504321590 04/14/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KUO-CHIN HUANG	10/27/2014
PAO-TUNG CHEN	10/31/2014
WEI-CHIEH CHIANG	10/27/2014
KAZUAKI HASHIMOTO	10/28/2014
JEN-CHENG LIU	10/27/2014

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15487473

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DATE SIGNED:	04/14/2017

PATENT 504321590 REEL: 042006 FRAME: 0288

Total Attachments: 7 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif

PATENT REEL: 042006 FRAME: 0289

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

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AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled

"IMAGE SENSOR CHIP SIDEWALL INTERCONNECTION" for which:

a non-provisional application for United States Letters Patent:

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\boxtimes	was executed on even date preparatory to filing (each inventor should sign this
	Assignment on the same day as he/she signs the Declaration); or
	was filed on and accorded U.S. Serial No; or
	I hereby authorize and request my attorney associated with Customer No.
	107476, to insert on the designated lines below the filing date and application
	number of said application when known:
	U.S. Serial No,
	filed on .

WHEREAS, ASSIGNEE (listed above), a corporation of the Republic of China is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE its successors and assigns, the entire right, title and interest in and to said invention and improvements, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues, re-examinations and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S)

Attachment 15a
PATENT
REEL: 042006 FRAME: 0291

hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

7.10. >014 Date Name 1st Inventor Kuo-Chin Hyang

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Date /

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Name

me 2nd Inventor Pao-Ťung Chen

7)/10/yolq
Date

Name 3rd Inventor Wei-Chieh Chiang

28, 201, 2014

Name 4th Inventor Kazuaki Hashimoto

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TSMC Docket No. TSMC2014-0971 Docket No. TSMCP496US

Ten - Cheny Lize

Name 5th Inventor Jen-Cheng Liu

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