, title and interest in and to Assignor's Assigned Patent Rights (defined below) and Assignor desires to assign the same to Assignee.

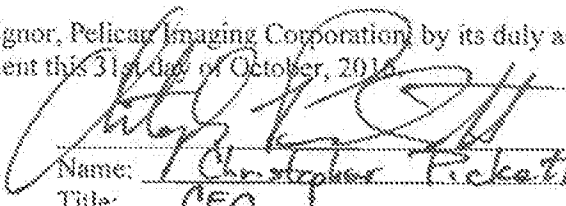
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

Assignor hereby assigns, transfers, and conveys to Assignee, and Assignee accepts, all of Assignor's right, title, and interest throughout the world in and to the patents and patent applications set forth on Exhibit A, together with all divisions, continuations, or continuations-in-part thereof, and all patents issuing thereon including reissues, renewals, substitutions, re-examinations and extensions thereof, and any and all corresponding foreign patents and patent applications (collectively, the "Assigned Patent Rights"); and all rights and privileges pertaining to the subject matter above, including, without limitation, all causes of action, claims, demands presently or hereafter accruing with respect to the same, including the right to sue or bring other actions for past, present and future infringement thereof anywhere in the world. Assignor further assigns all rights, and empowers Assignee, its successors, assigns and nominees, to make applications for patent registration or other intellectual property protection anywhere in the world, to claim and receive the benefit of any applicable rights of priority in connection with such applications, to prosecute such applications to issue, and to have any and all registrations issued in the name of Assignee for all Assigned Patent Rights.

Assignor further agrees that Assignor will at Assignee's cost: (i) cooperate with Assignee in the filing and prosecution of any and all patent registrations or applications or other intellectual property registration or application pertaining to the Assigned Patent Rights; (ii) execute, verify, acknowledge and deliver all such further papers, including applications and instruments of transfer; and (iii) perform such other acts as Assignee lawfully may request, to facilitate Assignee's right to obtain, protect, maintain, defend or enforce any of the Assigned Patent Rights granted hereunder. In the event that Assignee is unable for any reason whatsoever to secure Assignor's signature to any document when so required to effectuate fully this Assignment, Assignor hereby irrevocably designates and appoints Assignee and Assignee's duly authorized officers and agents, as Assignor's agents and attorneys-in-fact to act for and on its behalf and instead of it, to execute and file any such document and to do all other lawfully permitted acts to further the purposes of the foregoing, with the same legal force and effect as if executed by Assignor (it being acknowledged that such appointment a power coupled with an interest).

This Agreement may be executed in counterparts, each of which is deemed an original, but all of which together are deemed to be one and the same agreement.

IN TESTIMONY WHEREOF, Assignor, Pelican Imaging Corporation by its duly authorized representative, hereby executes this assignment this 31st day of October, 2016.


Name: Christopher Pickett
Title: CEO

STATE OF CALIFORNIA)

COUNTY OF _____)

On _____, 2016, before the undersigned, a Notary Public for the State and County aforesaid, personally appeared _____, known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the above assignment, and acknowledged that he/she executed the same.

See official form
Notary Public

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
)
COUNTY OF _____)

On _____, before me, _____, Notary Public, personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Public

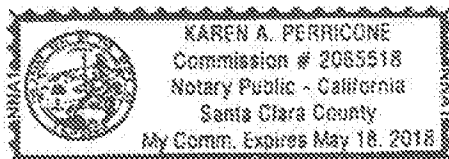
IN TESTIMONY WHEREOF, Assignee, FotoNation Cayman Limited, by its duly authorized representative, hereby executes this assignment this 31st day of October, 2016.

Paul Davis
Name: Paul Davis
Title: VP and General Counsel

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
)
COUNTY OF SANTA CLARA)

On October 31, 2016, before me, Karen A. Perricone, Notary Public, personally appeared Paul Davis, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Karen Perricone

Notary Public

Schedule A

Assigned Patent Rights

Patents

FILE NUMBER	COUNTRY	SERIAL NUMBER	FILING DATE	TITLE	INVENTORS (FIRST NAME LAST NAME)	PUBLICATION NUMBER	PATENT NUMBER	GRANT DATE	STATUS	CLUSTER NAME
01579	US	12935504	May 20, 2009	Capturing and Processing of Images Using Monolithic Camera Array with Heterogeneous Images	Karrik Venkataraman, Ananddeep S. Jabbal, Robert H. Mullis, Jr.	US-2011-0069189-A1	8902321	Dec 2, 2014	Issued	Pelican Array Camera Architecture Cases
01579.CN	CN	200980117890.1	May 20, 2009	Capturing and Processing of Images Using Monolithic Camera Array with Heterogeneous Images	Karrik Venkataraman, Ananddeep S. Jabbal, Robert H. Mullis, Jr.	102037717	ZL 200980117890.1	Nov 6, 2013	Issued	Pelican Array Camera Architecture Cases
01579.CN.DIV	CN	201310438869.X	May 20, 2009	Capturing and Processing of Images Using Monolithic Camera Array with Heterogeneous Images	Karrik Venkataraman, Ananddeep S. Jabbal, Robert H. Mullis, Jr.	CN103501416A			Published	Pelican Array Camera Architecture Cases
01579.CON	US	14447477	Jul 30, 2014	Systems and Methods for Parallax Measurement Using Camera Arrays Incorporating 3 x 3 Camera	Karrik Venkataraman, Ananddeep S. Jabbal, Robert H. Mullis, Jr.	US-2014-0333787-A1	8896719	Nov 25, 2014	Issued	Pelican Array Camera Architecture Cases

				Configurations						
01579.CON10	US	14475473	Sep 2, 2014	Capturing and Processing of Images Captured by Camera Arrays Including Heterogeneous Optics	Karik Venkataraman, Ananddeep S. Jabbi, Robert H Mullis, Jr.	US-2014-0368684-A1	9060142	Jun 16, 2015	Issued	Pelican Array Camera Architecture Cases
01579.CON11	US	14475477	Sep 2, 2014	Capturing and Processing of High Dynamic Range Images Using Camera Arrays	Karik Venkataraman, Ananddeep S. Jabbi, Robert H Mullis, Jr.	US-2014-0368685-A1	9041829	Mar 26, 2015	Issued	Pelican Array Camera Architecture Cases
01579.CON12	US	14459293	Aug 13, 2014	Systems and Methods for Synthesizing Higher Resolution Images Using Images Captured by Camera Arrays	Karik Venkataraman, Ananddeep S. Jabbi, Robert H Mullis, Jr.	US-2014-0354855-A1	9049367	Jun 2, 2015	Issued	Pelican Image Processing Pipeline Cases
01579.CON13	US	14447508	Jul 30, 2014	Systems and Methods for Generating Depth Maps Using Images Captured by Camera Arrays	Karik Venkataraman, Ananddeep S. Jabbi, Robert H Mullis, Jr.	US-2014-0333764-A1	9060129	Jun 16, 2015	Issued	Pelican Image Processing Pipeline Cases
01579.CON14	US	14704909	May 5, 2015	Systems and Methods for Generating Depth Maps Using Light Focused on an	Karik Venkataraman, Ananddeep S. Jabbi, Robert H Mullis, Jr.	US-2015-0233571-A1	9233898	Jun 12, 2016	Issued	Pelican Array Camera Architecture Cases

01579.CON15	US	14988670	Jun 5, 2016	Image Sensor by a Lens Element Array	Karik Venkannan, Ananddeep S. Jabbu, Robert H. Mullis, Jr.	US-2016-026765-A1			Allowed	Pelican Array Camera Architecture Cases
01579.CON16	US	15095930	Apr 11, 2016	Systems and Methods for Measuring Depth Using Images Captured by a Camera Array Including Cancels Surrounding a Central Camera	Karik Venkannan, Ananddeep S. Jabbu, Robert H. Mullis, Jr.	US-2016-0227195-A1	9485396	Nov 1, 2016	Allowed	Pelican Array Camera Architecture Cases
01579.CON17	US	15242598	Aug 22, 2016	Systems and Methods for Generating Depth Maps Using a Camera Array's Incorporating Monochrome and Color Cancels	Karik Venkannan, Ananddeep S. Jabbu, Robert H. Mullis				Pending	
01579.CON2	US	14497159	Sep 25, 2014	Capturing and Processing of Images Captured by Camera Arrays Including Cancels	Karik Venkannan, Ananddeep S. Jabbu, Robert H. Mullis, Jr.	US-2015-0009362-A1	9060121	Jun 16, 2015	Issued	Pelican Array Camera Architecture Cases

				Dedicated to Sampling Luna and Cancer Dedicated to Sampling Chroma						
01579.CON3	US	14475449	Sep 2, 2014	Capturing and Processing of Images Using Non-Monolithic Camera Arrays	Karik Venkataraman, Ananddeep S. Jabb, Robert H Mullis, Jr.	US-2014-0368683-A1	9060124	Jun 16, 2015	Issued	Pelican Array Camera Architecture Cases
01579.CON4	US	14497171	Sep 25, 2014	Systems and Methods for Measuring Depth Using Images Captured by Monolithic Camera Arrays Including at Least One Bayer Camera	Karik Venkataraman, Ananddeep S. Jabb, Robert H Mullis, Jr.	US-2015-0009353-A1	9053213	Jun 9, 2015	Issued	Pelican Array Camera Architecture Cases
01579.CON5	US	1447485	Jul 30, 2014	Systems and Methods for Performing Post Capture Refocus Using Images Captured by Camera Arrays	Karik Venkataraman, Ananddeep S. Jabb, Robert H Mullis, Jr.	US-2014-033731-A1	9041823	May 26, 2015	Issued	Pelican Image Processing Pipeline Cases
01579.CON6	US	14497180	Sep 25, 2014	Capturing and Processing of Images Captured by Non-Grid Camera Arrays	Karik Venkataraman, Ananddeep S. Jabb, Robert H Mullis, Jr.	US-2015-0009354-A1	9077893	Jul 7, 2015	Issued	Pelican Array Camera Architecture Cases

01579.CON7	US	14459296	Aug 13, 2014	Systems and Methods for Measuring Depth Using Images Captured by Camera Arrays	Kanik Venkataraman, Ananddeep S. Jabbi, Robert H Mullis, Jr.	US-2014-035484-A1	8885059	Nov 11, 2014	Issued	Pelican Array Camera Architecture Cases
01579.CON8	US	14475466	Sep 2, 2014	Capturing and Processing of Near-IR Images Including Occlusions Using Camera Arrays Incorporating Near-IR Light Sources	Kanik Venkataraman, Ananddeep S. Jabbi, Robert H Mullis, Jr.	US-2014-0368662-A1	9049391	Jun 2, 2015	Issued	Pelican Array Camera Architecture Cases
01579.CON9	US	1447394	Jul 30, 2014	Capturing and Processing of Images Captured by Arrays Including Polychromatic Cameras	Kanik Venkataraman, Ananddeep S. Jabbi, Robert H Mullis, Jr.	US-2014-0340539-A1	9049390	Jun 2, 2015	Issued	Pelican Array Camera Architecture Cases
01579.EP	EP	097631949	May 20, 2009	Capturing and Processing of Images Using Monolithic Camera Array with Heterogeneous Images	Kanik Venkataraman, Ananddeep S. Jabbi, Robert H Mullis, Jr.	2289235			Pending	Pelican Array Camera Architecture Cases
01579.JP	JP	2011510681	May 20, 2009	Capturing and Processing of Images Using Monolithic Camera Array with Heterogeneous	Kanik Venkataraman, Ananddeep S. Jabbi, Robert H Mullis, Jr.	2011-521538			Pending	Pelican Array Camera Architecture Cases

