

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Flextronics AP, LLC	06/28/2012

RECEIVING PARTY DATA

Name:	DigitalOptics Corporation
Street Address:	3025 Orchard Parkway
City:	San Jose
State/Country:	CALIFORNIA
Postal Code:	95134

PROPERTY NUMBERS Total: 100

Property Type	Number
Application Number:	11998992
Application Number:	60872142
PCT Number:	US2007024923
Patent Number:	8083421
Application Number:	60891655
PCT Number:	US2007088949
Application Number:	12368454
Application Number:	61030937
PCT Number:	US2009034528
PCT Number:	US2008005298
Application Number:	12150119
Application Number:	60925947
Application Number:	13046563
PCT Number:	US2006034792
Patent Number:	7531773

OP \$4000.00 11998992

Patent Number:	7580209
Patent Number:	7623301
Application Number:	60844781
PCT Number:	US2007019933
Application Number:	13404838
Application Number:	61446156
Application Number:	13404528
Application Number:	61446151
Patent Number:	8018528
Application Number:	61156692
PCT Number:	US2010025958
Application Number:	12716128
Patent Number:	7798730
PCT Number:	US2008005405
Application Number:	13149638
Patent Number:	7825985
Application Number:	12873995
Application Number:	60961312
PCT Number:	US2008008708
Patent Number:	7773876
PCT Number:	US2007023388
Patent Number:	7983556
Application Number:	60864348
PCT Number:	US2007023335
Application Number:	12590325
PCT Number:	US2010002913
Application Number:	13413202
Application Number:	61450040
Application Number:	13470098
Application Number:	61485276
Application Number:	12435080
Application Number:	12727973
Application Number:	61161621
PCT Number:	US2010028014
Patent Number:	7867806

	13404512
Application Number:	61446113
Application Number:	12136033
Application Number:	60942953
Application Number:	12432590
Patent Number:	7830624
Application Number:	13403610
Application Number:	61446163
Patent Number:	7590505
PCT Number:	US2007017696
Patent Number:	7715129
Application Number:	60703539
Application Number:	60703531
PCT Number:	US2006029572
Patent Number:	7508606
PCT Number:	US2006029573
Patent Number:	7469100
Patent Number:	7873269
Application Number:	12930799
PCT Number:	US2006035660
Application Number:	60928135
Patent Number:	7806606
PCT Number:	US2008005659
Application Number:	60836616
Application Number:	61487895
Application Number:	13476420
Application Number:	12623420
PCT Number:	US2008005289
Application Number:	12150118
Application Number:	60925946
Application Number:	13204564
Application Number:	60715533
Patent Number:	8093092
Application Number:	12343985
Application Number:	12005686

	US2008008999
Patent Number:	7477461
PCT Number:	US2007026335
Application Number:	12928026
Patent Number:	7796187
PCT Number:	US2006039521
Application Number:	11698776
PCT Number:	US2008001083
PCT Number:	US2010002251
Application Number:	12583193
Patent Number:	7457050
Application Number:	60743767
PCT Number:	US2007064840
Patent Number:	7573011
PCT Number:	US2007017698

CORRESPONDENCE DATA

Fax Number: 2692798830
Phone: 269-279-8820
Email: patentlawyer@frontier.com
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.
Correspondent Name: Larry E. Henneman, Jr.
Address Line 1: 70 N. Main St.
Address Line 4: Three Rivers, MICHIGAN 49093

ATTORNEY DOCKET NUMBER:	0156-001
-------------------------	----------

NAME OF SUBMITTER:	Larry E. Henneman, Jr.
--------------------	------------------------

Total Attachments: 9
source=Flex AP LLC - DO Corp#page1.tif
source=Flex AP LLC - DO Corp#page2.tif
source=Flex AP LLC - DO Corp#page3.tif
source=Flex AP LLC - DO Corp#page4.tif
source=Flex AP LLC - DO Corp#page5.tif
source=Flex AP LLC - DO Corp#page6.tif
source=Flex AP LLC - DO Corp#page7.tif
source=Flex AP LLC - DO Corp#page8.tif
source=Flex AP LLC - DO Corp#page9.tif

PATENT ASSIGNMENT

This Patent Assignment (the "Assignment") is made and entered into this 28th day of June, 2012 (the "Effective Date"), by and between **FLEXTRONICS AP, LLC**, a Colorado limited liability company, ("Assignor") and **DIGITALOPTICS CORPORATION**, a Delaware corporation ("Assignee"). Each of Assignor and Assignee are sometimes referred to herein individually, as a "Party" and, together as the "Parties." Defined terms not specifically defined herein shall have the meanings ascribed to them in the Stock and Asset Purchase Agreement, dated as of March 1, 2012, as amended (the "Purchase Agreement"), by and among Flextronics International Ltd., a public company limited by shares organized under the laws of the Republic of Singapore ("Seller"), Assignee and Tessera Technologies, Inc., a Delaware corporation. Any capitalized terms used in this Assignment but not defined shall have the same meaning as ascribed thereto in the Purchase Agreement.

WHEREAS, pursuant to the Purchase Agreement, Seller has agreed to cause Assignor to assign to Assignee the Transferred Patents owned by Assignor (the "Assigned Patents"); and

WHEREAS, to effect the transfer of the Assigned Patents as contemplated in the Purchase Agreement, Assignor and Assignee desire to enter into this Assignment.

