504596809 10/17/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KUO-CHENG LEE	05/08/2014
YUN-WEI CHENG	05/07/2014
YUNG-LUNG HSU	05/07/2014
HSIN-CHI CHEN	05/07/2014

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.	
Street Address:	NO. 8, LI-HSIN RD. 6	
Internal Address:	HSINCHU SCIENCE PARK	
City:	HSINCHU	
State/Country:	TAIWAN	
Postal Code:	300-78	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15785595

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 214-651-5000

Email: ipdocketing@haynesboone.com

Correspondent Name: HAYNES AND BOONE, LLP IP SECTION

Address Line 1: 2323 VICTORY AVENUE

Address Line 2: SUITE 700

Address Line 4: DALLAS, TEXAS 75219

ATTORNEY DOCKET NUMBER: 2014-0256/24061.2842US02		
NAME OF SUBMITTER:	JANINE OLINARES	
SIGNATURE:	/Janine Olinares/	
DATE SIGNED:	10/17/2017	
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Total Attachments: 3

PATENT REEL: 043880 FRAME: 0234

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PATENT REEL: 043880 FRAME: 0235

Docket No.: 2014-0256/24061.2842

Customer No.: 000042717

ASSIGNMENT

WHE	REAS, we,		
(1)	Kuo-Cheng Lee	of	No. 31, Dongqiao 8th St., Yongkang Dist. Tainan City 710, Taiwan R.O.C.
(2)	Yun-Wei Cheng	of	9F1, No. 127, Sec. 3, Muzha Rd., Wenshan Dist. Taipei City 116, Taiwan, R.O.C.
(3)	Yung-Lung Hsu	of	No. 67, Lane 199, Yu-De Rd., North District Tainan, Taiwan, R.O.C.
(4)	Hsin-Chi Chen	of	No. 51, Ln. 239, Dingmei 3rd St., West Central Dist. Tainan City 700, Taiwan, R.O.C.

have invented certain improvements in

BACK SIDE ILLUMINATED IMAGE SENSOR WITH DEEP TRENCH ISOLATION STRUCTURES AND SELF-ALIGNED COLOR FILTERS

for which we have executed an application for Letters Patent of the United States of America,

	of even date filed herewith; and
<u>X</u>	filed on April 25, 2014 and assigned application number 14/261,481; and

WHEREAS, we authorize the attorney of record to update this document to include Patent Office information as deemed necessary (i.e., filing date, serial number, etc.);

WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd., ("TSMC"), No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park Hsin-Chu, Taiwan 300-77, Republic of China. is desirous of obtaining the entire right, title, and interest in, to and under the said invention and the said application in the United States of America and in any and all countries foreign thereto;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and other good and valuable consideration, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said TSMC, its successors, legal representatives, and assigns, the entire right, title, and interest in, to and under the said invention, and the said application, and all divisional, renewal, substitutional, and continuing applications thereof, and all Letters Patent of the United States of America which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may be filed for said invention in any country or countries foreign to the United States of America, and all extensions, renewals, and reissues thereof, and all prior patents and patent applications from which a filing priority of the above-described patent application may be obtained, including the right to collect past damages; and we hereby authorize and request the Commissioner of Patents of the United States of America, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said invention to the said TSMC, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

R-363207_1 - 1 -

PATENT REEL: 043880 FRAME: 0236 ywchangl 2014/05/07 14:32:15

Docket No.: 2014-0256/24061.2842

Customer No.: 000042717

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to said TSMC, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid the said TSMC, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

Inventor Name:

Kuo-Cheng Lee

Residence Address:

No. 31, Dongqiao 8th St., Yongkang Dist.

Tainan City 710, Taiwan R.O.C.

Dated: >014/5/8

Inventor Signature

Inventor Name:

Yun-Wei Cheng

Residence Address:

9F.-1, No. 127, Sec. 3, Muzha Rd. Taipei City 116, Taiwan, R.O.C.

Dated: 2014 /5 /7

Inventor Signature

Inventor Name:

Yung-Lung Hsu

Residence Address:

No. 67, Lane 199, Yu-De Rd., North District

Tainan, Taiwan, R.O.C.

Dated 45 57

Intentor Signature

R-363207_1

-2-

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Docket No.: 2014-0256/24061.2842

Customer No.: 000042717

Inventor Name:

Hsin-Chi Chen

Residence Address:

No. 51, Ln. 239, Dingmei 3rd St., West Central Dist. Tainan City 700, Taiwan, R.O.C.

R-363207_1

-3-

PATENT REEL: 043880 FRAME: 0238