01579 JP DIV	JP	2014264372	May 20, 2009	Capturing and Processing of Images Using Monolithic Camera Array with Heterogeneous Imagers	Kanik Venkannan, Anandeeep S. Jabbi, Robert H Mullis, Jr.		5989076	Aug 19, 2016	Issued	Pelican Array Camera Architecture Cases
01579 JP DIV2	JP	2016121809	May 20, 2009	Capturing and Processing of Images Using Monolithic Camera Array with Heterogeneous Imagers	Kanik Venkannan, Anandeeep S. Jabbi, Robert H Mullis, Jr.				Pending	Pelican Array Camera Architecture Cases
01579 KR	KR	1020107028308	May 20, 2009	Capturing and Processing of Images Using Monolithic Camera Array with Heterogeneous Imagers	Kanik Venkannan, Anandeeep S. Jabbi, Robert H Mullis, Jr.		10-1588577	Jun 20, 2016	Issued	Pelican Array Camera Architecture Cases
01579 KR DIV	KR	1020167901433	May 20, 2009	Capturing and Processing of Images Using Monolithic Camera Array with Heterogeneous Imagers	Kanik Venkannan, Anandeeep S. Jabbi, Robert H Mullis, Jr.				Pending	Pelican Array Camera Architecture Cases
01579 SG	SG	2010679085	May 20, 2009	Capturing and Processing of Images Using Monolithic Camera Array	Kanik Venkannan, Anandeeep S. Jabbi, Robert H Mullis, Jr.		166239	Feb 28, 2011	Issued	Pelican Array Camera Architecture Cases

01660	US	12967807	Dec 14, 2010	Systems and Methods for Synthesizing High Resolution Images Using Super-Resolution Processes	Dan Lelescu, Gabriel Mohina, Karik Venkataraman	US-2012-0147205-A1	8878950	Nov 4, 2014	Issued	Pelican Image Processing Pipeline Cases
01660 CA	CA	2821965	Dec 14, 2011	System and Methods for Synthesizing High Resolution Images Using Super-Resolution Processes	Dan Lelescu, Gabriel Mohina, Karik Venkataraman				Pending	Pelican Image Processing Pipeline Cases
01660 CON	US	14519659	Oct 21, 2014	Systems and Methods for Synthesizing High Resolution Images Using Images Captured by an Array of Independently Controllable Imagers	Dan Lelescu, Gabriel Mohina, Karik Venkataraman	US-2015-0036014-A1	9361662	Jun 7, 2016	Issued	Pelican Image Processing Pipeline Cases
01660 CON2	US	14520766	Oct 21, 2014	Systems and Methods for Synthesizing High Resolution Images Using a Set of	Dan Lelescu, Gabriel Mohina, Karik Venkataraman	US-2015-0042853-A1	9047684	Jun 2, 2015	Issued	Pelican Calibration Cases

				Geometrically Registered Images						
01660 CON3	US	14520269	Oct 21, 2014	Systems and Methods for Dynamic Refocusing of High Resolution Images Generated Using Images Captured by a Plurality of Images	Dan Lelescu, Gabriel Molina, Karthik Venkatarman	US-2015-0036015-A1	9041824	May 26, 2015	Issued	Pelican Image Processing Pipeline Cases
01660 CON4	US	14170788	Jun 1, 2016	Systems and Methods for Synthesizing High Resolution Images Using Images Captured by an Array of Independently Controllable Images	Dan Lelescu, Gabriel Molina, Karthik Venkatarman				Pending	Pelican Image Processing Pipeline Cases
01660 EP	EP	118483080	Dec 14, 2011	System and Methods for Synthesizing High Resolution Images Using Super-Resolution Processes	Dan Lelescu, Gabriel Molina, Karthik Venkatarman	EP 2652678			Published	Pelican Image Processing Pipeline Cases
01660 SG	SG	2013045703	Dec 14, 2011	System and Methods for Synthesizing High Resolution Images Using Super-Resolution Processes	Dan Lelescu, Gabriel Molina, Karthik Venkatarman		191151	Mar 3, 2015	Issued	Pelican Image Processing Pipeline Cases

01883	US	12952106	Nov 22, 2010	Resolution Images Using Super-Resolution Processes	Jacques Duparc	US-2011-0122308-A1	8514491	Aug 20, 2015	Issued	Pelican Optics Cases
01883 CON	US	13948054	Jul 22, 2013	Capturing and Processing of Images Using Monolithic Camera Array with Heterogeneous Images	Jacques Duparc	US-2013-0308197-A1	8861089	Oct 14, 2014	Issued	Pelican Array Camera Architecture Cases
01883 CON2	US	14475481	Sep 2, 2014	Capturing and Processing of Images Including Occlusions Captured by Heterogeneous Camera Arrays	Jacques Duparc	US-2014-0368686-A1	9264610	Feb 16, 2016	Issued	Pelican Array Camera Architecture Cases
01883 CON3	US	15043997	Feb 15, 2016	Capturing and Processing of Images Including Occlusions Captured by Heterogeneous Camera Arrays	Jacques Duparc	US-2016-0269664-A1			Published	Pelican Array Camera Architecture Cases
01883 EP	EP	108323304	Nov 22, 2010	Capturing and Processing of Images Using Monolithic Camera Array	Karik Venkannan, Ananddeep S. Jebi, Robert H	2502115			Pending	Pelican Optics Cases

01883.TW	TW	099147177	Nov 22, 2010	Camera Array with Heterogeneous Imagers	Mullis, Jr., Jacques Duparre, Shane Chung-Feng Hu	201226382	1535292	May 21, 2016	Issued	Pelican Optics Cases
01950	US	12952134	Nov 22, 2010	Capturing and Processing of Images Using Monolithic Camera Array with Heterogeneous Imagers	Karik Venkataraman, Ananddeep S. Jabbi, Robert H. Mullis, Jr., Jacques Duparre	US-2011-0080467-A1	8866920	Oct 21, 2014	Issued	Pelican Array Camera Architecture Cases
01950.CON	US	14459276	Aug 13, 2014	Camera Arrays Incorporating 3 x 3 Imager Configurations	Karik Venkataraman, Ananddeep S. Jabbi, Robert H. Mullis, Jr., Jacques Duparre, Shane Chung-Feng Hu	US-2014-0354843-A1	9049411	Jun 2, 2015	Issued	Pelican Array Camera Architecture Cases
01950.CON2	US	14459280	Aug 13, 2014	Capturing and Processing of Images Including Occlusions Captured by Arrays of Luma and Chroma Channels	Karik Venkataraman, Ananddeep S. Jabbi, Robert H. Mullis, Jr., Jacques Duparre, Shane Chung-Feng Hu	US-2014-0347509-A1	9124815	Sep 1, 2015	Issued	Pelican Array Camera Architecture Cases

01950 CON3	US	14459282	Aug 13, 2014	Systems and Methods for Generating Depth Maps Using A Set of Images Containing A Baseline Image	Karik Venkatarman, Ananddeep S. Jabbi, Robert H Mullis, Jr., Jacques Duparre, Shane Chung-Feng Hu	US-2014-0355870-A1	9094061	Jul 28, 2015	Issued	Pelican Image Processing Pipeline Cases
01950 CON4	US	14459283	Aug 13, 2014	Systems and Methods for Synthesizing Higher Resolution Images Using a Set of Images Containing a Baseline Image	Karik Venkatarman, Ananddeep S. Jabbi, Robert H Mullis, Jr., Jacques Duparre, Shane Chung-Feng Hu	US-2014-0354853-A1	9055233	Jun 9, 2015	Issued	Pelican Image Processing Pipeline Cases
01950 CON5	US	14459286	Aug 13, 2014	Capturing and Processing of Images Including Occlusions Captured by Camera Arrays	Karik Venkatarman, Ananddeep S. Jabbi, Robert H Mullis, Jr., Jacques Duparre, Shane Chung-Feng Hu	US-2014-0354854-A1	9191580	Nov 17, 2015	Issued	Pelican Image Processing Pipeline Cases
01950 CON6	US	14459288	Aug 13, 2014	Systems and Methods for Normalizing Image Data Captured by Camera Arrays	Karik Venkatarman, Ananddeep S. Jabbi, Robert H Mullis, Jr., Jacques Duparre, Shane Chung-Feng Hu	US-2014-0354773-A1	9049381	Jun 2, 2015	Issued	Pelican Calibration Cases
01950 CON7	US	14704920	May 5, 2015	Capturing and Processing of Images Including Occlusions	Karik Venkatarman, Ananddeep S. Jabbi, Robert H Mullis, Jr.	US-2015-0234151-A1	9186765	Nov 17, 2015	Issued	Pelican Array Camera Architecture Cases

01950.CON8	US	14943009	Nov 16, 2015	Focused on an Image Sensor by a Lens Stack Array	Jacques Duparte, Shume Ching-Feng Hu	US-2016-0269650-A1		Published	Pelican Array Camera Architecture Cases	
02014	US	13050429	Mar 17, 2011	Capturing and Processing of Images Including Occlusions Focused on an Image Sensor by a Lens Stack Array	Kazuki Venkannan, Ananddeep S. Jothi, Robert H Mullis, Jr., Jacques Duparte, Shume Ching-Feng Hu	US-2011-0241274-A1	8231814	Jul 31, 2012	Issued	Pelican Optics Cases
02014.EP	EP	117570010	Mar 17, 2011	Fabrication Process for Mastering Image Lens Arrays	Jacques Duparte	2548071		Published	Pelican Optics Cases	
02014.JP	JP	2013500207	Mar 17, 2011	Fabrication Process for Mastering Image Lens Arrays	Jacques Duparte	P2013-522681A		Pending	Pelican Optics Cases	
02014.KR	KR	1020127027121	Mar 17, 2011	Fabrication Process for Mastering Image Lens Arrays	Jacques Duparte	10-2013-0004505		Published	Pelican Optics Cases	
02014.SG	SG	2012066938	Mar 17, 2011	Fabrication Process for Mastering Image Lens Arrays	Jacques Duparte		184118	Jul 31, 2015	Issued	Pelican Optics Cases
02075.CN	CN	2011800312879	May 12, 2011	Architectures for Imager Arrays and	Bedabrata Pain, Andrew Kenneth John	CN103004180A		Published	Pelican Sensor Architecture Cases	

02073.CON	US	15159076	May 19, 2016	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	Bedibina Paul, Andrew Kenneth John McMahon				Pending	Pelican Sensor Architecture Cases
02073.EP	EP	117813139	May 12, 2011	Architectures for Imager Arrays and Array Cameras	Bedibina Paul, Andrew Kenneth John McMahon	2369935			Published	Pelican Sensor Architecture Cases
02073.JP	JP	2013510321	Nov 9, 2012	Architectures for Imager Arrays and Array Cameras	Bedibina Paul, Andrew Kenneth John McMahon	2013-526801	5848754	Dec 4, 2015	Issued	Pelican Sensor Architecture Cases
02073.KR	KR	1020127032552	May 12, 2011	Architectures for Imager Arrays and Array Cameras	Bedibina Paul, Andrew Kenneth John McMahon				Pending	Pelican Sensor Architecture Cases
02073.SG.DIV	SG	10201503516V	May 12, 2011	Architectures for Imager Arrays and Array Cameras	Bedibina Paul, Andrew Kenneth John McMahon				Published	Pelican Sensor Architecture Cases
02088	US	13470252	May 11, 2012	Systems and Methods for Transmitting and Receiving Array Camera Image Data	Andrew Kenneth John McMahon	US-2012-0287291-A1	8305456	Nov 6, 2012	Issued	Pelican Sensor Interface/Control Cases
02088.CN	CN	2012800293995	May 11, 2012	Systems and Methods for Transmitting Array Camera Image Data	Andrew Kenneth John McMahon	CN105765864A			Published	Pelican Sensor Interface/Control Cases