NOW, THEREFORE, in consideration of the mutual promises of the Parties, and for good and valuable consideration, the receipt, adequacy and legal sufficiency of which are hereby acknowledged, the Parties hereby agree as follows:

1. Assignment. Assignor does hereby sell, assign, convey, transfer and deliver to Assignee and its successors and assigns, all of the worldwide right, title, and interest of Assignor in and to the patents and patent applications (including any patent applications resulting from invention disclosures) comprising the Transferred Patents listed on Exhibit A (including all members of the Patent Family of such Patents that may not be listed on Exhibit A and any patents resulting from the invention disclosure listed on Exhibit A) and the inventions disclosed therein, not only in the United States and its territorial possessions, but in all countries foreign thereto to be obtained for the subject matter thereof, and to any continuation, continuation-in-part, division, renewal, extension, substitute, re-examination or reissue thereof or any legal equivalent in the United States or a foreign country for the full term or terms for which the same may be granted, including all causes of actions, claims and demands or other rights for, or arising from, any infringement, including past infringement, all rights of priority (including the right to claim the priority date of any of the Transferred Patents) under any international conventions and any other international agreements to which the United States adheres, all income, royalties, damages, claims, including the right to sue, and payments now or hereafter due or payable with respect thereto, and all rights corresponding thereto throughout the world.

2. Assistance and Cooperation. Assignor further agrees, without further consideration, to cause to be performed such lawful acts and to execute such further assignments and other lawful documents as Assignee may reasonably request to effectuate fully this Assignment, including but not limited to executing all documents and doing all such acts and things as Assignee 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 Assigned Patents and the inventions disclosed therein in any part of the world and to vest the same in the name of Assignee; provided that Assignor's obligation hereunder shall be limited at all times to obtaining the cooperation, if needed, of then current employees at such employee's place of employment.

3. Perfection and Recordation. Assignor shall prepare all paperwork that is necessary to perfect and record the assignments of the Assigned Patents in the various jurisdictions, and Assignor shall be responsible for all expenses, including recordation expenses, associated therewith (but excluding any costs incurred by Assignee in the preparation or review of such paperwork).

4. Conflicts. Notwithstanding any other provisions of this Assignment to the contrary, each of Assignee and Assignor acknowledges and agrees that the representations, warranties, covenants, agreements, conditions, indemnities, rights and remedies contained in the Purchase Agreement shall not be superseded, modified, replaced, amended, changed, rescinded, or in any way affected hereby, but shall remain in full force and effect to the full extent provided in the Purchase Agreement. This Assignment is subject to and controlled by the terms of the Purchase Agreement, and in the event of any conflict or inconsistency between the terms of the Purchase Agreement and the terms hereof, the terms of the Purchase Agreement shall govern.

5. Further Actions. Assignor covenants and agrees, at its own expense, to execute and deliver, at the request of Assignee, such further instruments of transfer and assignment and to take such other actions as reasonably requested by Assignee to more effectively consummate the assignments and assumptions contemplated by this Assignment; provided that after the date hereof, Assignor's obligation hereunder shall be limited at all times to obtaining the cooperation, if needed, of then current employees at such employee's place of employment to effectuate such transfer and assignment.

6. Governing Law. This Assignment and any disputes hereunder shall be governed by and construed in accordance with the domestic laws of the State of California, without giving effect to any choice of law or conflict of law provision or rule (whether of the State of California or any other jurisdiction) that would cause the application of laws of any jurisdiction other than those of the State of California.

7. Notices. All notices and other communications hereunder shall be in writing and shall be deemed to have been duly given when delivered in person, by telecopy with answer back, by express or overnight mail delivered by a nationally recognized air courier (delivery charges prepaid), by registered or certified mail (postage prepaid, return receipt requested) or by e-mail with receipt confirmed by return e-mail to the respective Parties as set forth below, or such other address as set forth in Purchase Agreement, in the same manner, by such Party. Any notice or communication delivered in person shall be deemed effective on delivery. Any notice or communication sent by e-mail, telecopy or by air courier shall be deemed effective on the first business day following the day on which such notice or communication was sent. Any notice or communication sent by registered or certified mail shall be deemed effective on the third business day following the day on which such notice or communication was mailed.

8. Binding Assignment. No Party may, directly or indirectly, in whole or in part, whether voluntarily or involuntarily or by operation of law or otherwise, assign or transfer this Assignment and the rights granted to it hereunder without the other Party's prior written consent, which consent may be granted or refused at the other Party's sole discretion. Notwithstanding the foregoing, either Party may assign this Assignment and the rights granted to it hereunder, subject to its obligations, to a successor in interest without the consent of the other Party upon any merger, acquisition, reorganization, change of control, or sale of all or substantially all of the assets or business of such Party or the sale of all or substantially all of the camera module assets or the business. Any assignment or attempted assignment in violation of this Section shall be null and void from the beginning, and shall be deemed a material breach of this Assignment.

9. Relationship Between Parties. Assignee and Assignor shall at all times and for all purposes be deemed to be independent contractors and neither Party, nor either Party's employees, representatives, subcontractors or agents, shall have the right or power to bind the other Party. This Assignment shall not itself create or be deemed to create a joint venture, partnership or similar association between Assignee and Assignor or either Party's employees, representatives, subcontractors or agents.

