504854170 04/05/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MING-CHYI LIU	09/24/2014

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.	
Street Address:	NO. 8, LI-HSIN RD. 6	
Internal Address:	SCIENCE-BASED INDUSTRIAL PARK	
City:	HSIN-CHU	
State/Country:	TAIWAN	
Postal Code:	300-77	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15942512

CORRESPONDENCE DATA

Fax Number: (214)200-0853

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:	20140660 / 24061.3440US02	
NAME OF SUBMITTER:	JANIE MARTINEZ-HOLM	
SIGNATURE:	/Janie Martinez-Holm/	
DATE SIGNED:	04/05/2018	

Total Attachments: 1

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PATENT 504854170 REEL: 045445 FRAME: 0086

ASSIGNMENT

hereafter referred to as ASSIGNOR, has/l described and set forth in the below identif	nave invented certa ied application for	ain new and useful improvements a United States Letters Patent:
Title: IMAGE SENSOR AND METHOD Filed: 08/22/2014		
Filed:08/22/2014 Executed on:09/24/2014	Serial No.	14/466,308
WHEREAS, <u>Taiwan Semiconductor Massience-Based Industrial Park</u> , <u>Hsin-Chu</u> ASSIGNEES, is desirous of acquiring ASS and in any U.S. Letters Patent which may be	<u>ı, Taiwan 300-77</u> SIGNOR'S interest	, R.O.C. hereinafter referred to a in the said invention and application
NOW, THEREFORE, TO ALL WHO valuable consideration, receipt of which is sold, assigned and transferred, and by these Assignee, and Assignee's successors and at the said invention and application and all Patent which may hereafter be granted on the and enjoyed by said Assignee as fully and said Assignor had this Assignment and trace the Patent which may be granted thereof in part, substitution, conversion, reissue, present and trace the part of	s hereby acknowled e presents does/do ssigns, all his/her/t future improvement he same in the United exclusively as it was fer not been mandon, or of any division	dged by Assignor, Assignor has/have sell, assign and transfer unto the said heir rights, title and interest in and to its thereon, and in and to any Letter ted States, the said interest to be held would have been held and enjoyed by ade, to the full end and term of any on, renewal, continuation in whole o
Assignor further agrees/agree that but at Assignee's expense, cooperate with applications, execute, verify, acknowled applications for Letters Patent and for the transfer thereof, and will perform such other maintain Letters Patent for said invention. Assignee, or Assignee's successors and assignee.	Assignee in the page and deliver as the reissue thereof, ther acts as Assigned and improvement	rosecution of said application and/o all such further papers, including and instruments of assignment and the lawfully may request, to obtain o

IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the date(s)

WHEREAS, Ming-Chyi LIU

Page 1 of 1

PATENT REEL: 035925 FRAME: 0969

RECORDED: 04/05/2018

indicated.