02088.CON	US	13668057	Nov 2, 2012	Systems and Methods for Transmitting and Receiving Army Camera Image Data	Andrew Kenneth John McMahon	US-2013-0057710-A1	8692893	Apr 8, 2014	Issued	Pelican Sensor Interface/Control Cases
02088.CON2	US	14246948	Apr 7, 2014	Systems and Methods for Transmitting and Receiving Army Camera Image Data	Andrew Kenneth John McMahon	US-2014-0218546-A1	9197821	Nov 24, 2015	Issued	Pelican Sensor Interface/Control Cases
02088.CON3	US	14936199	Nov 9, 2015	Systems and Methods for Transmitting and Receiving Army Camera Image Data	Andrew Kenneth John McMahon	US-2016-0269626-A1			Published	Pelican Sensor Interface/Control Cases
02088.EP	EP	12782936	May 11, 2012	Systems and Methods for Transmitting Army Camera Data	Andrew Kenneth John McMahon	2708019			Pending	Pelican Sensor Interface/Control Cases
02088.JP	JP	2014310512	May 11, 2012	Systems and Methods for Transmitting Army Camera Data	Andrew Kenneth John McMahon	2014-519741			Published	Pelican Sensor Interface/Control Cases
02088.KR	KR	1020137032457	May 11, 2012	Systems and Methods for Transmitting Army Camera Data	Andrew Kenneth John McMahon				Pending	Pelican Sensor Interface/Control Cases
02101	US	13106804	May 12, 2011	Image Array Interfaces	Andrew Kenneth John McMahon	US-2011-0279721-A1	8928793	Jun 6, 2015	Issued	Pelican Sensor Interface/Control Cases
02101.CON2	US	14886907	Oct 12, 2015	Image Array Interfaces	Andrew Kenneth John McMahon	US-2016-0269627-A1			Published	Pelican Sensor Interface/Control Cases

					McMahon					Cases
02115	US	13536520	Jun 28, 2012	Optical Arrangements for Use with an Army Camera	Jacques Dupure	US-2013-0003184-A1	6804255	Aug 12, 2014	Issued	Pelican Optics Cases
02115, CIP	US	13832126	Mar 15, 2013	Optical Arrangements for Use with an Army Camera	Jacques Dupure, Dan Lelescu, Karik Venkannan	US-2013-0265459-A1			Published	Pelican Optics Cases
02115, CIP, CON	US	14705919	May 6, 2015	Army Cameras Incorporating Optics with Modulation Transfer Functions Greater than Secutor Nyquist Frequency for Capture of Images used in Super-Resolution Processing	Jacques Dupure, Dan Lelescu, Karik Venkannan	US-2015-0244934-A1			Allowed	Pelican Optics Cases
02115, CIP, CON2	US	14705925	May 6, 2015	Army Cameras Incorporating Monolithic Army Camera Modules with High MTF Lens Stacks for Capture of Images Used in Super-Resolution Processing	Jacques Dupure, Dan Lelescu, Karik Venkannan	US-2015-0296137-A1			Allowed	Pelican Optics Cases
02115, DIV	US	14281534	May 19, 2014	Optical Arrangements for Use with an Army Camera	Jacques Dupure	US-2014-0347748-A1	9128228	Sep 8, 2015	Issued	Pelican Optics Cases

02115 EP	EP	128042660	Jun 25, 2012	Optical Arrangements for Use with an Array Camera	Jacques Duparc	2726939			Pending	Pelican Optics Cases
02115 JP	JP	2014318839	Jun 25, 2012	Optical Arrangements for Use with an Array Camera	Jacques Duparc	2014-521117			Published	Pelican Optics Cases
02115 KR	KR	1020137035076	Jun 25, 2012	Optical Arrangements for Use with an Array Camera	Jacques Duparc				Pending	Pelican Optics Cases
02115 SG	SG	2013093141	Jun 25, 2012	Optical Arrangements for Use with an Array Camera	Jacques Duparc	2013093141	Dec 2, 2014		Issued	Pelican Optics Cases
02137 CN	CN	201280575879	Oct 11, 2012	Lens Stack Arrays Including Adaptive Optical Elements	Jacques Duparc	CN104185808A			Published	Pelican Optics Cases
02137 CON	US	14868942	Sep 29, 2015	Lens Stack Arrays Including Adaptive Optical Elements	Jacques Duparc	US-2016-0165106-A1			Published	Pelican Optics Cases
02337 JP	EP	128398211	Oct 11, 2012	Lens Stack Arrays Including Adaptive Optical Elements	Jacques Duparc	2766767			Pending	Pelican Optics Cases
02337 KR	KR	1020147012405	Oct 11, 2012	Lens Stack Arrays Including Adaptive Optical Elements	Jacques Duparc				Pending	Pelican Optics Cases

02337.SG	SG	11201401363U	Oct 11, 2012	Lens Stack Arrays Including Adaptive Optical Elements	Jacques Duparc				Pending	Pelican Optics Cases
02371A.CON	US	13048399	Feb 19, 2016	Systems and Methods for Controlling Aliasing in Images Captured by an Array Camera for use in Super Resolution Processing Using Pixel Apertures	Shree Nayan, Karik Venkataraman, Reddyra Puri, Dan Lelescu				Pending	Pelican Array Camera Architecture Cases
02376A	US	13631731	Sep 28, 2012	Systems and Methods For Encoding Light Field Image Files	Karik Venkataraman, Sanyou Nisenzon, Dan Lelescu	US-2013-0077880-A1	9/29/13	Sep 8, 2015	Issued	Pelican Light Field Image File Format Cases
02376A.CON	US	14667495	Mar 24, 2015	Systems and Methods For Encoding Light Field Image Files	Karik Venkataraman, Sanyou Nisenzon, Dan Lelescu	US-2015-0199793-A1			Published	Pelican Light Field Image File Format Cases
02376A.CON?	US	14477396	Sep 4, 2014	Systems and Methods for Encoding Structured Light Field Image Files	Karik Venkataraman, Sanyou Nisenzon, Dan Lelescu	US-2014-0369612-A1	9/30/28	May 19, 2015	Issued	Pelican Light Field Image File Format Cases
02376A.CON3	US	14304684	Oct 2, 2014	Systems and Methods for Encoding Light Field Image Files Having a Depth Map	Karik Venkataraman, Sanyou Nisenzon, Dan Lelescu	US-2015-0055884-A1	9/31/43	May 12, 2015	Issued	Pelican Light Field Image File Format Cases

02376A.CON4	US	14481241	Sep 9, 2014	Systems and Methods for Encoding Light Field Image Files Having Depth and Confidence Maps	Karik Venkataraman, Semyon Nisenzon, Dan Lelescu	US-2014- 0376825-A1	9031335	May 12, 2015	Issued	Pelican Light Field Image File Format Cases
02376A.CON5	US	14481270	Sep 9, 2014	Systems and Methods For Encoding Refocusable Light Field Image Files	Karik Venkataraman, Semyon Nisenzon, Dan Lelescu	US-2015- 0003753-A1	9031342	May 12, 2015	Issued	Pelican Light Field Image File Format Cases
02376A.CON6	US	14667303	Mar 24, 2015	Systems and Methods For Encoding Light Field Image Files Having Low Resolution Images	Karik Venkataraman, Semyon Nisenzon, Dan Lelescu	US-2015- 0199794-A1			Published	Pelican Light Field Image File Format Cases
02376AB.CN	CN	201280557669	Sep 28, 2012	Systems and Methods for Encoding and Decoding Light Field Image Files	Karik Venkataraman, Semyon Nisenzon	CN104081414A			Published	Pelican Light Field Image File Format Cases
02376AB.EP	EP	128350410	Sep 28, 2012	Systems and Methods for Encoding and Decoding Light Field Image Files	Karik Venkataraman, Semyon Nisenzon	2761534			Published	Pelican Light Field Image File Format Cases
02376AB.IN	IN	2708CHENP2014	Sep 28, 2012	Systems and Methods for Encoding and Decoding Light Field Image Files	Karik Venkataraman, Semyon Nisenzon				Published	Pelican Light Field Image File Format Cases

02376AB JP	JP	2014533435	Sep 28, 2012	Systems and Methods for Encoding and Decoding Light Field Image Files	Karik Venkatarman, Semyon Nisenzon	2014-535191			Published	Pelican Light Field Image File Format Cases
02376AB KR	KR	1020147011449	Sep 28, 2012	Systems and Methods for Encoding and Decoding Light Field Image Files	Karik Venkatarman, Semyon Nisenzon				Pending	Pelican Light Field Image File Format Cases
02376B	US	13631736	Sep 28, 2012	Systems and Methods for Decoding Light Field Image Files	Karik Venkatarman, Semyon Nisenzon	US-2013-0077882-A1	8342933	Sep 24, 2013	Issued	Pelican Light Field Image File Format Cases
02376B CON	US	13955411	Jul 31, 2013	Systems and Methods for Decoding Light Field Image Files	Karik Venkatarman, Semyon Nisenzon	US-2013-0315494-A1	8831367	Sep 9, 2014	Issued	Pelican Light Field Image File Format Cases
02376B CON2	US	14477374	Sep 4, 2014	Systems and Methods for Decoding Structured Light Field Image Files	Karik Venkatarman, Semyon Nisenzon, Dan Lelescu	US-2014-0369615-A1	9036931	May 19, 2015	Issued	Pelican Light Field Image File Format Cases
02376B CON3	US	14504667	Oct 2, 2014	Systems and Methods for Decoding Light Field Image Files Using a Depth Map	Karik Venkatarman, Semyon Nisenzon, Dan Lelescu	US-2015-0015669-A1	9042667	May 26, 2015	Issued	Pelican Light Field Image File Format Cases
02376B CON4	US	14481291	Sep 9, 2014	Systems and Methods for Decoding Light Field Image Files Having Depth Confidence	Karik Venkatarman, Semyon Nisenzon, Dan Lelescu	US-2014-0376826-A1	9025894	May 5, 2015	Issued	Pelican Light Field Image File Format Cases

				Maps						
02376B.CON5	US	14481313	Sep 9, 2014	Systems and Methods for Decoding Refocusable Light Field Image Files	Kanik Venkannaman, Sanyou Nisenzou, Dan Lelescu	US-2015-0003752-A1	9023695	May 5, 2015	Issued	Pelican Light Field Image File Format Cases
02376B.CON6	US	14667492	Mar 24, 2015	Systems and Methods for Decoding Image Files Containing Depth Maps Stored as Metadata	Kanik Venkannaman, Sanyou Nisenzou, Dan Lelescu	US-2015-0199841-A			Allowed	Pelican Light Field Image File Format Cases
02407	US	13773284	Feb 21, 2013	Systems and Methods for the Manipulation of Captured Light Field Image Data	Andrew Kenneth John McMahon, Kanik Venkannaman, Robert H Mullis, Jr.	US-2013-0215108-A1	9412206	Aug 9, 2016	Issued	Pelican User Interface Cases
02407.CON	US	14705914	May 6, 2015	Systems and Method for Performing Depth Based Image Editing	Andrew Kenneth John McMahon, Kanik Venkannaman, Robert H Mullis, Jr.	US-2015-0235476-A1			Published	Pelican User Interface Cases
02407.EP	EP	137517140	Feb 21, 2013	Systems and Methods for the Manipulation of Captured Light Field Image Data	Andrew Kenneth John McMahon, Kanik Venkannaman, Robert H Mullis, Jr.	2617955			Published	Pelican User Interface Cases

02408 CON	US	14876024	Oct 6, 2015	Generating Images from Light Fields Utilizing Virtual Viewpoints	Semyon Nisenzon, Arik K. Jain	US-2016-0255333-A1		Published	Pelican User Interface Cases
02408 EP	EP	178416136	Sep 30, 2015	Generating Images from Light Fields Utilizing Virtual Viewpoints	Arik K. Jain, Semyon Nisenzon	2901671		Published	Pelican User Interface Cases
02409	US	14028278	Sep 16, 2015	Systems and Methods for Correcting User Identified Artifacts in Light Field Images	Kamil Verheide, Florian Chua	US-2014-0079336-A1	9214013	Dec 15, 2015	Pelican User Interface Cases
02472 CN	CN	20138049828X	Aug 23, 2015	Feature Based High Resolution Motion Estimation from Low Resolution Images Captured Using an Array Source	Dan Lelescu, Arik K. Jain	CN10468513A		Published	Pelican Image Processing Pipeline Cases
02472 CON	US	14933871	Nov 5, 2015	Feature Based High Resolution Motion Estimation from Low Resolution Images Captured Using an Array Source	Dan Lelescu, Arik K. Jain	US-2016-0165134-A1		Published	Pelican Image Processing Pipeline Cases