10. Third Party Beneficiaries. The terms and provisions of this Assignment are intended solely for the benefit of Assignee and its Affiliates, on the one hand, and Assignor and its Affiliates, on the other hand. It is not the intention of the Parties to confer third-party beneficiary rights upon any other person or entity, and this Assignment does not (shall not be construed to) confer any right or cause of action in, upon or on behalf of any other person or entity, and no person or entity (including any of employee or former employee of any of the Parties) other than Assignee or its Affiliates and Assignor or its Affiliates shall be entitled to rely on any provision of this Assignment in any action proceeding, hearing or other forum.

11. Severability. In the event that any clause, sub-clause or other provision contained in this Assignment shall be determined by any competent authority to be invalid, unlawful or unenforceable to any extent, such clause, sub-clause or other provision shall to that extent be severed from the remaining clauses and provisions, or the remaining part of the clause in question, which shall continue to be valid and enforceable to the fullest extent permitted by law.

12. No Waiver; Remedies Cumulative. Failure or neglect by a Party to enforce at any time any of the provisions hereof shall not be construed nor shall be deemed to be a waiver of such Party's rights hereunder nor in any way affect the validity of the whole or any part of this Assignment nor prejudice such Party's rights to take subsequent action. All rights and remedies conferred under this Assignment or by any other instrument or law shall be cumulative and may be exercised singularly or concurrently.

13. Amendment. Any term of this Assignment may be amended, modified, rescinded, canceled or waived, in whole or in part, only by a written instrument signed by each of the Parties' authorized representatives or their respective permitted successors and assigns. Any amendment or waiver effected in accordance with this Section shall be binding upon the Parties and their respective successors and assigns.

14. Counterparts. This Assignment may be executed in two or more counterparts, all of which, taken together, shall be considered to be one and the same instrument.

15. Headings; Construction. The headings to the clauses, sub-clauses and parts of this Assignment are inserted for convenience of reference only and are not intended to be part of or to affect the meaning or interpretation of this Assignment. The terms "this Assignment," "hereof," "hereunder" and any similar expressions refer to this Assignment and not to any particular Section or other portion hereof. The Parties agree that any rule of construction to the effect that ambiguities are to be resolved against the drafting Party will not be applied in the construction or interpretation of this Assignment. As used in this Assignment, the words "include" and "including," and variations thereof, will be deemed to be followed by the words "without limitation" and "discretion" means sole discretion.

16. Entire Assignment. With the exception of the Purchase Agreement and the Ancillary Agreements, this Assignment supersedes any arrangements, understandings, promises or agreements made or existing between the Parties prior to or simultaneously with this Assignment and, together with the Purchase Agreement and the Ancillary Agreements, constitutes the entire understanding between the Parties.

[Signature Page Follows]

IN WITNESS WHEREOF, Assignor has caused this Assignment to be executed as of the Effective Date.

FLEXTRONICS AP, LLC

By: *Timothy Stewart*
Name: Timothy Stewart
Title: Director

ACKNOWLEDGEMENT:

STATE OF CALIFORNIA)

) SS:

COUNTY OF)

See attached

On _____ before me _____, 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 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.

Signature _____

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1169

State of California

County of Santa Clara

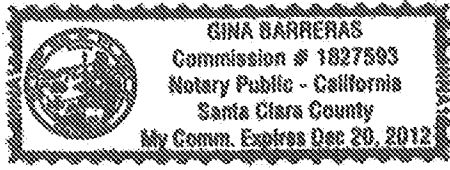
On 6/26/2012 before me, Gina Barreras, Notary Public

personally appeared Timothy Stewart

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.



Signature: Gina Barreras

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document:

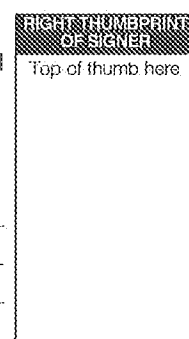
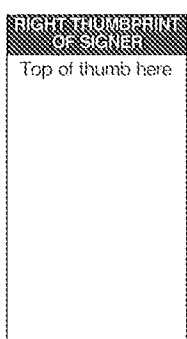
Document Date: Number of Pages:

Signer(s) Other Than Named Above:

Capacity(ies) Claimed by Signer(s)

Signer's Name: Signer's Name:

- Corporate Officer -- Title(s):
Individual
Partner -- Limited General
Attorney in Fact
Trustee
Guardian or Conservator
Other:



Signer Is Representing: Signer Is Representing:

