

PATENT ASSIGNMENT COVER SHEET

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PROPERTY NUMBERS Total: 11	
Property Type	Number
Patent Number:	7113203
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Patent Number:	6563187
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Patent Number:	6624404
Patent Number:	6180969
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Patent Number:	6489643
Patent Number:	6706550
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Total Attachments: 5 source=ASN IV II LLC to IV Assets 64 LLC 1-12-2018#page1.tif source=ASN IV II LLC to IV Assets 64 LLC 1-12-2018#page2.tif source=ASN IV II LLC to IV Assets 64 LLC 1-12-2018#page3.tif source=ASN IV II LLC to IV Assets 64 LLC 1-12-2018#page4.tif source=ASN IV II LLC to IV Assets 64 LLC 1-12-2018#page5.tif	

ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, Intellectual Ventures II LLC, a Delaware limited liability company with an address at 251 Little Falls Drive, Wilmington, DE 19808 ("**Assignor**"), does hereby sell, assign, transfer, and convey unto Intellectual Ventures Assets 64 LLC, a Delaware limited liability company with an address at 251 Little Falls Drive, Wilmington, DE 19808 ("**Assignee**"), all of Assignor's right, title, and interest in and to the following (collectively, the "**Assigned Patent Rights**");

(a) the patents and patent applications listed in the table below (the "**Patents**");

<u>Patent/ Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and Inventors</u>
7113203 (10/141450)	US	9/26/2006 (5/7/2002)	Method And System For Single-Chip Camera Ben S. Wu; James Cape; Shang-Hung Lin
KR10-0263473 (KR10-1998-0004629)	KR	5/17/2000 (2/16/1998)	Solid State Image Device And Fabrication Method Thereof Jin-Sup Sim; Seo Kyu Lee
6300157 (09/170101)	US	10/9/2001 (10/13/1998)	Solid State Image Sensor And Method For Fabricating The Same Jin Seop Shim; Seo Kyu Lee
6627929 (09/879061)	US	9/30/2003 (6/13/2001)	Solid State CCD Image Sensor Having A Light Shielding Layer Jin Seop Shim; Seo Kyu Lee
KR10-0464955 (KR10-1998-0024711)	KR	12/24/2004 (6/29/1998)	CMOS IMAGE SENSOR INTEGRATED WITH MEMORY DEVICE SANG HOON PARK
6563187 (09/342343)	US	5/13/2003 (6/29/1999)	CMOS Image Sensor Integrated Together With Memory Device Sang Hoon Park

<u>Patent/ Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and Inventors</u>
6949388 (10/436564)	US	9/27/2005 (5/12/2003)	CMOS Image Sensor Integrated Together With Memory Device Park, Sang Hoon
KR10-0303774 (KR10-1998-0061086)	KR	7/13/2001 (12/30/1998)	Method For Fabricating CMOS Image Sensor Ju-IL Lee; Nan-Yi Lee
6348361 (09/476423)	US	2/19/2002 (12/30/1999)	CMOS image sensor having enhanced photosensitivity and method for fabricating the same Ju-IL Lee; Nan-Yi Le
6624404 (09/995215)	US	9/23/2003 (11/26/2001)	CMOS Image sensor having enhanced photosensitivity and method for fabricating the same Ju-IL Lee; Nan-Yi Lee;
KR10-0278285 (KR10-1999-0006036)	KR	10/18/2000 (2/24/1999)	CMOS Image Sensor And Manufacturing Method Thereof Woodward Yang; Ju Il Lee; Nan Yi Lee
DE19908457.2 (DE19908457.2)	DE	7/30/2013 (2/26/1999)	Photodiode Used In CMOS Image Sensing Device Yang Woodward ; Ju Il Lee; Nan Yi Lee
6180969 (09/258307)	US	1/30/2001 (2/26/1999)	CMOS Image Sensor With Equivalent Potential Diode Woodward Yang; Ju Il Lee; Nan Yi Lee
6184055 (09/258814)	US	2/6/2001 (2/26/1999)	CMOS Image Sensor With Equivalent Potential Diode And Method For Fabricating The Same Woodward Yang; Ju Il Lee; Nan Yi Lee