02472.EP	EP	138317680	Aug 23, 2013	Feature Based High Resolution Motion Estimation from Low Resolution Images Captured Using an Array Source	Dan Lelescu, Ankil K. Jain	2888698			Pending	Pelican Image Processing Pipeline Cases
02472.IN	IN	1488DELNP2015	Aug 23, 2013	Feature Based High Resolution Motion Estimation from Low Resolution Images Captured Using an Array Source	Dan Lelescu, Ankil K. Jain				Pending	Pelican Image Processing Pipeline Cases
02513	US	14204996	Mar 11, 2014	Systems and Methods for Image Data Compression	Andrew Kenneth John McMahon, Karik Venkatarman				Allowed	Pelican Sensor Interface/Control Cases
02525	US	13875248	May 1, 2013	Camera Modules Patented with PI Filter Groups	Seanyou Nisenzon, Karik Venkatarman	US-2013-0293700-A1	9216592	Dec 8, 2013	Issued	Pelican Array Camera Architecture Cases
02525-CN	CN	201380292037	May 1, 2013	Camera Modules Patented with PI Filter Groups	Seanyou Nisenzon, Karik Venkatarman	CN104335246A			Published	Pelican Array Camera Architecture Cases
02525-CN	US	14952195	Nov 25, 2015	Camera Modules Patented with PI Filter	Seanyou Nisenzon, Karik Venkatarman	US-2016-0165147-A1			Published	Pelican Array Camera Architecture Cases

02523 EP	EP	137852208	May 1, 2013	Camera Modules Patented with p1 Filter Groups	Seungh Nisenzon, Karik Venkannan	2845167				Pending	Pelican Array Camera Architecture Cases
02525 JP	JP	2015510443	May 1, 2013	Camera Modules Patented with p1 Filter Groups	Seungh Nisenzon, Karik Venkannan	2015-521411				Published	Pelican Array Camera Architecture Cases
02530 CN	CN	2013800410953	Jun 14, 2013	Systems and Methods for Manufacturing Camera Modules Using Active Alignment of Lens Stack Arrays and Sensors	Jacques Duparc, Andrew Kenneth John McMahon, Dan Lelescu	CN104520734A				Published	Pelican Array Camera Module Manufacturing Cases
02530 CON	US	15004759	Jan 22, 2016	Systems and Methods for Manufacturing Camera Modules Using Active Alignment of Lens Stack Arrays and Sensors	Jacques Duparc, Andrew Kenneth John McMahon, Dan Lelescu	US-2016-0266284-A1				Published	Pelican Array Camera Module Manufacturing Cases
02530 EP	EP	138104294	Jun 14, 2013	Systems and Methods for Manufacturing Camera Modules Using Active Alignment of Lens Stack Arrays and Sensors	Jacques Duparc, Andrew Kenneth John McMahon, Dan Lelescu	2867718				Pending	Pelican Array Camera Module Manufacturing Cases

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				an Active Alignment Process						
02554 PRO	US			Systems and Methods for Using Profiles and Silhouette Edges Generated Using a Depth Map to Aid Visual Search					Unified	Pelican User Interface Cases
02555	US	14079510	Nov 13, 2013	Systems and Methods for Array Camera Focal Plane Control	Andrew Kenneth John McMahon	US-2014-0132810-A1	9143711	Sep 22, 2015	Issued	Pelican Sensor Interface/Control Cases
02555 CON	US	14855715	Sep 16, 2015	Systems and Methods for Array Camera Focal Plane Control	Andrew Kenneth John McMahon	US-2016-0249001-A1			Published	Pelican Sensor Interface/Control Cases
02556	US	14200629	Mar 7, 2014	Systems and Methods for Synthesizing High Resolution Images Using Image Deconvolution Based on Motion and Depth Information	Thang Duong Dan Lelescu		9443003	Sep 13, 2016	Issued	Pelican Image Processing Pipeline Cases

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02556, CON	US	15258947	Sep 7, 2016	Systems and Methods for Synthesizing High Resolution Images Using Image Deconvolution Based on Motion and Depth Information	Dan Lelescu, Thang Duong				Pending	
02558, PRO	US			Systems and Methods for Performing Video Autofocus Using Object Detection					Unified	Pelican Image Processing Pipeline Cases
02559	US	14199977	Mar 6, 2014	Systems and Methods for Providing an Array Projector	Jacques Duparc	US-2014-0267286-A1			Published	Pelican Array Projector Cases
02559, CON	US	15287602	Oct 6, 2016	Systems and Methods for Providing an Array Projector	Jacques Duparc				Pending	
02637	US	13931724	Jun 28, 2013	Systems and Methods for Detecting Defective Camera Arrays and Optic Arrays	Jacques Duparc, Andrew Kenneth John McMahon, Dan Lelescu, Karik Veeramani, Gabriel Molina	US-2014-0902675-A1	9169635	Aug 4, 2015	Issued	Pelican Array Camera Module Manufacturing Cases
02637, CN	CN	2013800402389	Jun 28, 2013	Systems and Methods for Detecting Defective Camera Arrays, Optic Arrays	Jacques Duparc, Andrew Kenneth John McMahon, Dan Lelescu, Karik	CN104508681A			Published	Pelican Array Camera Module Manufacturing Cases

				and Sensors	Venkannan, Gabriel Molina					
02637.DIV	US	14805412	Jul 21, 2015	Systems and Methods for Detecting Defective Camera Arrays and Optic Arrays	Jacques Duparc, Andrew Kenneth John McMahon, Dan Lelescu, Karik Venkannan, Gabriel Molina	US-2015- 0926852-A1			Published	Pelican Array Camera Module Manufacturing Cases
02637.EP	EP	138102298	Jun 28, 2013	Systems and Methods for Detecting Defective Camera Arrays, Optic Arrays and Sensors	Jacques Duparc, Andrew Kenneth John McMahon, Dan Lelescu, Karik Venkannan, Gabriel Molina	2873028			Pending	Pelican Array Camera Module Manufacturing Cases
02637.JP	JP	2015520605	Jun 28, 2013	Systems and Methods for Detecting Defective Camera Arrays, Optic Arrays and Sensors	Jacques Duparc, Andrew Kenneth John McMahon, Dan Lelescu, Karik Venkannan, Gabriel Molina	2015-534734			Published	Pelican Array Camera Module Manufacturing Cases
02637.KR	KR	1020157002308	Jun 28, 2013	Systems and Methods for Detecting Defective Camera Arrays, Optic Arrays and Sensors	Jacques Duparc, Andrew Kenneth John McMahon, Dan Lelescu, Karik Venkannan, Gabriel Molina				Pending	Pelican Array Camera Module Manufacturing Cases

02663	US	13972881	Aug 21, 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	Florin Ciurca, Karik Venkannan, Gabriel Molina, Dan Lelescu		8619082	Dec 31, 2013	Issued	Pelican Image Processing Pipeline Cases
02663 .AU	AU	2013305770	Aug 21, 2013	Systems and Methods for Parallax Detection and Correction in Images Captured Using Array Cameras	Karik Venkannan, Gabriel Molina, Dan Lelescu, Florin Ciurca				Pending	Pelican Image Processing Pipeline Cases
02663 .CA	CA	2881131	Aug 21, 2013	Systems and Methods for Parallax Detection and Correction in Images Captured Using Array Cameras	Karik Venkannan, Gabriel Molina, Dan Lelescu, Florin Ciurca				Pending	Pelican Image Processing Pipeline Cases
02663 .CN	CN	201380487355	Aug 21, 2013	Systems and Methods for Parallax Detection and Correction in Images Captured Using Array Cameras	Karik Venkannan, Gabriel Molina, Dan Lelescu, Florin Ciurca	CN104662589A			Published	Pelican Image Processing Pipeline Cases

02663.CON1	US	14144458	Dec 30, 2013	Systems and Methods for Performing Depth Estimation using Image Data from Multiple Spectral Channels	Florian Ciurcu, Karik Veekannaman, Gabriel Molina, Dan Lelescu	US-2015-0049915-A1	9123117	Jul 15, 2014	Issued	Pelican Image Processing Pipeline Cases
02663.CON2	US	14526764	Oct 28, 2014	Systems and Methods for Generating Depth Maps and Corresponding Confidence Maps Indicating Depth Estimation Reliability	Florian Ciurcu, Karik Veekannaman, Gabriel Molina, Dan Lelescu	US-2015-0049915-A1	9123117	Sep 1, 2015	Issued	Pelican Image Processing Pipeline Cases
02663.CON3	US	14729754	Jul 11, 2014	Systems and Methods for Measuring Depth Using an Array of Independently Controllable Cameras	Florian Ciurcu, Karik Veekannaman, Gabriel Molina, Dan Lelescu	US-2014-0321712-A1	9240049	Jan 19, 2016	Issued	Pelican Image Processing Pipeline Cases
02663.CON5	US	14526777	Oct 28, 2014	System and Methods for Measuring Depth Using an Array Camera Employing a Bayer Filter	Florian Ciurcu, Karik Veekannaman, Gabriel Molina, Dan Lelescu	US-2015-0042766-A1	9123118	Sep 1, 2015	Issued	Pelican Image Processing Pipeline Cases

02663 CON6	US	14526392	Oct 28, 2014	Systems and Methods for Estimating Depth and Visibility from a Reference Viewpoint for Pixels in a Set of Images Captured from Different Viewpoints	Florian Ciurea, Karik Venkatarman, Gabriel Molina, Dan Lelescu	US-2015-0049916-A1	9235900	Jan 12, 2016	Issued	Pelican Image Processing Pipeline Cases
02663 CON7	US	14526398	Oct 28, 2014	Systems and Methods for Measuring Depth in the Presence of Occlusions Using a Subset of Images	Florian Ciurea, Karik Venkatarman, Gabriel Molina, Dan Lelescu	US-2015-0049917-A1	9147254	Sep 29, 2015	Issued	Pelican Image Processing Pipeline Cases
02663 CON8	US	14526407	Oct 28, 2014	Systems and Methods for Measuring Depth Based Upon Occlusion Patterns in Images	Florian Ciurea, Karik Venkatarman, Gabriel Molina, Dan Lelescu	US-2015-0042767-A1	9129577	Sep 8, 2015	Issued	Pelican Image Processing Pipeline Cases
02663 CON9	US	14988680	Jun 5, 2016	Systems and Methods for Estimating Depth and Visibility from a Reference Viewpoint for Pixels in a Set of Images Captured from Different Viewpoints	Florian Ciurea, Karik Venkatarman, Gabriel Molina, Dan Lelescu	US-2016-0267672-A1			Published	Pelican Image Processing Pipeline Cases

02663 EP	EP	138369455	Aug 21, 2013	Systems and Methods for Parallax Detection and Correction in Images Captured Using Array Cameras	Karik Venkatarman, Gabriel Molina, Dan Lelescu, Florian Ciurca	2888729		Published	Pelican Image Processing Pipeline Cases	
02663 KR	KR	1020157006433	Aug 21, 2013	Systems and Methods for Parallax Detection and Correction in Images Captured Using Array Cameras	Karik Venkatarman, Gabriel Molina, Dan Lelescu, Florian Ciurca			Pending	Pelican Image Processing Pipeline Cases	
02663 SG	SG	11201500910R	Aug 21, 2013	Systems and Methods for Parallax Detection and Correction in Images Captured Using Array Cameras	Karik Venkatarman, Gabriel Molina, Dan Lelescu, Florian Ciurca		11201500910R	Oct 15, 2015	Issued	Pelican Image Processing Pipeline Cases
02723	US	14186871	Feb 21, 2014	Systems and Methods for Generating Compressed Light Field Representation Data Using Captured Light Fields, Array Geometry, and Parallax Information	Karik Venkatarman, Dan Lelescu, Gabriel Molina	US-2014-0232822-A1	9462164	Oct 4, 2016	Issued	Pelican Light Field Image File Format Cases
02723 CON	US	15253605	Aug 31, 2016	Systems and Methods for Generating Compressed Light Field	Karik Venkatarman, Dan Lelescu, Gabriel Molina			Pending		