Exhibit A Assigned Patents

Jurisdiction	Title	Application No.	Publication No.	Patent No.	Filing Date	Issue Date
CN	ACTUATED STEPPER LENS CAMERA MODULE	200780049919.8	101595429		12/3/2007	
JP	ACTUATED STEPPER LENS CAMERA MODULE	2009-539371	2010511897		12/3/2007	
US	ACTUATED STEPPER LENS CAMERA MODULE	11/998,992	20080225415		12/3/2007	
US	ACTUATED STEPPER LENS CAMERA MODULE	60/872,142			12/1/2006	
WO	ACTUATED STEPPER LENS CAMERA MODULE	PCT/US07/024923	2008070125		12/3/2007	
US	AF/ZOOM SHUTTER WITH TWO BLADES FUNCTION	12/624,266	20110052183	8083421	11/23/2009	12/27/2011
US	ALTERNATIVE PROCESS TO SHELLCASE CF STYLE PACKAGING					
US	ATTACHING PASSIVE COMPONENTS TO A SEMICONDUCTOR DIE	60/891,655			2/26/2007	
WO	ATTACHING PASSIVE COMPONENTS TO A SEMICONDUCTOR DIE	PCT/US07/088949	2008105979		12/27/2007	
CN	ATTACHMENT OF WAFER LEVEL OPTICS	200980111373.3	101981913		2/19/2009	
JP	ATTACHMENT OF WAFER LEVEL OPTICS	2010-547748	2011-514054		2/19/2009	
US	ATTACHMENT OF WAFER LEVEL OPTICS	12/368,454	20090213262		2/10/2009	
US	ATTACHMENT OF WAFER LEVEL OPTICS	61/030,937			2/22/2008	
WO	ATTACHMENT OF WAFER LEVEL OPTICS	PCT/US09/034528	2009105547		2/19/2009	
JP	AUTO FOCUS/ ZOOM MODULES USING WAFER LEVEL OPTICS	2010-506259	2010525413		4/24/2008	
WO	AUTO FOCUS/ ZOOM MODULES USING WAFER LEVEL OPTICS	PCT/US08/005298	2008133946		4/24/2008	
CA	AUTO FOCUS/ZOOM MODULES USING WAFER LEVEL OPTICS	2685083	2685083		4/24/2008	
US	AUTO FOCUS/ZOOM MODULES USING WAFER LEVEL OPTICS	12/150,119	20090015706		4/24/2008	
US	AUTO FOCUS/ZOOM MODULES USING WAFER LEVEL OPTICS	60/925,947			4/24/2007	
US	AUTO FOCUS-ZOOM ACTUATOR OR CAMERA MODULE CONTAMINATION REDUCTION FEATURE WITH INTEGRATED PROTECTIVE MEMBRANE	13/046,563			3/11/2011	
CA	AUTO-FOCUS AND ZOOM MODULE	2620842	2620842		9/5/2006	3/15/2007
CN	AUTO-FOCUS AND ZOOM MODULE	200680041383	101300525		9/5/2006	
EP	AUTO-FOCUS AND ZOOM MODULE	6814261.1	1929364		9/5/2006	
JP	AUTO-FOCUS AND ZOOM MODULE	2008-530180	2009516857		9/5/2006	
KR	AUTO-FOCUS AND ZOOM MODULE	10-2008-7005469	1020087005469		3/5/2008	
TW	AUTO-FOCUS AND ZOOM MODULE	95132640	200712721		9/4/2006	
WO	AUTO-FOCUS AND ZOOM MODULE	PCT/US06/034792	2007030578		9/5/2006	
US	AUTO-FOCUS AND ZOOM MODULE HAVING A LEAD SCREW WITH ITS ROTATION RESULTS IN TRANSLATION OF AN OPTICS GROUP	11/514,811	20070053672	7531773	9/1/2006	5/12/2009
US	AUTO-FOCUS AND ZOOM MODULE WITH VIBRATIONAL ACTUATOR AND POSITION SENSING METHOD	11/893,940	20080068728	7580209	8/17/2007	8/25/2009
US	AUTO-FOCUS AND ZOOM MODULE WITH VIBRATIONAL ACTUATOR AND POSITION SENSING METHOD	12/287,469	20090046376	7623301	10/8/2008	11/24/2009
US	AUTO-FOCUS AND ZOOM MODULE WITH VIBRATIONAL ACTUATOR AND POSITION SENSING METHOD	60/844,781			9/15/2006	