<u>Patent/ Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and Inventors</u>
CNZL99105588.8 (CN99105588.8)	CN	10/13/2004 (2/28/1999)	Complementary MOS Image Sensor And Making Method Thereof Yang Woodward; Chu Il Lee; Ran Ih Lee
CNZL200310104488.4 (CN200310104488.4)	CN	3/26/2008 (2/28/1999)	Image Sensing Device And Its Manufacturing Method Yang Woodward; Chu Il Lee; Ran Ih Lee
FR2775541 (FR9902509)	FR	8/2/2002 (3/1/1999)	Photodiode For Use In A CMOS Image Sensor And Method For Fabricating The Same Yang Woodward; Ju IL Lee; Nan Yi Lee
GB2334817 (GB9904689.8)	GB	7/1/2003 (3/1/1999)	Photodiode For Use In A CMOS Image Sensor And Method For Fabricating The Same Yang Woodward; Ju IL Lee; Nan Yi Lee
GB2383900 (GB0305670.2)	GB	7/22/2003 (3/1/1999)	Cmos Image Sensor And Method For Fabricating The Same Yang Woodward; Ju IL Lee; Nan Yi Lee
JP4390896 (JP11-053234)	JP	10/16/2009 (3/1/1999)	Cmos Image Sensor And Manufacture Thereof Yang Woodward; Ju IL Lee; Nan Yi Lee
TW1141677 (TW088104492)	TW	10/1/2001 (3/22/1999)	CMOS Image Sensor With Equivalent Potential Diode Woodward Yang ; Ju IL Lee; Nan Yi Lee

<u>Patent/ Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and Inventors</u>
FR2779870 (FR9910601)	FR	5/13/2005 (8/18/1999)	Cmos Image Sensor And Method For Fabricating The Same Yang Woodward; Ju IL Lee; Nan Yi Lee
KR10-0275123 (KR10-1998-0024643)	KR	9/19/2000 (6/29/1998)	PINNED PHOTODIODE OF IMAGE SENSOR AND METHOD OF FABRICATING THE SAME LEE NAN I; LEE JOO IL
JP4139931 (JP11-182384)	JP	6/20/2008 (6/28/1999)	Pinned Photodiode Of Image Sensor, And Its Manufacture Lee, Ju Il; Lee, Nan Yi; Cha, Myung-Hwan
6489643 (09/340750)	US	12/3/2002 (6/28/1999)	Photodiode Having A Plurality Of Pn Junctions And Image Sensor Having The Same Lee, Ju Il; Cha, Myung Hwan; Lee, Nan Yi
TWI133257 (TW088111087)	TW	5/28/2001 (6/30/1999)	Photodiode Having A Plurality Of Pn Junctions And Image Sensor Having The Same Lee, Ju-II; Lee, Nan-Yi; Cha, Myung-Hwan
6706550 (10/272842)	US	3/16/2004 (10/16/2002)	Photodiode Having A Plurality Of Pn Junctions And Image Sensor Having The Same Lee, Ju Il; Cha, Myung Hwan; Lee, Nan Yi

(b) any reissues, reexaminations, extensions, continuations, continuing prosecution applications, requests for continuing examinations, divisions, and registrations of any of the Patents and any patents or patent applications which correspond to or claim priority to any of the foregoing, and all foreign counterparts of the foregoing;

(c) rights to apply in any or all countries of the world for future patents, certificates of invention, utility models, industrial design protections, design patent protections, or other future governmental grants or issuances of any type related to the Patents; and

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IN WITNESS WHEREOF this Assignment of Patent Rights is executed
on January 12, 2018.

ASSIGNOR:

Intellectual Ventures II LLC:

By: Tracy Lemke
Name: Tracy Lemke
Title: Authorized Person