				Representation Data using Captured Light Fields, Array Geometry, and Parallax Information						
02766	US	14188521	Feb 24, 2014	Thin Form Factor Computational Array Cameras and Modular Array cameras	Karik Venkatarman, Paul Gallagher, Dan Lelescu, Andrew Kenneth John McMahon, Jacques Dupure	US-2014- 0240528-A1	9374512	Jun 21, 2016	Issued	Pelican Army Camera Architecture Cases
02766 A1A	US	14188524	Feb 24, 2014	Thin Form Factor Computational Array Cameras and Modular Array Cameras	Karik Venkatarman, Paul Gallagher, Dan Lelescu, Andrew Kenneth John McMahon, Jacques Dupure	US-2014- 0240529-A1	9253580	Feb 2, 2016	Issued	Pelican Army Camera Architecture Cases
02766 A1A CON	US	15013044	Feb 1, 2016	Thin Form Factor Computational Array Cameras and Modular Array Cameras	Karik Venkatarman, Paul Gallagher, Dan Lelescu, Andrew Kenneth John McMahon, Jacques Dupure, Bedabrata Pain	US-2016- 0269651-A1			Published	Pelican Army Camera Architecture Cases

02766 CON	US	15136166	Apr 22, 2016	Thin Form Factor Computational Array Cameras and Modular Array Cameras	Kanik Venkatesh, Paul Gallagher, Dan Ielcsu, Andrew Kenneth John McMahon, Jacques Duparc	US-2014-0253738-A1	8866912	Oct 21, 2014	Issued	Pelican Army Camera Architecture Cases
02772	US	13792143	Mar 10, 2013	System and Methods for Calibration of an Array Camera Using a Single Captured Image	Robert H. Mullis	US-2014-0253738-A1				Pelican Calibration Cases
02772 CON	US	14519005	Oct 20, 2014	System and Methods for Calibration of an Array Camera	Robert H. Mullis	US-2015-0035992-A1	9124864	Sep 1, 2015	Issued	Pelican Calibration Cases
02772 CON2	US	14641651	Aug 31, 2015	System and Methods for Calibration of an Array Camera	Robert H. Mullis	US-2016-0165212-A1			Published	Pelican Calibration Cases
02814	US	14776209	Mar 11, 2014	Array Camera Architecture Implementing Quantum Film Image Sensors	Jacques Duparc	US-2016-0037097-A1			Published	Pelican Army Camera Architecture Cases
02815	US	14441503	May 7, 2015	Array Camera Architecture Implementing Quantum Dot Color Filters	Kanik Venkatesh, Jacques Duparc, Robert H. Mullis	US-2015-0312455-A1			Allowed	Pelican Army Camera Architecture Cases

02816	US	14776553	Mar 12, 2014	Systems and Methods for Reducing Motion Blur in Images or Video in Ultra Low Light with Array Cameras	Gabriel Molina	US-2016-0044252-A1			Allowed	Pelican Image Processing Pipeline Cases
02817	US	14773748	Sep 8, 2015	Systems and Methods for Measuring Scene Information While Capturing Images Using Array Cameras	Florian Ciura, Karik Venkatarman	US-2016-0044257-A1			Published	Pelican Image Processing Pipeline Cases
02818	US	14773742	Sep 8, 2015	Systems and Methods for High Dynamic Range Imaging Using Array Cameras	Florian Ciura, Karik Venkatarman	US-2016-0057332-A1			Published	Pelican Image Processing Pipeline Cases
02822	US	14145734	Dec 31, 2013	Extended Color Processing on Pelican Array Cameras	Robert H. Mullis, Dan Lelescu, Karik Venkatarman	US-2014-0267762-A1			Allowed	Pelican Array Camera Architecture Cases
02824	US	14216968	Mar 17, 2014	Systems and Methods for Stereo Imaging with Camera Arrays	Karik Venkatarman, Paul Gallagher, Ankil K. Jain, Sanyou Nisenzon	US-2014-0267653-A1	9438888	Sep 6, 2016	Issued	Pelican Array Camera Architecture Cases
02824.CON	US	14705885	May 6, 2015	Systems and Methods for Estimating Depth Using Stereo Array Cameras	Karik Venkatarman, Paul Gallagher, Ankil K. Jain, Sanyou Nisenzon	US-2015-0245013-A1			Published	Pelican Array Camera Architecture Cases

02824.CON2	US	14705903	May 6, 2015	Systems and Methods for Estimating Depth using Ad Hoc Stereo Array Cameras	Karthik Venkatarman, Paul Gallagher, Ankil K. Jain, Semyon Nisenzon	US-2015-0237329-A1			Published	Pelican Army Camera Architecture Cases
02824.EP	EP	147630875	Mar 17, 2014	Systems and Methods for Stereo Imaging with Camera Arrays	Karthik Venkatarman, Paul Gallagher, Ankil K. Jain, Semyon Nisenzon	2973476			Published	Pelican Army Camera Architecture Cases
02824.JP	JP	2016503445	Mar 17, 2014	Systems and Methods for Stereo Imaging with Camera Arrays	Karthik Venkatarman, Paul Gallagher, Ankil K. Jain, Semyon Nisenzon	2016-524125			Published	Pelican Army Camera Architecture Cases
02835	US	14207254	Mar 12, 2014	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	Karthik Venkatarman, Semyon Nisenzon, Priyam Chatterjee, Gabriel Molina	US-2014-0267243-A1			Allowed	Pelican Image Processing Pipeline Cases
02865	US	14205708	Mar 10, 2014	System and Methods for Calibration of an Array Camera	Robert H. Mollis	US-2014-0285675-A1	9124831	Sep 1, 2015	Issued	Pelican Calibration Cases

02865.CON	US	14811694	Aug. 31, 2015	System and Methods for Calibration of an Array Camera	Robert H. Mullis	US-2016-0163051-A1			Published	Pelican Calibration Cases
02866	US	14213697	Mar 14, 2014	Systems and Methods for Photometric Normalization in Array Cameras	Andrew Kenneth John McMahon, Dan Lelescu, Florian Ciurca	US-2014-0267829-A1	9100786	Aug 4, 2015	Issued	Pelican Calibration Cases
02866.CON	US	14814291	Jul 30, 2015	Systems and Methods for Photometric Normalization in Array Cameras	Andrew Kenneth John McMahon, Dan Lelescu, Florian Ciurca	US-2016-0198096-A1			Published	Pelican Calibration Cases
02871	US	13802507	Mar 13, 2015	Systems and Methods for Controlling Aliasing in Images Captured by an Array Camera for use in Super-Resolution Processing	Dan Lelescu, Karik Venkatarman	US-2014-0267890-A1	9106784	Aug 11, 2015	Issued	Pelican Array Camera Architecture Cases
02871.CON	US	14814297	Jul 30, 2015	Systems and Methods for Controlling Aliasing in Images Captured by an Array Camera for use in Super-Resolution Processing	Dan Lelescu, Karik Venkatarman	US-2016-0195733-A1			Published	Pelican Array Camera Architecture Cases

03119	US	14555279	Nov 26, 2014	Array Camera Configurations Incorporating Multiple Constituent Array Cameras	Karik Venkataraman, Jacques Dupure	US-2015-0146029-A1	9426361	Aug 23, 2016	Issued	Pelican Army Camera Architecture Cases
03119 CON	US	14555368	Nov 26, 2014	Array Camera Configurations Incorporating Constituent Array Cameras and Constituent Cameras	Karik Venkataraman, Jacques Dupure	US-2015-0146030-A1	9456134	Sep 27, 2016	Issued	Pelican Army Camera Architecture Cases
03119 CON2	US	14574830	Sep 23, 2016	Array Camera Configurations Incorporating Constituent Array Cameras and Constituent Cameras	Karik Venkataraman, Jacques Dupure				Pending	
03119 EP	EP	148654635	Nov 26, 2014	Array Camera Configurations Incorporating Multiple Constituent Array Cameras	Karik Venkataraman, Jacques Dupure	3075140			Published	Pelican Army Camera Architecture Cases
03119 PCT	WO	PCT/US2014/067740	Nov 26, 2014	Array Camera Configurations Incorporating Multiple Constituent Array Cameras	Karik Venkataraman, Jacques Dupure	WO 2015/081279			Published	Pelican Army Camera Architecture Cases
03208	US	14508979	Sep 29, 2014	Systems and Methods for Depth-Assisted Perspective Distortion Correction	Samuel Yang, Srikanth Manohar, Dan Lelescu, Karik Venkataraman	US-2015-0091900-A1			Published	Pelican Image Processing Pipeline Cases

03208.PCT	WO	PCT/US2014/058142	Sep 29, 2014	Systems and Methods for Depth-Assisted Perspective Distortion Correction	Samuel Yang, Sriharsh Manabur, Dan Lelescu, Karthik Venkatesan	WO 2015/048694			Pending	Pelican Image Processing Pipeline Cases
03264	US	14536537	Nov 7, 2014	Methods of Manufacturing Array Camera Modules Incorporating Independently Aligned Lens Stacks	Errol Mark Rodda, Jacques Duparc	US-2015-0122411-A1	9183276	Nov 10, 2015	Issued	Pelican Array Camera Architecture Cases
03264.CON	US	14536552	Nov 7, 2014	Array Camera Modules Incorporating Independently Aligned Lens Stacks	Errol Mark Rodda, Jacques Duparc	US-2015-0124151-A1	9264592	Feb 16, 2016	Issued	Pelican Array Camera Architecture Cases
03264.CON2	US	14536554	Nov 7, 2014	Array Cameras Incorporating Independently Aligned Lens Stacks	Errol Mark Rodda, Jacques Duparc	US-2015-0124113-A1	9426243	Aug 23, 2016	Issued	Pelican Array Camera Architecture Cases
03264.CON3	US	15242405	Aug 19, 2016	Array Cameras Incorporating Independently Aligned Lens Stacks	Errol Mark Rodda, Jacques Duparc				Pending	
03264.EP	EP	148601032	Nov 7, 2014	Methods of Manufacturing Array Camera Modules Incorporating Independently Aligned Lens Stacks	Errol Mark Rodda, Jacques Duparc	3066690			Published	Pelican Array Camera Architecture Cases

03264.PCT	WO	PCT/US2014/064693	Nov 7, 2014	Methods of Manufacturing Array Camera Modules Incorporating Independently Aligned Lens Stacks	Enrol Mark Rodda, Jacques Dupare	WO 2015/070105			Published	Pelican Array Camera Architecture Cases
03271	US	14547048	Nov 18, 2014	Systems and Methods for Estimating Depth from Projected Texture using Camera Arrays	Kanik Venkannamm, Jacques Dupare	US-2015-0158346-A1			Published	Pelican Array Camera Architecture Cases
03271.PCT	WO	PCT/US2014/066229	Nov 18, 2014	Systems and Methods for Estimating Depth from Projected Texture using Camera Arrays	Kanik Venkannamm, Jacques Dupare	WO 2015/074078			Pending	Pelican Array Camera Architecture Cases
03336	US	14484134	Sep 11, 2014	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	Jacques Dupare	US-2015-0288661-A1	9247117	Jun 26, 2016	Issued	Pelican Optics Cases
03450	US	14642657	Mar 9, 2015	System and Methods for Depth Regularization and Semi-automatic	Minohar Srikant, Ravi Ramamoorthi, Kanik Venkannamm, Piyum	US-2015-0254868-A1			Published	Pelican Image Processing Pipeline Cases

