PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
OmniVision CDM Optics, Inc.	03/30/2012

RECEIVING PARTY DATA

Name:	OmniVision Technologies, Inc.
Street Address:	4275 Burton Drive
City:	Santa Clara
State/Country:	CALIFORNIA
Postal Code:	95054

PROPERTY NUMBERS Total: 2

Property Type	Number	
Application Number:	12865343	
Application Number:	12867828	

CORRESPONDENCE DATA

Fax Number: (720)931-3001 Phone: 720-931-3000

Email: patent@lathropgage.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: LATHROP & GAGE LLP
Address Line 1: 4845 PEARL EAST CIRCLE

Address Line 2: SUITE 201

Address Line 4: BOULDER, COLORADO 80301

ATTORNEY DOCKET NUMBER:	502763 & 502842
NAME OF SUBMITTER:	Curtis A. Vock

Total Attachments: 7

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PATENT REEL: 027974 FRAME: 0418 12865343

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ASSIGNMENT

WHEREAS, **OmniVision CDM Optics**, **Inc.**, having its principal place of business at 4001 Discovery Drive, Suite 130, Boulder, Colorado, USA, is the owner by assignment of all rights in and to the inventions set forth in the patents and applications for Letters Patent set forth in Schedule A attached hereto;

WHEREAS **OmniVision Technologies, Inc.**, having its principal place of business at 4275 Burton Drive, Santa Clara, California, is desirous of acquiring all rights, title, and interest in and said inventions, said patents, said applications, and in and to any and all Letters Patent which may be granted for or upon said inventions in the United States of America and anywhere in the world;

NOW THEREFORE, to all whom it may concern, be it known that for consideration in the amount of One United States Dollar (\$1.00 USD), the receipt and sufficiency of which are hereby acknowledged, **OmniVision CDM Optics**, **Inc.**, has sold, assigned, and transferred, and by these presents do sell, assign, and transfer, unto said **OmniVision Technologies**, **Inc.**, the full and exclusive right, title, and interest, throughout the world, in, to, and under the following:

- (a) said inventions as fully set forth and described in the specifications prepared, and executed preparatory to obtaining Letters Patents of the United States therefor;
 - (b) said applications;
- (c) any and all refilings, divisions, continuations, and continuations-in-part of said applications;
- (d) any and all Letters Patents of the United States of America which may issue from said applications, refilings, divisions, continuations, and continuations-in-part;
- (e) any and all reissues and reexaminations of said Letters Patents of the United States of America;
- (f) any and all applications for Letters Patent, and/or the equivalent, upon said inventions which may hereafter be filed in any and all countries foreign to the United States of America:

Assignment Page 1 of 3

(g)	any and all refilings, divisions, and continuations, of said foreign-filed
applications;	
(h)	all claims, causes of action and damages for past infringement, if any, of
said application	ons;
(i)	any and all Letters Patents of countries foreign to the United States of
America whic	h may issue from the said foreign-filed applications, refilings, divisions,
and continuati	ons; and
(j)	any and all extensions of, and additions to, said Letters Patents of
countries fore	ign to the United States of America.
All of	the above shall be held and enjoyed by said OmniVision Technologies,
Inc., for its ov	vn use and benefit, and for its successors, legal representatives, and assigns,
to the full end	of the term for which said Letters Patents may be granted, and the
undersigned h	ereby authorizes and requests the Commissioner of Patents and Trademarks
to issue the sa	id Letters Patents in accordance with this Assignment.
	OmniVision CDM Optics, Inc.
3/30/ Date	Name: Y. Vicky Chon aka Yun Hwa Chan Title: Director
STATE OF	; ·
COUNTY OF	: SS: :
On thi	day of, 2012, before me personally appeared
William Control of the Control of th	to me known to be the person described in and who executed
• •	instrument as his free act and deed.
In with	ness whereof, I have hereunto set my hand and affixed my notarial seal the day
and year last a	bove written.

Assignment Page 2 of 3

My commission expires: (SEAL)

Notary Public

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT State of California County of Santa Clara On March 30, 2017 before me, Diana Ishaki - Goung Rating Pablic Date Here Insert Name and Title of the Officer personally appeared Yun Nava Chou, AKA Y. Vicky Chou 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 DIANA TAKAKI-YOUNG & of the State of California that the foregoing paragraph is COMM. # 1836548 HOTARY PUBLIC -CALIFORNIA SANTA CLARA COUNTY MY COMM. EXP. FEB. 15, 2013 true and correct. WITNESS my hand and official seal. Signature Duna Indahi - Gotting Signature of Notary Public 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: Assignment + Schedule A Document Date: March 30, 2012 Number of Pages: 5 Signer(s) Other Than Named Above: __ Capacity(ies) Claimed by Signer(s) Once your Chow Signer's Name: Signer's Name: Yun Hwa Chow Signer's Name: ☐ Individual □ Individual Corporate Officer — Title(s): Director ☐ Corporate Officer — Title(s): __ ☐ Partner — ☐ Limited ☐ General ☐ Partner — ☐ Limited ☐ General ☐ Attorney in Fact ☐ Attorney in Fact Top of thumb here □ Trustee □ Trustee ☐ Guardian or Conservator ☐ Guardian or Conservator ☐ Other: _____ Other: Signer Is Representing:___ Signer Is Representing: _____

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AGREED TO AND ACCEPTED BY:

