507684962 01/09/2023

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7732104

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BO-TSUNG TSAI	10/03/2017

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.
Street Address:	8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK
City:	HSINCHU
State/Country:	TAIWAN
Postal Code:	300-78

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	18151917

CORRESPONDENCE DATA

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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NAME OF SUBMITTER:	RANDY A. NORANBROCK
SIGNATURE:	/Randy A. Noranbrock/
DATE SIGNED:	01/09/2023

Total Attachments: 1

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PATENT REEL: 062316 FRAME: 0107

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ASSIGNMENT

in consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

Bo-Tsung TSAI

RECORDED: 01/09/2023

who has made a certain new and useful invention, hereby sells, assigns and transfers unto TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD., having a place of business at No. 8, Li-Hsin Rd. VI. Hsinchu Science Park, Hsinchu 300, Taiwan R.O.C.

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America

as de	fined in 35 U.S.C. 100 in the invention entitled	
<u>CO</u>	MPLEMENTARY METAL-OXIDE-SEMICONDUCTOR IMAGE SENSO	RAND
FAE	BRICATION METHOD THEREFORE	
(a)	for which an application for United States Letters Patent was filed on 2017-09-28	, and identified by
	United States Patent Application No. <u>15/718,318</u> ; or	
(b)	for which an application for United States Letters Patent was executed on	
all Un contin	he undersigned hereby authorizes and requests the United States Commissioner of Patents and Transied States Letters Patent which may be granted therefore and any and all extensions, divisions, nuations-in-part thereof, and the right to all benefits under the International Convention for the erry to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal represes that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE.	reissues, contimuations, or re Protection of Industrial
ASSI appli ASSI	AND the undersigned hereby agrees to transfer a like interest, and to render all necess cation for and obtaining original, divisional, reissued or extended Letters Patent of the United State GNEE, its successors, assigns and legal representatives, and without further remuneration, in and cations for patent based thereon, growing out of or related to the said invention; and to execution for successors, assigns and legal representatives, deemed essential to ASSIGNEE's full provention hereby transferred.	es, upon request of the said to any improvements, and te any papers by the said
SIGN	IED on the date indicated aside my signature:	

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Date:

PATENT REEL: 062316 FRAME: 0108