03450 PCT	WO	PCTUS2015019529	Mar 9, 2015	System and Methods for Depth Regularization and Semantic Interactive Mapping Using RGB-D Images	Manohar Srikant, Ravi Ramamoorthi, Karthik Venkatarman, Prayam Chatterjee	WO 2015/134996	Published	Pelican Image Processing Pipeline Cases
03505	US	14593369	Jan 9, 2015	Array Cameras Including an Array Camera Module Augmented with a Separate Camera	Karthik Venkatarman, Paul Gallagher, Ankur K. Jain, Sanyou Nisenzon, Dan Lelescu, Florian Ciurca, Gabriel Molina	US-2015-0161798-A1	Published	Pelican Array Camera Architecture Cases
03505 CIP	US	1472447	May 28, 2015	Autofocus System for a Conventional Camera That Uses Depth Information from an Array Camera	Karthik Venkatarman, Paul Gallagher, Ankur K. Jain, Sanyou Nisenzon, Dan Lelescu, Florian Ciurca, Gabriel Molina	US-2015-0264337-A1	Published	Pelican Array Camera Architecture Cases
03505 PCT	WO	PCTUS2015012467	May 26, 2015	Autofocus System for a Conventional Camera That Uses Depth Information from an Array Camera	Karthik Venkatarman, Dan Lelescu, Florian Ciurca, Gabriel Molina, Paul Gallagher, Sanyou	WO 2015/183824	Published	Pelican Array Camera Architecture Cases

03533	US	14361925	Dec 5, 2014	Army Camera and Army Camera Modules Including Spectral Filters Disposed Outside of a Constituent Image Sensor	Nilsen, Ankit K. Jain	US-2015-0373261-A1			Allowed	Pelican Optics Cases
03616.PRO2	US	62219528	Sep 16, 2015	Optical Systems for Cameras Incorporating Lens Elements Formed Separately and Subsequently Bonded to Low CTE Substrates	Errol Mark Rodda, Jacques Duparc				Pending	Pelican Optics Cases
03616.PRO3	US	62394644	Sep 14, 2016	Optical Systems for Cameras Incorporating Lens Elements Formed Separately and Subsequently Bonded to Low CTE Substrates	Errol Mark Rodda, Jacques Duparc				Pending	
03636.PCT	WO	PCT/US2015053013	Sep 29, 2015	Systems and Methods for Dynamic Calibration of Army Camera	Ferdin Curca, Dan Lelescu, Piyam Chatterjee	WO 2016/054089			Published	Pelican Calibration Cases

03663	US	14696346	Apr 17, 2015	Systems and Methods for Performing High Speed Video Capture and Depth Estimation Using Array Cameras	Kantik Venkataraman, Yuseong Huang, Ankit K Jain, Priyanshu Chatterjee				Pending	Pelican Image Processing Pipeline Cases
03663 PCT	WO	PCT/US2015/026545	Apr 17, 2015	Systems and Methods for Performing High Speed Video Capture and Depth Estimation Using Array Cameras	Kantik Venkataraman, Yuseong Huang, Ankit K Jain, Priyanshu Chatterjee				Pending	Pelican Image Processing Pipeline Cases
03674 PRO	US			Compensation of Temperature-Change-Related Effects in Array Cameras that Employ Lens Stack Arrays, in which Camera Intrinsic Parameters Show Strong Temperature Dependencies	Jacques Dupire, Robert H. Mullis, Karik Venkataraman				Unified	
03782 PRO 01	US			Efficient Methods for Parallax/Depth Estimation for Computation Array Camera's on	Nageswari Rao Gangadh, Larry Bank				Unified	

03911	US	14133186	Apr 19, 2016	Multi-Baseline Camera Array System Architecture for Depth Augmentation in VR/AR Applications	Karrik Venkatarman, Dan Lelescu, Jacques Dupure				Pending	Pelican Army Camera Architecture Cases
03911.PCT	WO	PCT/US2016/028317	Apr 19, 2016	Multi-Baseline Camera Array System Architecture for Depth Augmentation in VR/AR Applications	Karrik Venkatarman, Dan Lelescu, Jacques Dupure				Pending	Pelican Army Camera Architecture Cases

Patents

FILE NUMBER	COUNTRY	SERIAL NUMBER	FILING DATE	TITLE	INVENTORS (FIRST NAME, LAST NAME)	PUBLICATION NUMBER	PATENT NUMBER	GRANT DATE	STATUS	CLUSTER NAME
01579.PCT	WO	PCT/US2009/04687	May 20, 2009	Capturing and Processing of Images Using Monolithic Camera Array with Heterogeneous Images	Karrik Venkatarman, Ananddeep S. Jabin, Robert H. Mullis, Jr.				Lapsed	Pelican Army Camera Architecture Cases

01579 PRO	US	61054694	Mar 20, 2008	Monolithic Integrated Array of Heterogeneous Image Sensors	Robert H Mullis, Jr., Karthi Venkatarman, Ananddeep S. Jothi, Stephen J. Bissel					Expired	
01583	US	61281662	Nov 20, 2009	Capturing and Processing of Images Using Monolithic Camera Array with Heterogeneous Imagers	Karthi Venkatarman, Ananddeep S. Jothi, Robert H Mullis, Jr., Jacques Duparre, Sheng-Ching-Feng Hu					Lapsed	
01625	US	61263339	Nov 20, 2009	Capturing and Processing of Images Using Monolithic Camera Array with Heterogeneous Imagers	Karthi Venkatarman, Ananddeep S. Jothi, Robert H Mullis, Jr., Jacques Duparre, Sheng-Ching-Feng Hu					Lapsed	
01637	US	61314776	Mar 17, 2010	Fabrication Process for Manufacturing Image Lens Array's	Jacques Duparre					Lapsed	
01660 AU	AU	2011343863	Dec 14, 2011	Systems and Methods for Synthesizing High Resolution Images Using Super-Resolution Processes	Dan Lelescu, Gabriel Molim, Karthi Venkatarman					Lapsed	Pelican Image Processing Pipeline Cases
01660 PCT	WO	PCT/US104921	Dec 14, 2011	System and Methods for Synthesizing High Resolution Images Using Super-Resolution Processes	Dan Lelescu, Gabriel Molim, Karthi Venkatarman	WO 2012/082904				Lapsed	Pelican Image Processing Pipeline Cases
01661	US	61334011	May 12, 2010	Architectures for System On Chip	Balrajna Pain, Andrew Kenneth					Lapsed	

01883.PCT	WO	PCT/US100157661	Nov 22, 2010	Array Cameras	John McVadon	WO 2011/063347			Lapsed	Pelican Array Camera Architecture Cases
01883.PCT	WO	PCT/US10037661	Nov 22, 2010	Capturing and Processing of Images Using Monolithic Camera Array with Heterogeneous Imaging	Karik Venkatesan, Ananddeep S. Jebi, Robert H Mullis, Jr., Jacques Duparre, Shane Chung-Feng Hu	WO 2011/063347			Lapsed	Pelican Optics Cases
02014.CON	US	13445531	Apr 12, 2012	Fabrication Process for Mastering Imaging Lens Arrays	Jacques Duparre	US-2012-0198672-A1			Abandoned	Pelican Optics Cases
02014.PCT	WO	PCT/US1128835	Mar 17, 2011	Fabrication Process for Mastering Image Lens Arrays	Jacques Duparre	WO 2011/116203			Lapsed	Pelican Optics Cases
02075	US	1316797	May 12, 2011	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	Bedhran Pann, Andrew Kenneth John McVadon	US-2012-0012748-A1			Abandoned	Pelican Sensor Architecture Cases
02075.PCT	WO	PCT/US11036349	May 12, 2011	Architectures for Imager Arrays and Array Cameras	Bedhran Pann, Andrew Kenneth John McVadon	WO 2011/143501			Lapsed	Pelican Sensor Architecture Cases
02075.SG	SG	2012082699	May 12, 2011	Architectures for Imager Arrays and Array Cameras	Bedhran Pann, Andrew Kenneth John McVadon				Abandoned	Pelican Sensor Architecture Cases

02088.PCT	WO	PCT/US2012037670	May 11, 2012	Systems and Methods for Transmitting Array Camera Data	Andrew Kenneth John McMahon	WO 2012/155119			Lapsed	Pelican Sensor Interface/Control Cases
02088.PRO	US	61484920	May 11, 2011	Systems and Methods for Transmitting Array Camera Data	Andrew Kenneth John McMahon				Lapsed	Pelican Sensor Interface/Control Cases
02101.CON	US	14389263	Jan 5, 2015	Imager Array Interfaces	Andrew Kenneth John McMahon	US-2015-0156414-A1			Abandoned	
02115.DIV2	US	14456813	Aug 11, 2014	Optical Arrangements for Use with an Array Camera	Jacques Duparre				Abandoned	Pelican Optics Cases
02115.PCT	WO	PCT/US2012044014	Jun 25, 2012	Optical Arrangements for Use with an Array Camera	Jacques Duparre	WO 2013/093276			Expired	Pelican Optics Cases
02115.PRO	US	61502158	Jun 28, 2011	Optical Arrangements for Use with an Array Camera	Jacques Duparre				Lapsed	Pelican Optics Cases
02115CIP.PCT	WO	PCT/US201428447	Mar 14, 2014	Optical Arrangements for Use with an Array Camera	Jacques Duparre, Dan Lelescu, Karik Venkataraman	WO 2014/141157			Lapsed	Pelican Optics Cases
02137	US	13630039	Oct 11, 2012	Lens Stack Arrays Including Adaptive Optical Elements	Jacques Duparre	US-2013-0088637-A1			Abandoned	Pelican Optics Cases
02137.JP	JP	2014535886	Oct 11, 2012	Lens Stack Arrays Including Adaptive Optical Elements	Jacques Duparre	2014-530581			Abandoned	Pelican Optics Cases
02137.PCT	WO	PCT/US1259813	Oct 11, 2012	Lens Stack Arrays Including Adaptive Optical Elements	Jacques Duparre	WO 2013/055960			Lapsed	Pelican Optics Cases
02137.PRO	US	61545929	Oct 11, 2011	Lens Stack Arrays Including Adaptive Optical Elements	Jacques Duparre				Lapsed	Pelican Optics Cases