WO	AUTO-FOCUS AND ZOOM MODULE WITH VIBRATIONAL ACTUATOR AND POSITION SENSING METHOD	PCT/US07/019933	2008033467		9/11/2007	
US	AUTOFOCUS CAMERA MODULE PACKAGING WITH CIRCUITRY-INTEGRATED ACTUATOR SYSTEM	13/404,838			2/24/2012	
US	AUTOFOCUS CAMERA MODULE PACKAGING WITH CIRCUITRY-INTEGRATED ACTUATOR SYSTEM	61/446,156			2/24/2011	
US	AUTOFOCUS-ZOOM CAMERA MODULE INTEGRATING LCD MODULE AS HIGH SPEED SHUTTER	13/404,528			2/24/2012	
US	AUTOFOCUS-ZOOM CAMERA MODULE INTEGRATING LCD MODULE AS HIGH SPEED SHUTTER	61/446,151			2/24/2011	
CN	AUTOMATIC FOCUS/ZOOM MODULES USING WAFER LEVEL OPTICAL SYSTEMS	200880021357	101681085		4/24/2008	
CN	AUTOMATIC FOCUSING/ZOOM SHUTTER WITH TWO BLADES FUNCTION	201010560305.X	1020181276		4/25/2008	
US	BACKLASH PREVENTION SYSTEM AND METHOD	12/317,132	20090167926	8018528	12/18/2008	9/13/2011
US	CALIBRATION TECHNIQUES FOR CAMERA MODULE	61/156,692			3/2/2009	
WO	CALIBRATION TECHNIQUES FOR CAMERA MODULE	PCT/US10/025958	2010101945		3/2/2010	
CN	CALIBRATION TECHNIQUES FOR CAMERA MODULES	201080010237	102342089		3/2/2010	
US	CALIBRATION TECHNIQUES FOR CAMERA MODULES	12/716,128	20100321506		3/2/2010	
CN	CAMERA BLADE SHUTTER MODULE	200880014884.9	101675381		4/25/2008	
JP	CAMERA BLADE SHUTTER MODULE	2010-507395	2010527030		4/25/2008	
JP	CAMERA BLADE SHUTTER MODULE	2010-507415	2010535348		4/30/2008	
TW	CAMERA BLADE SHUTTER MODULE	97115801	200903143		4/29/2008	
US	CAMERA BLADE SHUTTER MODULE	12/150,219	20080279544	7798730	4/25/2008	9/21/2010
WO	CAMERA BLADE SHUTTER MODULE	PCT/US08/005405	2008136947		4/25/2008	
CN	CAMERA MODULE BACK-FOCAL LENGTH ADJUSTMENT METHOD AND ULTRA COMPACT COMPONENTS PACKAGING	200880023704.3	101689012		7/15/2008	
JP	CAMERA MODULE BACK-FOCAL LENGTH ADJUSTMENT METHOD AND ULTRA COMPACT COMPONENTS PACKAGING	2010-517011	2011503635		7/15/2008	
US	CAMERA MODULE BACK-FOCAL LENGTH ADJUSTMENT METHOD AND ULTRA COMPACT COMPONENTS PACKAGING	13/149,638	20110228154		5/31/2011	
US	CAMERA MODULE BACK-FOCAL LENGTH ADJUSTMENT METHOD AND ULTRA COMPACT COMPONENTS PACKAGING	11/980,021	20090021624	7825985	10/29/2007	
US	CAMERA MODULE BACK-FOCAL LENGTH ADJUSTMENT METHOD AND ULTRA COMPACT COMPONENTS PACKAGING	12/873,995	20100325883		9/1/2010	
US	CAMERA MODULE BACK-FOCAL LENGTH ADJUSTMENT METHOD AND ULTRA COMPACT COMPONENTS PACKAGING	60/961,312			7/19/2007	
WO	CAMERA MODULE BACK-FOCAL LENGTH ADJUSTMENT METHOD AND ULTRA COMPACT COMPONENTS PACKAGING	PCT/US08/008708	2009014627		7/15/2008	
JP	CAMERA MODULE CONTAMINATION REDUCTION GASKET	2009-535360	2010509806		11/5/2007	
US	CAMERA MODULE CONTAMINATION REDUCTION GASKET	11/982,846	20080159734	7773876	11/5/2007	
WO	CAMERA MODULE CONTAMINATION REDUCTION GASKET	PCT/US07/023388	2008057544		11/5/2007	

