### 505198724 11/20/2018

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

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CHENG YU HUANG	10/23/2018
CHUN-HAO CHUANG	10/23/2018
CHIEN-HSIEN TSENG	10/23/2018
KAZUAKI HASHIMOTO	10/23/2018
KENG-YU CHOU	10/23/2018
WEI-CHIEH CHIANG	10/23/2018
WEN-HAU WU	10/23/2018

#### **RECEIVING PARTY DATA**

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#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16163908

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NAME OF SUBMITTER:	JAMES R. POTASHNIK
SIGNATURE:	/James R. Potashnik/

505198724 PATENT REEL: 047550 FRAME: 0892

DATE SIGNED:	11/20/2018
Total Attachments: 3	
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PATENT REEL: 047550 FRAME: 0893

JC (3)

# PATENT ASSIGNMENT

# PARTIES TO THE ASSIGNMENT

Assignor(s): Cheng Yu Huang
Assignor(s): Chun-Hao Chuang
Assignor(s): Chien-Hsien Tseng
Assignor(s): Kazuaki Hashimoto
Assignor(s): Keng-Yu Chou
Assignor(s): Wel-Chieh Chiang
Assignor(s): Wen-Hau Wu
Assignee: Taiwan Semiconductor Manufacturing Co., Ltd. No. 8, Li-Hsin Rd. 6, Hsin-Chu Science Park Hsin-Chu, Taiwan 300-77 Republic of China
AGREEMENT
WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled
BAND-PASS FILTER FOR STACKED SENSOR" for which:
a non-provisional application for United States Letters Patent:
oxtimes 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

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TSMC Docket No. P20180226US00 Docket No. TSMCP936US

<u> </u>	I hereby author	ize and	request	my atto	rney a	ssociated	with (	Customer	No.
	<u>107476</u> , to inser	t on the	designat	ed lines	below	the filing	date a	nd applica	ation
	number of said a	pplication	າ when kr	nown:					
	U.S. Serial No.	<del>4</del>	**************************************	·······	, <u>1</u>				
	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) 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

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PATENT REEL: 047550 FRAME: 0895 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.

2018,	10,23
Date	

Name 1st Inventor Cheng Yu Huang

2018	10	ら
Date		***************************************

Name Chun-Hao Chuang.

2nd Inventor Chun-Hao Chuang

201	8,	10,	23
Date		***************************************	*************

Name 3rd Inventor Chien-Hsien Tserig

2018	0	.23
Date	 	

Name 4th Inventor Kazuaki Hashimoto

2018.	10.	23
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Name 5th Inventor Keng-Yu Chou

>0 17, 10, x5

Name Wei-Chieh Chiang

2018 10 23 Date

Name 7th Inventor Wen-Hau Wu

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