503930844 07/26/2016

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3977498

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
WEI CHENG WU	07/15/2016
CHIEN-HUNG CHANG	07/15/2016

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15205221

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NAME OF SUBMITTER:	DAVID W. POTASHNIK
SIGNATURE:	/David W. Potashnik/
DATE SIGNED:	07/26/2016

Total Attachments: 4

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> **PATENT** REEL: 039255 FRAME: 0424 503930844

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PATENT REEL: 039255 FRAME: 0425

PATENT ASSIGNMENT

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Assignor(s):

Wei Cheng Wu

Assignor(s):

Chien-Hung Chang

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

"NVM MEMORY HKMG INTEGRATION TECHNOLOGY" 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

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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

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PATENT PATENT REEL: 039255 FRAME: 0426 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 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.

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PÁTÉNT^{15a} REEL: 039255 FRAME: 0427

TSMC Docket No. P20151227US00 Docket No. TSMCP703US

70(6,7,15 Date

lame 1st Inventor Wei

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TSMC Docket No. P20151227US00 Docket No. TSMCP703US

Jul-15, 2016
Date

Name 2nd Inventor Chien-Hung Chang

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Jan 2008

RECORDED: 07/26/2016

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