US	CAMERA MODULE INCLUDING PASSIVE COMPONENT ALIGNMENT SYSTEM AND METHOD OF MANUFACTURE					
CN	CAMERA MODULE WITH CONTAMINATION REDUCTION FEATURE	200780040705.4	101535861			11/5/2007
CN	CAMERA MODULE WITH CONTAMINATION REDUCTION FEATURE	200780041066.3	101543045			11/5/2007
JP	CAMERA MODULE WITH CONTAMINATION REDUCTION FEATURE	2009-535355	2010509620			11/5/2007
US	CAMERA MODULE WITH CONTAMINATION REDUCTION FEATURE	11/982,726	20080152339	7983556		11/2/2007
US	CAMERA MODULE WITH CONTAMINATION REDUCTION FEATURE	60/864,348				
WO	CAMERA MODULE WITH CONTAMINATION REDUCTION FEATURE	PCT/US07/023335	2008057517			11/5/2007
US	CAMERA MODULE WITH FOLD OVER FLEXIBLE CIRCUIT AND CAVITY SUBSTRATE	12/590,325	20110102667			11/5/2009
WO	CAMERA MODULE WITH FOLD-OVER FLEXIBLE CIRCUIT AND CAVITY SUBSTRATE	PCT/US10/002913	2011056228			11/5/2010
US	CAMERA MODULE WITH PROTECTIVE AIR VENTILATION CHANNEL	13/413,202				3/6/2012
US	CAMERA MODULE WITH PROTECTIVE AIR VENTILATION CHANNEL	61/450,040				3/7/2011
CN	CAMERA MODULE WITH TEMPORARY LOCK STRUCTURE SECTION	201110063877.1	102109652			11/5/2007
US	CAMERA MODULE WITH THREADLESS LENS BARREL ENGAGEMENT DESIGN	13/470,098				5/11/2012
US	CAMERA MODULE WITH THREADLESS LENS BARREL ENGAGEMENT DESIGN	61/485,276				5/11/2012
US	COMBINATION MIRROR-DUST PROTECTOR SHUTTER FOR A 3X ZOOM CAMERA					
US	DEVICE AND METHOD FOR ASSEMBLING CAMERA MODULES					
CN	DUAL LENS DIGITAL ZOOM	201010000000	101902572			5/4/2010
JP	DUAL LENS DIGITAL ZOOM	2010-081264	2010263619			3/31/2010
US	DUAL LENS DIGITAL ZOOM	12/435,080	20100277619			5/4/2009
US	DUAL SENSOR CAMERA	12/727,973	20100238327			3/19/2010
US	DUAL SENSOR CAMERA	61/161,621				3/19/2009
WO	DUAL SENSOR CAMERA	PCT/US10/28014	2010108119			3/19/2010
US	ELECTRONIC COMPONENT STRUCTURE AND METHOD OF MAKING	11/752,181	20080206927	7867806		5/22/2007
US	FLASH SYSTEM FOR CAMERA MODULE	13/404,512				2/24/2012
US	FLASH SYSTEM FOR CAMERA MODULE	61/446,113				2/24/2011
US	FLIP-CHIP CAMERA MODULE AND METHOD OF MANUFACTURE					
US	GLASS-ON-DIE ATTACHMENT METHOD FOR IMAGE SENSOR	12/136,033				6/9/2008
US	GLASS-ON-DIE ATTACHMENT METHOD FOR IMAGE SENSOR	60/942,953				6/8/2007
CN	IMAGE SPACE FOCUS	201010209726.8	101877763			4/29/2010
JP	IMAGE SPACE FOCUS	2010-104944	2010262293			4/30/2010
US	IMAGE SPACE FOCUS	12/432,590	20100277638			4/29/2009
US	INTEGRATED CAMERA MODULE AND METHOD OF MANUFACTURE					
US	LASER BONDING CAMERA MODULES TO LOCK FOCUS	11/874,794	20090103193	7830624		10/18/2007
US	LENS HOUSING WITH INTEGRATED IR FILTER					11/9/2010
US	LENS MOUNTED IMAGE CAPTURE DEVICE AND METHOD OF MANUFACTURE					
US	LENS TO HOUSING ATTACHMENT DESIGN TO REDUCE SENSOR CONTAMINATION AND ALLOW LENS FOCUSING ALONG WITH ITS TILT AND TIP ALIGNMENT					
US	LOW PROFILE CAMERA MODULE PACKAGING	13/403,610				2/23/2012
US	LOW PROFILE CAMERA MODULE PACKAGING	61/446,163				2/24/2011
TW	MANUFACTURABLE MICROPOSITIONING SYSTEM	96128928	200813594			8/6/2007
US	MANUFACTURABLE MICROPOSITIONING SYSTEM EMPLOYING SENSOR TARGET	11/888,939	20080040069	7590505		8/3/2007
CN	MANUFACTURABLE MICROPOSITIONING SYSTEM EMPLOYING NON-LINEAR ACTUATOR	200780037571	101548278			8/7/2007
WO	MANUFACTURABLE MICROPOSITIONING SYSTEM EMPLOYING NON-LINEAR ACTUATOR	PCT/US07/017696	2008021167			8/7/2007
US	METHOD AND STRUCTURE FOR INTERCONNECTING MULTIPLE DIES IN A CAMERA MODULE					
EP	METHOD FOR ALIGNING AND ASSEMBLING TWO LENS PIECES, AND A MACHINE TO ACCOMPLISH THIS TASK	6788884.2	1924954			7/28/2006
US	METHOD FOR ALIGNING AND ASSEMBLING TWO LENS PIECES, AND A MACHINE TO ACCOMPLISH THIS TASK	11/494,859	20070032169	7715129		7/28/2006
US	METHOD FOR ALIGNING AND ASSEMBLING TWO LENS PIECES, AND A MACHINE TO ACCOMPLISH THIS TASK	60/703,539				7/29/2005
US	METHOD FOR ALIGNING AND ASSEMBLING TWO LENS PIECES, AND A MACHINE TO ACCOMPLISH THIS TASK	60/703,531				7/29/2005
WO	METHOD FOR ALIGNING AND ASSEMBLING TWO LENS PIECES, AND A MACHINE TO ACCOMPLISH THIS TASK	PCT/US06/029572	2007016413			7/28/2006
EP	METHOD OF ALIGNING THE UPPER AND LOWER CENTERING BELLS OF A LENS DOUBLET ASSEMBLY MACHINE	6813247.1	1924875			7/28/2006
US	METHOD OF ALIGNING THE UPPER AND LOWER CENTERING BELLS OF A LENS DOUBLET ASSEMBLY MACHINE	11/495,330	20070037485	7508606		7/28/2006
WO	METHOD OF ALIGNING THE UPPER AND LOWER CENTERING BELLS OF A LENS DOUBLET ASSEMBLY MACHINE	PCT/US06/029573	2007016414			7/28/2006
US	METHOD OF MOLDING AN OPTICAL LENS USING A CAM ACTION PROCESS					
EP	MICRO CAMERA MODULE WITH DISCRETE MANUAL FOCAL POSITIONS	6803508.8	1946184			9/14/2006
JP	MICRO CAMERA MODULE WITH DISCRETE MANUAL FOCAL POSITIONS	2008-533403	2009510519			9/14/2006
US	MICRO CAMERA MODULE WITH DISCRETE MANUAL FOCAL POSITIONS	11/242,646	20070077051	7469100		10/3/2005
US	MICRO CAMERA MODULE WITH DISCRETE MANUAL FOCAL POSITIONS	12/317,295	20090110385	7873269		12/22/2008
US	MICRO CAMERA MODULE WITH DISCRETE MANUAL FOCAL POSITIONS	12/930,799	20110116779			1/18/2011
WO	MICRO CAMERA MODULE WITH DISCRETE MANUAL FOCAL POSITIONS	PCT/US06/035660	2007040933			9/14/2006
CN	MINIATURE CAMERA SHUTTER AND FILTER/APERTURE	200880014860.3	101675382			4/30/2008
JP	MINIATURE CAMERA SHUTTER AND FILTER/APERTURE	2010-507415	JP2010535348			4/30/2008
TW	MINIATURE CAMERA SHUTTER AND FILTER/APERTURE	97116131	200903144			5/1/2008
US	MINIATURE CAMERA SHUTTER AND FILTER/APERTURE	60/928,135				5/7/2007
US	MINIATURE CAMERA SHUTTER AND FILTER/APERTURE	12/150,874	20080279545	7806606		4/30/2008
WO	MINIATURE CAMERA SHUTTER AND FILTER/APERTURE	PCT/US08/005659	2008137057			4/30/2008