My commission expires:

(SEAL)

	OmniVision Technologies, Inc.
3/30/2012 Date	Name: Y. Vickython aka Yun Hwa Chon Title: Director
STATE OF COUNTY OF	: : SS: :
	, 2012, before me personally appeared
to me	e known to be the person described in and who executed
the foregoing instrument as his free a	act and deed.
In witness whereof, I have he	ereunto set my hand and affixed my notarial seal the day
and year last above written.	
	Notary Public

Assignment Page 3 of 3

CALIFORNIA ALL-PURPOSE ACK	NOWLEDGMENT		
State of California)		
County of Santa Clara			
	a Takaki- Garing, Notary Public,		
personally appeared Yun Nwa Cha	Here Insert Name and Title of the Officer File, AKA Y. Veckey. Chore 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(iee), 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.		
DIANA TAKAKI-YOUNG COMM. # 1836548 U NOTARY PUBLIC-CALIFORNIA U SANTA CLARA COUNTY MY COMM. EXP. FEB. 15, 2013	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.		
Place Notary Seat Above	Signature Clana Irlale young Signature of Notary Public		
Though the information below is not required by law, it	TIONAL t may prove valuable to persons relying on the document eattachment of this form to another document.		
Description of Attached Document			
Title or Type of Document: Assignmen	t + Schedule, H		
Document Date: MACK 30, 2012	T + Achelule A Number of Pages: 5		
Signer(s) Other Than Named Above:			
Capacity(ies) Claimed by Signer(s)	ages, Inc		
Signer's Name: Jun Dura Chou Individual Corporate Officer — Title(s): Dura Tax Partner — Limited General Attorney in Fact Trustee Guardian or Conservator Other: Signer Is Representing:	Signer's Name: Individual Corporate Officer — Title(s): Partner — Limited General Attorney in Fact Signer's Name: Individual General RIGHT THUMBPRINT OF SIGNER		

SCHEDULE A

Docket No.	Title	Country	Application No./ Patent No.	Filing Date/ Issue Date
487369	Circularly Symmetric Aspheric Optics Providing Non-Monotonic Wavefront Phase Profile and Extended Depth of Field	WO	PCT/US09/34299	02/17/2009
478152		US	61/029,263	02/15/2008
502842	Circularly Symmetric Aspheric Optics Providing Non-Monotonic Wavefront Phase Profile and Extended Depth of Field	US	12/867,828	8/16/2010
502840	Circularly Symmetric Aspheric Optics Providing Non-Monotonic Wavefront Phase Profile and Extended Depth of Field	CN	200980112946.4	02/17/2009
802539	Circularly Symmetric Aspheric Optics Providing Non-Monotonic Wavefront Phase Profile and Extended Depth of Field	EP	09711351.8	02/17/2009
487368	Circularly Symmetric Aspheric Optics Providing Non-Monotonic Wavefront Phase Profile and Extended Depth of Filed	TW	098104734	02/13/2009
484910	Membrane Suspended Optical Elements, and Associated Methods	WO	PCT/US09/31283	01/16/2009
476541	Array Optical Elements in a Membrane Configuration	US	61/021,338	01/16/2008
502837	Membrane Suspended Optical Elements, and Associated Methods	US	12/863,416	2/17/2011
502834	Membrane Suspended Optical Elements, and Associated Methods	EP	09702508.4	01/16/2009
502836	Membrane Suspended Optical Elements, and Associated Methods	CN	200980107784.5	01/16/2009
484195	Membrane Suspended Optical Elements, and Associated Methods	TW	098101408	01/15/2009
493170	Anti-Reflective Surfaces and Methods for Making the Same	wo	PCT/US09/54025	08/17/2009
483873	Anti-Reflective Surfaces and Methods for Making the Same	US	61/089,111	08/15/2008
506381	Anti-Reflective Surfaces and Methods for Making the Same	US	13/059,189	2/15/2011
493171	Anti-Reflective Surfaces and Methods for Making the Same	TW	098126980	08/11/2009

Schedule A to Assignment Page 1

17457902v1

Docket No.	Title	Country	Application No./ Patent No.	Filing Date/ Issue Date
488320	Imaging Systems Including Distributed Phase Modification and Associated Methods		PCT/US09/39518	04/03/2009
479532	Imaging Systems Including Distributed Phase Modification and Associated Methods		61/042,161	04/03/2008
504821	Imaging Systems Including Distributed Phase Modification and Associated Methods	US	12/936,344	10/4/2010
504819	Imaging Systems Including Distributed Phase Modification and Associated Methods	EP	09726991.4	04/03/2009
504822	Imaging Systems Including Distributed Phase Modification and Associated Methods	CN	200980120522.2	04/03/2009
487115	Image Data Fusion Systems and Methods	WO	PCT/US09/32683	01/30/2009
481138	Transform Domain Registration for Image Fusion	US	61/059,319	06/06/2008
480207	Transform Domain Registration for Image Fusion	US	61/051,338	05/07/2008
476998	Multi-Focal Length Image Fusion	US	61/025,533	02/01/2008
502763	Image Data Fusion Systems and Methods	US	12/865,343	11/29/2010
487114	Fusing of Images Captured by a Multi- aperture Imaging System	TW	098103287	10/16/2009

Schedule A to Assignment Page 2

17457902v1

RECORDED: 04/02/2012