602371.PHO	US	61536500	Sep 19, 2011	Aliasing Enhanced Super Resolution Processing Through Use of Pixel Apertures	Kanik Venkataranum, Dan Lelescu, Jacques Dupont, Bedehra Pain, Srice Nayar				Lapsed	
602371A	US	14102495	Dec 10, 2013	Systems and Methods for Controlling Aliasing in Images Captured by an Array Camera for use in Super Resolution Processing Using Pixel Apertures	Kanik Venkataranum, Bedehra Pain, Dan Lelescu	US-2014-0098206-A1			Abandoned	Pelican Array Camera Architecture Cases
602371A.PCT	WO	PCT/US1256151	Sep 19, 2012	Systems and Methods for Controlling Aliasing in Images Captured by an Array Camera for use in Super Resolution Processing Using Pixel Apertures	Kanik Venkataranum, Dan Lelescu, Bedehra Pain, Srice Nayar	WO2013/043751			Lapsed	Pelican Array Camera Architecture Cases
602371A.PCT	WO	PCT/US1256151	Sep 19, 2012	Systems and Methods for Controlling Aliasing in Images Captured by an Array Camera for use in Super Resolution Processing Using Pixel Apertures	Kanik Venkataranum, Dan Lelescu, Bedehra Pain, Srice Nayar	WO2013/043751			Lapsed	Pelican Optics Cases
602371B	US	13623091	Sep 19, 2012	Systems and Methods for Determining Depth From Multiple Views of a Scene	Kanik Venkataranum, Dan Lelescu, Srice Nayar	US-2013-0070060-A1			Abandoned	Pelican Image Processing Pipeline Cases

				that include Aliasing Using Hypothesized Fusion						
02371B CON	US	14931561	Nov 5, 2015	Systems and Methods for Determining Depth From Multiple Views of a Scene that include Aliasing Using Hypothesized Fusion	Priyanshu Chatterjee, Gabriel Mojica, Dan Lelescu				Abandoned	Pelican Array Camera Architecture Cases
02371B PCT	WO	PCT/US2012036166	Sep 19, 2012	Systems and Methods for Determining Depth From Multiple Views of a Scene that include Aliasing Using Hypothesized Fusion	Kanik Venkataranum, Dan Lelescu, Jacques Dupire, Bodhendra Paul, Suresh Nagar	WO2013/043761			Lapsed	Pelican Image Processing Pipeline Cases
02376 PRO	US	61340188	Sep 28, 2011	JPEG-DX: A Backwards- compatible, Dynamic Focus Extension to JPEG	Kanik Venkataranum, Souryon Nischazon				Lapsed	Pelican Light Field Image File Format Cases
02376AB PCT	WO	PCT/US1238093	Sep 28, 2012	Systems and Methods for Encoding and Decoding Light Field Image Files	Kanik Venkataranum, Souryon Nischazon	WO2013/043699			Lapsed	Pelican Light Field Image File Format Cases
02407 CON2	US	14883121	Oct 14, 2015	Systems and Methods for the Manipulation of Captured Light Field Image Data	Andrew Kenneth John McMahon, Kanik Venkataranum, Robert H Mullis, Jr.				Abandoned	Pelican User Interface Cases

02407 PCT	WO	PCT/US2013/027146	Feb 21, 2013	Systems and Methods for the Manipulation of Captured Light Field Image Data	Andrew Kenneth John McMahon, Karik Venkataraman, Robert H Mullis, Jr.	WO 2013/126578			Lapsed	Pelican User Interface Cases
02407 PRO	US	61601413	Feb 21, 2012	Method and Apparatus for Manipulation of Light Field Images	Andrew Kenneth John McMahon, Karik Venkataraman				Lapsed	Pelican User Interface Cases
02408	US	14042275	Sep 30, 2013	Generating Images from Light Fields Utilizing Virtual Viewpoints	Serjyon Nisenzon, Ankit K Jain	US-2014-0092281-A1			Abandoned	Pelican User Interface Cases
02408 CN	CN	2013800505495	Sep 30, 2013	Generating Images from Light Fields Utilizing Virtual Viewpoints	Ankit K Jain, Serjyon Nisenzon	CN104685860A			Lapsed	Pelican User Interface Cases
02408 PCT	WO	PCT/US13/02720	Sep 30, 2013	Generating Images from Light Fields Utilizing Virtual Viewpoints	Ankit K Jain, Serjyon Nisenzon	WO 2014/052974			Expired	Pelican User Interface Cases
02408 PRO	US	61707691	Sep 28, 2012	Synthesizing Images From Light Fields Utilizing Virtual Viewpoints	Ankit K Jain, Serjyon Nisenzon				Lapsed	Pelican User Interface Cases
02409 CON	US	14967742	Dec 14, 2013	Systems and Methods for Correcting User Identified Artifacts in Light Field Images	Karik Venkataraman, Florian Curcea				Abandoned	Pelican User Interface Cases
02409 PCT	WO	PCT/US2013/059991	Sep 16, 2013	Systems and Methods for Correcting User Identified Artifacts in Light Field Images	Karik Venkataraman, Florian Curcea	WO 2014/043641			Expired	Pelican User Interface Cases

02409.PRO	US	61701044	Sep 14, 2012	Method and Apparatus for Selection, Detection, and Correction of Depth Related Artifacts in Light Field Images	Kanik Venkataraman, Florian Cluser				Lapsed	Pelican User Interface Cases
02472	US	13975159	Aug 21, 2013	Feature Based High Resolution Motion Estimation from Low Resolution Images, Captured Using an Array Source	Dan Lelescu, Ankit K Jain	US-2014-0055632-A1			Abandoned	Pelican Image Processing Pipeline Cases
02472.PCT	WO	PCT/US2013/05502	Aug 21, 2013	Feature Based High Resolution Motion Estimation from Low Resolution Images, Captured Using an Array Source	Dan Lelescu, Ankit K Jain	WO 2014/032020			Expired	Pelican Image Processing Pipeline Cases
02472.PRO	US	61692547	Aug 21, 2012	Feature Based High Resolution Motion Estimation from Low Resolution Images, Captured Using an Array Source	Dan Lelescu, Ankit K Jain				Lapsed	Pelican Image Processing Pipeline Cases
02480	US	13761040	Feb 6, 2013	Systems and Methods for Extending Dynamic Range of Image Arrays by Controlling Pixel Array Gain	Andrew Kenneth John McWhorter, Paul Gallagher, Kanik Venkataraman	US-2013-0147979-A1			Abandoned	Pelican Sensor Architecture Cases
02480.CON	US	14962943	Dec 8, 2015	Systems and Methods for Extending Dynamic Range of Image Arrays by	Andrew Kenneth John McWhorter, Paul Gallagher, Kanik Venkataraman				Abandoned	Pelican Sensor Architecture Cases

				Controlling Pixel Analog Gain							
02480.PCT	WO	PCT/US2013024987	Feb 6, 2013	Systems and Methods for Extending Dynamic Range of Integer Arrays by Controlling Pixel Analog Gain	Andrew Kenneth John McMahon, Paul Gallagher, Karik Venkataraman	WO 2013/119706			Expired		
02480.PRO	US	61595611	Feb 6, 2012	Systems and Methods for Extending Dynamic Range of Integer Arrays by Controlling Pixel Analog Gain	Andrew Kenneth John McMahon				Lapsed		Pelican Image Processing Pipeline Cases
02480.PRO	US	61595611	Feb 6, 2012	Systems and Methods for Extending Dynamic Range of Integer Arrays by Controlling Pixel Analog Gain	Andrew Kenneth John McMahon				Lapsed		Pelican Sensor Architecture Cases
02513.CON	US	14867845	Oct 20, 2015	Systems and Methods for Image Data Compression	Andrew Kenneth John McMahon, Karik Venkataraman				Abandoned		Pelican Sensor Interface/Control Cases
02513.PRO	US	61776751	Mar 11, 2013	Systems and Methods for Image Data Compression	Andrew Kenneth John McMahon, Karik Venkataraman				Lapsed		
02525.PCT	WO	PCT/US2013039155	May 1, 2013	Camera Modules Patterned with pi Filter Groups	Sanyun Nisenzon, Karik Venkataraman	WO 2013/166215			Expired		Pelican Array Camera Architecture Cases
02525.PRO	US	61641165	Mar 1, 2012	Camera Modules Patterned with pi Filter Groups	Sanyun Nisenzon, Karik Venkataraman				Lapsed		Pelican Array Camera Architecture Cases

02530	US	13782920	Mar 1, 2013	Systems and Methods for Manufacturing Camera Modules Using Active Alignment of Lens Stack Arrays and Sensors	Jacques Duparre, Andrew Kenneth John McMahon, Dan Lelescu	US-2014-0002674-A1			Abandoned	Pelican Array Camera Module Manufacturing Cases
02530 PCT	WO	PCTUS2013046002	Jun 14, 2013	Systems and Methods for Manufacturing Camera Modules Using Active Alignment of Lens Stack Arrays and Sensors	Jacques Duparre, Andrew Kenneth John McMahon, Dan Lelescu	WO2014004134			Expired	Pelican Array Camera Module Manufacturing Cases
02530 PRO	US	61666852	Jun 30, 2012	Systems and Methods for Manufacturing Camera Modules Using Active Alignment of Lens Stack Arrays and Sensors	Jacques Duparre, Andrew Kenneth John McMahon, Dan Lelescu				Lapsed	Pelican Array Camera Module Manufacturing Cases
02531 PRO	US	61772443	Mar 4, 2013	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	Jacques Duparre				Lapsed	

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02532.PCT	WO	PCT/US2014/025904	Mar 13, 2014	Systems and Methods for Using Alignment to Increase Sampling Diversity of Cameras in an Array Camera Module	Jacques Duparre, Dan Lelescu	WO 2014/160142			Lapsed	Pelican Array Camera Module Manufacturing Cases
02532.PRO	US	61780436	Mar 13, 2013	Systems and Methods for Using Alignment to Increase Sampling Diversity of Cameras in an Array Camera Module	Jacques Duparre, Dan Lelescu				Lapsed	
02555.PCT	WO	PCT/US2013/069932	Nov 13, 2013	Systems and Methods for Army Camera Focal Plane Control	Andrew Kenneth John McMahon				Expired	Pelican Sensor Interface/Control Cases
02555.PRO	US	61725934	Nov 13, 2012	Systems and Methods for Army Camera Focal Plane Control	Andrew Kenneth John McMahon				Lapsed	Pelican Sensor Interface/Control Cases
02555.PRO.01	US	61772315	Mar 4, 2013	Systems and Methods for Army Camera Focal Plane Control	Andrew Kenneth John McMahon				Lapsed	
02556.PRO	US	61788078	Mar 15, 2013	Systems and Methods for Synthesizing High Resolution Images using Image Deconvolution Based on Motion and Depth Information	Thang Duong, Dan Lelescu				Lapsed	Pelican Image Processing Pipeline Cases
02559.PCT	WO	PCT/US2014/021439	Mar 6, 2014	Systems and Methods for Providing an Array Projector	Jacques Duparre	WO 2014/149902			Lapsed	Pelican Array Projector Cases

02659 PRO	US	61801733	Mar 15, 2013	Systems and Methods for Providing an Array Projector	Jacques Duparc				Lapsed	
02637 PCT	WO	PCT/US2013/048772	Jun 28, 2013	Systems and Methods for Detecting Defective Camera Arrays, Optic Arrays and Sensors	Jacques Duparc, Andrew Kenneth John McMahon, Dan Lelescu, Karthi Venkataraman, Gabriel Molim	WO 2014/005123			Expired	Pelican Army Camera Module Manufacturing Cases
02637 PRO	US	61665724	Jun 28, 2012	Systems and Methods for Screening Lenses for use in Array Cameras Based on a Modulation Transfer Function Screening Using an ROI-Based Criterion for the Overall Array	Jacques Duparc, Andrew Kenneth John McMahon, Dan Lelescu, Karthi Venkataraman, Gabriel Molim				Lapsed	Pelican Army Camera Module Manufacturing Cases
02637 PRO	US	61665724	Jun 28, 2012	Systems and Methods for Screening Lenses for use in Array Cameras Based on a Modulation Transfer Function Screening Using an ROI-Based Criterion for the Overall Array	Jacques Duparc, Andrew Kenneth John McMahon, Dan Lelescu, Karthi Venkataraman, Gabriel Molim				Lapsed	Pelican Optics Cases
02663 PCT	WO	PCT/US13/06065	Aug 21, 2013	Systems and Methods for Parallel Detection and Correction in Images Captured Using Array Cameras	Karthi Venkataraman, Gabriel Molim, Dan Lelescu, Florian Ciura	WO 2014/031795			Expired	Pelican Image Processing Pipeline Cases