US	MINIATURIZED ZOOM MODULE WITH ROTATIONAL PIEZO ACTUATOR WITH ANTI-LOCK FEATURE, EVEN FORCE DISTRIBUTION, SHOCK DAMAGE PREVENTION AND A NOVEL POSITION SENSING METHODS	60/836,616			8/8/2006	
US	MOBILE IMAGING LENS					
US	MULTI-DIRECTION SFR MEASUREMENT SYSTEM	61/487,895			5/19/2011	
US	MULTI-DIRECTION SFR MEASUREMENT SYSTEM	13/476,420			5/23/2012	
CN	OPTICAL NAVIGATION DEVICE	201010505078	102073391		10/9/2010	
JP	OPTICAL NAVIGATION DEVICE	2010-190783	2011113560		8/27/2010	
US	OPTICAL NAVIGATION DEVICE	12/623,420	20110122060		11/22/2009	
EP	POP UP PRISM LENS ASSEMBLY	5766080.5	1766471		6/22/2005	
WO	SMALL FORM FACTOR MODULES USING WAFER LEVEL OPTICS WITH BOTTOM CAVITY AND FLIP CHIP ASSEMBLY	PCT/US08/005289	2008133943		4/24/2008	
CA	SMALL FORM FACTOR MODULES USING WAFER LEVEL OPTICS WITH BOTTOM CAVITY AND FLIP-CHIP ASSEMBL	2685080	2685080		11/6/2008	
CN	SMALL FORM FACTOR MODULES USING WAFER LEVEL OPTICS WITH BOTTOM CAVITY AND FLIP-CHIP ASSEMBL	200880021337.3	101730863			
JP	SMALL FORM FACTOR MODULES USING WAFER LEVEL OPTICS WITH BOTTOM CAVITY AND FLIP-CHIP ASSEMBLY	2010-506257	2010525412		4/24/2008	
US	SMALL FORM FACTOR MODULES USING WAFER LEVEL OPTICS WITH BOTTOM CAVITY AND FLIP-CHIP ASSEMBLY	12/150,118	20100053423		4/24/2008	
US	SMALL FORM FACTOR MODULES USING WAFER LEVEL OPTICS WITH BOTTOM CAVITY AND FLIP-CHIP ASSEMBLY	60/925,946			4/24/2007	
US	SYSTEM AND METHOD FOR CONNECTING AUTO-FOCUS ACTUATOR AND SUBSTRATE					
US	SYSTEM AND METHOD FOR LATERALLY ALIGNING A LENS MODULE WITH AN IMAGE SENSOR					
US	SYSTEM AND METHOD FOR MOUNTING A PARTICLE TRAP IN A CAMERA MODULE					
US	SYSTEM FOR STABILIZING AN OPTICS ASSEMBLY DURING TRANSLATION	13/204,564	20110292526		8/5/2011	
US	SYSTEM FOR STABILIZING AN OPTICS ASSEMBLY DURING TRANSLATION	60/715,533			9/8/2005	
CN	TECHNIQUE FOR GLASS ATTACHMENT IN IMAGE SENSOR PACKAGE	200911000182.8	101807528		12/24/2009	
JP	TECHNIQUE FOR GLASS ATTACHMENT IN IMAGE SENSOR PACKAGE	2009-293103	2010153874		12/24/2009	
TW	TECHNIQUES FOR GLASS ATTACHMENT IN AN IMAGE SENSOR PACKAGE	98144464	201034060		12/23/2009	
US	TECHNIQUES FOR GLASS ATTACHMENT IN AN IMAGE SENSOR PACKAGE	12/502,924	20100105160	8093092	7/14/2009	1/10/2012
US	TECHNIQUES FOR GLASS ATTACHMENT IN AN IMAGE SENSOR PACKAGE	60/942,953			6/8/2007	
US	TECHNIQUES FOR GLASS ATTACHMENT IN AN IMAGE SENSOR PACKAGE	12/343,985			12/24/2008	
US	TECHNIQUES FOR GLASS ATTACHMENT IN AN IMAGE SENSOR PACKAGE	12/136,033			6/9/2008	
CN	TELE WIDE MODULE	200880126200.4	101939701		7/23/2008	
JP	TELE WIDE MODULE	2010-540626	2011508280		7/23/2008	
US	TELE WIDE MODULE	12/005,686	20090167924		12/27/2009	
WO	TELE WIDE MODULE	PCT/US08/008999	2009085061		7/23/2008	
CN	THREE-ELEMENT PHOTOGRAPHIC OBJECTIVE WITH REDUCED TOLERANCE SENSITIVITIES	200780047588.4	101681014		12/21/2007	
