504398666 06/06/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BING-CHIAN LIN	06/01/2017
REN-FEN TSUI	06/01/2017

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15609167

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	252028-2200
NAME OF SUBMITTER:	DANIEL R. MCCLURE
SIGNATURE:	/Daniel R. McClure/
DATE SIGNED:	06/06/2017

Total Attachments: 2

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PATENT 504398666 REEL: 042610 FRAME: 0277

ASSIGNMENT

This assignment agreement is applicable to an invention entitled (Invention Title)				
MEMORY DEVICE AND FABRICATION METHOD THEREOF				
The PATENT RIGHTS referred to in this agreement	are:			
(check one) a patent application for this invention,	executed by the ASSIGNOR(S)			
concurrently with this assignment.				
☑U.S. patent application Serial No. 15/6	09,167 ,filed May 31, 2017			
a U.S. patent application based on PC	la International Application			
Nofiled on (date)	(U.S. patent application			
Serial No, if known).				
U.S. patent No, issued				
The PATENT RIGHTS also include all divisions, reis	ssues, continuations and extensions of			
the patents and patent applications identified above.				
The PATENT RIGHTS assigned under this agreement	at are:			
(check one) ⊠U.S. patent rights only.				
Worldwide patent rights. In this case, t	he assignee shall have the right to			
claim the benefit of the filing date of a	ny U.S. or foreign patent application			
for this invention.				
The ASSIGNOR(S) referred to in this agreement is (c	or are) the inventor(s) whose signatures			
appear on page 2 of this Assignment and any Supplement	nental Sheet(s).			
The ASSIGNEE referred to in this agreement is:				
(Name of Assignee) TAIWAN SEMICONDUCTOR I	MANUFACTURING CO., LTD.			
(Address) NO.8, LI-HSIN RD.6, SCIENCE-BASED	INDUSTRIAL PARK, HSINCHU,			
TAIWAN 300, R.O.C.				
The ASSIGNEE is:				
(check one) ☐ An individual.				
A Partnership.				
A Corporation of <u>TAIWAN, R.O.C</u>	(specify state or country)			
(other)				
The ASSIGNOR(S), in consideration of \$10.00 paid 1	•			
valuable consideration, receipt of which is acknowled	ged, hereby assign(s) the following			
rights to the ASSIGNEE, its successors and assigns:				
the full and exclusive right to the invention;				
the entire right, title and interest in and to the PATENT RIGHTS;				

the right to sue and recover for any past infringement; and

provisions, based on any earlier patent applications for this invention.

the right to claim priority under 35 USC 119, 35 USC 120, or any other applicable

PATENT REEL: 042610 FRAME: 0278 bclist 17/06/01 11:07:11

RECORDED: 06/06/2017

THIS IS PAGE 2 OF AN ASSIGNMENT FROM THE INVENTOR(S) TO ASSIGNEE: TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD. INVENTION TITLE: MEMORY DEVICE AND FABRICATION METHOD THEREOF

As to all U.S. patent applications assigned under this agreement, the ASSIGNOR(S) hereby authorize(s) and request(s) the Commissioner of Patents and Trademark to issue all Letters Patent to the ASSIGNEE as the assignee of the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE, its successors and assigns.

Further, the ASSIGNOR(S) agree(s) to communicate to said ASSIGNEE, or its representatives, any fact known to the ASSIGNOR(S) with respect to said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause and all Letter Patent to be issued to said ASSIGNEE, make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention.

The ASSIGNOR(S) authorize(s) the attorneys and agents who have the power of attorney in this application to check any appropriate boxes and to insert the Serial Number and filing date in this document after it has been executed.

Bing-Chian LIN	Bing-China Lin	20/1-06-0
Name of sole or first inventor	Signature	Date
Ren-Fen TSUI	Ken-Then Tsui	2017.06.01
Name of second inventor, if any	Signature	Date

PATENT REEL: 042610 FRAME: 0279