02663.PCT5	WO	PCT/US1336053	Aug 21, 2013	Systems and Methods for Parallax Detection and Correction in Images Captured Using Array Cameras	Karik Venkatarman, Gabriel Molina, Dan Lelescu, Florian Ciurca				Abandoned	Pelican Image Processing Pipeline Cases
02663.PRO	US	61691666	Aug 21, 2012	Systems and Methods for Parallax Detection and Correction in Images Captured Using Array Cameras	Karik Venkatarman, Gabriel Molina, Dan Lelescu, Florian Ciurca				Lapsed	Pelican Image Processing Pipeline Cases
02663.PRO.01	US	61780906	Mar 13, 2013	Systems and Methods for Parallax Detection and Correction in Images Captured Using Array Cameras	Karik Venkatarman, Gabriel Molina, Dan Lelescu, Florian Ciurca				Lapsed	Pelican Image Processing Pipeline Cases
02723.PCT	WO	PCT/US2014017766	Feb 21, 2014	Systems and Methods for Generating Compressed Light Field Representation Data Using Captured Light Fields, Array Geometry, and Parallax	Karik Venkatarman, Dan Lelescu, Gabriel Molina	WO 2014/130849			Lapsed	Pelican Light Field Image File Format Cases
02723.PRO	US	61767520	Feb 21, 2013	Information Systems and Methods for Generating Captured Light Field Image Data Using Captured Light Fields	Karik Venkatarman, Dan Lelescu, Gabriel Molina				Lapsed	

02723.PRO.01	US	61786976	Mar 15, 2013	Systems and Methods for Generating Captured Light Field Image Data Using Captured Light Fields	Karik Venkataraman, Dan Lelescu, Gabriel Mofinu					Lapsed	Pelican Array Camera Architecture Cases
02766.PCT	WO	PCT/US2014/018084	Feb 24, 2014	Thin Form Factor Computational Array Cameras and Modular Array Cameras	Karik Venkataraman, Paul Gallagher, Dan Lelescu, Andrew Kenneth John McManon, Jacques Duparre	WO 2014/153974				Lapsed	Pelican Array Camera Architecture Cases
02766.PRO	US	61786523	Feb 24, 2013	Thin form factor Computational Array Cameras using Non-monoolithic Assemblies	Karik Venkataraman, Paul Gallagher, Dan Lelescu, Andrew Kenneth John McManon, Jacques Duparre					Lapsed	Pelican Array Camera Architecture Cases
02814.PCT	WO	PCT/US2014/023762	Mar 11, 2014	Array Camera Architecture Implementing Quantum Film	Jacques Duparre	WO 2014/164909				Lapsed	Pelican Array Camera Architecture Cases
02814.PRO	US	61780479	Mar 13, 2013	Image Sensors Array Camera Architecture Implementing Quantum Film Image Sensors	Jacques Duparre					Lapsed	
02815.PCT	WO	PCT/US2014/024407	Mar 12, 2014	Array Camera Architecture Implementing Quantum Dot Color Filters	Karik Venkataraman, Jacques Duparre, Robert H. Mullis	WO 2014/150856				Lapsed	Pelican Opus Cases
02815.PRO	US	61786533	Mar 15, 2013	Array Camera Architecture Implementing Quantum Dot Color Filters	Karik Venkataraman, Jacques Duparre, Robert H. Mullis					Lapsed	

62816.PCT	WO	PCT/US2014/025100	Mar 12, 2014	Systems and Methods for Reducing Motion Blur in Images or Video in Ultra Low Light with Array Cameras	Gabriel Molim	WO 2014/159779			Lapsed	Pelican Image Processing Pipeline Cases
62816.PRO	US	61783441	Mar 14, 2013	Systems and Methods for Reducing Motion Blur in Images or Video in Ultra Low Light with Array Cameras	Gabriel Molim				Lapsed	
62817.PCT	WO	PCT/US2014/022118	Mar 7, 2014	Systems and Methods for Measuring Scene Information While Capturing Images Using Array Cameras	Florlan Cuera, Karthi Venkataraman	WO 2014/136925			Lapsed	Pelican Image Processing Pipeline Cases
62817.PRO	US	61776395	Mar 8, 2013	Systems and Methods for Measuring Scene Information While Capturing Images Using Array Cameras	Florlan Cuera, Karthi Venkataraman				Lapsed	
62818.PCT	WO	PCT/US2014/022123	Mar 7, 2014	Systems and Methods for High Dynamic Range Imaging Using Array Cameras	Florlan Cuera, Karthi Venkataraman	WO 2014/136927			Lapsed	Pelican Image Processing Pipeline Cases
62818.PRO	US	61786218	Mar 14, 2013	Systems and Methods for High Dynamic Range Imaging Using Array Cameras	Florlan Cuera, Karthi Venkataraman				Lapsed	
62822.PCT	WO	PCT/US2014/018116	Feb 24, 2014	Extended Color Processing on Pelican Array	Robert H. Mullis, Dan Lelescu, Karthi	WO 2014/149403			Lapsed	Pelican Array Camera Architecture

				Cameras	Venkataraman						Cases
02822.PRO	US	61798602	Mar 15, 2013	Extended Color Processing on Pelican Array Camera	Robert H. Mullis, Dan Lelescu, Karik Venkataraman				Lapsed		Pelican Array Camera Architecture Cases
02824.PCT	WO	PCT/US2014030692	Mar 17, 2014	Systems and Methods for Stereo Imaging with Camera Arrays	Karik Venkataraman, Paul Gallagher, Anil K. Jain, Sanyou Nisenzon	WO 2014/145856			Lapsed		Pelican Array Camera Architecture Cases
02824.PRO	US	61798673	Mar 15, 2013	Systems and Methods for Stereo Imaging with Camera Arrays	Karik Venkataraman, Paul Gallagher, Anil K. Jain, Sanyou Nisenzon				Lapsed		Pelican Array Camera Architecture Cases
02835.PCT	WO	PCT/US2014024947	Mar 12, 2014	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	Karik Venkataraman, Sanyou Nisenzon, Priyam Chatterjee, Gabriel Molina	WO 2014/165244			Lapsed		Pelican Image Processing Pipeline Cases
02835.PRO	US	61786974	Mar 13, 2013	Systems and Methods for Synthesizing Images from Image Data Captured by an Array Camera Using Depth Maps in Which Depth Estimation Precision and Spatial Resolution Vary	Karik Venkataraman, Sanyou Nisenzon, Priyam Chatterjee, Gabriel Molina				Lapsed		Pelican Image Processing Pipeline Cases

02865.PCT	WO	PCT/US2014/022774	Mar 10, 2014	System and Methods for Calibration of an Array Camera	Robert H. Mullis	WO 2014/164580			Lapsed	Pelican Calibration Cases
02865.PRO	US	61780748	Mar 13, 2013	Systems and Methods for Calibration of an Array Camera	Robert H. Mullis				Lapsed	Pelican Calibration Cases
02866.PCT	WO	PCT/US2014/029052	Mar 14, 2014	Systems and Methods for Photometric Normalization in Array Cameras	Andrew Kenneth John McMahon, Dan Lelescu, Florian Ciura	WO 2014/157098			Lapsed	Pelican Calibration Cases
02866.PRO	US	61785797	Mar 14, 2013	Systems and Methods for Photometric Normalization in Array Cameras	Andrew Kenneth John McMahon, Dan Lelescu, Florian Ciura				Lapsed	Pelican Calibration Cases
02871.PCT	WO	PCT/US2014/024903	Mar 12, 2014	Systems and Methods for Controlling Abusing in Images Captured by an Array Camera for use in Super-Resolution Processing	Dan Lelescu, Karthi Venkataraman	WO 2014/159721			Lapsed	Pelican Array Camera Architecture Cases
03119.PRO	US	61909308	Nov 26, 2013	Stereo Array Configuration for a Zoom Camera	Karthi Venkataraman, Jacques Dupont				Expired	Pelican Array Camera Architecture Cases
03208.PRO	US	61885927	Sep 27, 2013	Automatic Depth Assisted Face Perspective Correction for Mobile Device Cameras	Samuel Yang, Srikanth Manohar, Dan Lelescu, Karthi Venkataraman				Expired	Pelican Image Processing Pipeline Cases
03264.PRO	US	61901378	Nov 7, 2013	Non-Monolithic 3 x 3 Array Module with Discrete Sensors and	Erol Mark Kodba, Jacques Dupont				Expired	Pelican Array Camera Architecture Cases

				Discrete Lenses							
03264.PRO.01	US	61904947	Nov 15, 2013	Array Camera Modules and Methods of Manufacturing Array Camera Modules	Errol Mark Rodin, Jacques Duparre			Expired	Pelican Army Camera Architecture Cases		
				Incorporating Independently Aligned Lens Stacks							
03271.PRO	US	61905423	Nov 18, 2013	Structured Lighting System for Depth Acquisition in Texture-less Regions Using Camera Arrays	Kanik Venkataraman, Jacques Duparre			Expired	Pelican Army Camera Architecture Cases		
03436.CON	US	15005729	Jan 25, 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	Jacques Duparre			Abandoned	Pelican Optics Cases		
03436.PRO	US	61976335	Apr 7, 2014	Sensor Array Warpage compensation by intentionally introducing Warpage into the Lens Array	Jacques Duparre			Expired	Pelican Optics Cases		

03450 PRO	US	6194999	Mar 7, 2014	Depth Registration and Semi-automatic Interactive Mating using RGB-D Images	Munohar Srikanth, Raji Ramamoorthi, Karthi Venkatarman					Expired	Pelican Image Processing Pipeline Cases
03305 PRO	US	62003015	May 26, 2014	Array Camera Augmented with External Image Sensor (Cyclops)	Karthi Venkatarman, Dan Lelescu, Florian Ciura, Gabriel Molim					Lapsed	Pelican Array Camera Architecture Cases
03333 PRO	US	62014021	Jun 18, 2014	Channel-Wise Structured (Organic) Color Filter Array Embedded in Image Sensor Cover Glass	Enrol Mark Roddu, Jacques Duparre					Expired	Pelican Optics Cases
03616 PRO	US	62094392	Dec 19, 2014	Optical Systems for Cameras Incorporating Lens Elements Formed Separately and Subsequently Bonded to Low CTE Substrates	Enrol Mark Roddu, Jacques Duparre					Expired	Pelican Optics Cases
03636 PRO	US	62057196	Sep 29, 2014	Adaptive Geometric Calibration for Array Cameras	Florian Ciura, Dan Lelescu, Priyam Chatterjee					Expired	Pelican Calibration Cases
03664 PRO	US	62067913	Oct 23, 2014	Considerations for Implementation of a Fast Focus Function Using a Camera Array for Depth to Augment Conventional Camera	Karthi Venkatarman					Expired	Pelican Image Processing Pipeline Cases

03664 PRO 01	US	62072295	Oct 29, 2014	Considerations for implementation of a Fast Focus Function Using a Camera Array for Depth to Augment Conventional Camera	Karik Venkataraman				Expired	Pelican Image Processing Pipeline Cases
03781 PRO	US	62106168	Jan 21, 2015	Adaptive Geometric Calibration for Array Cameras	Florian Ciurca, Dan Lelescu, Prigyan Chatterjee				Expired	Pelican Calibration Cases
03782 PRO	US	62106161	Jan 21, 2015	Efficient Methods for Parallax/Depth Estimation for Computation Array Camera's on Mobile Processors	Nageswara Rao Gauthrud, Larry Bank				Expired	Pelican Image Processing Pipeline Cases
03911 PRO	US	62149636	Apr 19, 2015	Multi-Baseline Camera Array System Architecture for Depth Augmentation in VR/AR Applications	Karik Venkataraman, Dan Lelescu, Jacques Dupont				Expired	Pelican Array Camera Architecture Cases
03822 CON	US	15287626	6-OCT-16	Extended Color Processing on Pelican Array Cameras	Robert H. Mullis, Dan Lelescu, Karik Venkataraman				Pending	Pelican Array Camera Architecture Cases

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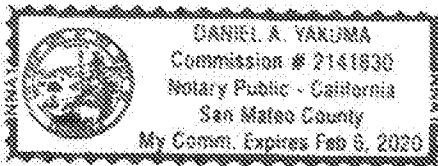
On _____ before me, Daniel A Yakuma, Notary Public
Date Here Insert Name and Title of the Officer

personally appeared Christopher Michael Pickett
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



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Signature of Notary Public

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☐ Trustee ☐ Guardian or Conservator

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