JP	THREE-ELEMENT PHOTOGRAPHIC OBJECTIVE WITH REDUCED TOLERANCE SENSITIVITIES	2009-542972	2010526320		12/21/2007	
US	THREE-ELEMENT PHOTOGRAPHIC OBJECTIVE WITH REDUCED TOLERANCE SENSITIVITIES	11/644,459	20080165430	7477461	12/22/2006	1/13/2009
WO	THREE-ELEMENT PHOTOGRAPHIC OBJECTIVE WITH REDUCED TOLERANCE SENSITIVITIES	PCT/US07/026335	2008079403		12/21/2007	
US	THREE-POLE TILT CONTROL SYSTEM FOR CAMERA MODULE	12/928,026	2012-0141114		12/1/2010	
CN	WAFER BASED CAMERA MODULE AND METHOD OF MANUFACTURE	200680046525.2	101326811		10/10/2006	
EP	WAFER BASED CAMERA MODULE AND METHOD OF MANUFACTURE	6816608.1	1943833	1943833	10/10/2006	5/16/2012
JP	WAFER BASED CAMERA MODULE AND METHOD OF MANUFACTURE	2006-554218	2007523568		8/16/2006	
JP	WAFER BASED CAMERA MODULE AND METHOD OF MANUFACTURE	2006-535619	2009512346		10/10/2006	
TW	WAFER BASED CAMERA MODULE AND METHOD OF MANUFACTURE	95135550	200718185		9/26/2006	
US	WAFER BASED CAMERA MODULE AND METHOD OF MANUFACTURE	11/247,993	20060132644	7796187	10/11/2005	9/14/2010
WO	WAFER BASED CAMERA MODULE AND METHOD OF MANUFACTURE	PCT/US06/039521	2007047254		10/10/2006	
CA	WAFER BASED CAMERA MODULE AND METHOD OF MANUFACTURE	2625587	2007047254		10/10/2006	
CA	WAFER LEVEL CAMERA MODULE AND METHOD OF MANUFACTURE	2676550	2676550		1/28/2008	
CN	WAFER LEVEL CAMERA MODULE AND METHOD OF MANUFACTURE	200880009978.7	101652695		1/28/2008	
JP	WAFER LEVEL CAMERA MODULE AND METHOD OF MANUFACTURE	2009-547318	2010517432		1/28/2008	
US	WAFER LEVEL CAMERA MODULE AND METHOD OF MANUFACTURE	11/698,776	20080180566		1/26/2007	
WO	WAFER LEVEL CAMERA MODULE AND METHOD OF MANUFACTURE	PCT/US08/001083	2008094499		1/28/2008	
WO	WAFER LEVEL CAMERA MODULE WITH MOLDED HOUSING AND METHOD OF MANUFACTURE	PCT/US10/002251	2011019409		8/16/2010	
US	WAFER LEVEL CAMERA MODULE WITH MOLDED HOUSING AND METHOD OF MANUFACTURING	12/583,193	20110037886		8/14/2009	
US	ZOOM LENS SYSTEM FOR USE WITH SMALL ELECTRONIC SENSOR	11/690,693	20070223102	7457050	3/23/2007	11/25/2008
US	ZOOM LENS SYSTEM FOR USE WITH SMALL ELECTRONIC SENSOR	60/743,767			3/24/2006	
WO	ZOOM LENS SYSTEM FOR USE WITH SMALL ELECTRONIC SENSOR	PCT/US07/064840	2007112321		3/23/2007	
US	ZOOM MODULE USING ACTUATOR AND LEAD SCREW WITH TRANSLATING OPERATION	11/888,979	20080074528	7573011	8/3/2007	8/11/2009
CN	ZOOM MODULE USING ROTATIONAL ACTUATOR WITH ANTI-LOCK FEATURE, EVEN FORCE DISTRIBUTION AND SHOCK DAMAGE PREVENTION METHODS	200780037641.2	101529301		8/7/2008	
TW	ZOOM MODULE USING ROTATIONAL ACTUATOR WITH ANTI-LOCK FEATURE, EVEN FORCE DISTRIBUTION AND SHOCK DAMAGE PREVENTION METHODS	96128927	200817719		8/6/2007	
WO	ZOOM MODULE USING ROTATIONAL ACTUATOR WITH ANTI-LOCK FEATURE, EVEN FORCE DISTRIBUTION AND SHOCK DAMAGE PREVENTION METHODS	PCT/US07/017698	2008021169		8/7/2007	

SV\882382.6

RECORDED: 09/12/2012

PATENT
REEL: 028948 FRAME: 0802