506217170 08/24/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6263913

SUBMISSION TYPE:		NEW	ASSIGNMENT				
NATURE OF CONVEYAN	ICE:	ASSI	GNMENT				
CONVEYING PARTY DA	ATA						
		Name	•			Execu	tion Date
HUNG-LI CHIANG						06/30/2	020
CHAO-CHING CHENG						06/30/2	020
JUNG-PIAO CHIU						07/01/2	020
TZU-CHIANG CHEN					06/30/2020		
YU-SHENG CHEN						06/30/2	020
RECEIVING PARTY DA	 TA						
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.						
Street Address:	NO. 8, I	LI-HSIN RD). 6				
Internal Address:	HSIN-C	HU SCIEN	CE PARK				
City:	HSIN-C	CHU					
State/Country:	TAIWA	N					
	300-77						
Postal Code:	300-77						
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PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s): Hung-Li Chiang

Assignor(s): Chao-Ching Cheng

Assignor(s): Jung-Piao Chiu

Assignor(s): Tzu-Chiang Chen

Assignor(s): Yu-Sheng Chen

Assignee: Taiwan Semiconductor Manufacturing Co., Ltd. No. 8, Li-Hsin Rd. 6, Hsin-Chu Science Park Hsin-Chu, Taiwan 300-77 Republic of China

<u>AGREEMENT</u>

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled

"DATA STORAGE ELEMENT AND MANUFACTURING METHOD THEREOF" for which:

a non-provisional application for United States Letters Patent:

 \boxtimes was executed on even date preparatory to filling (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

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

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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 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.

<u>2020.6.30</u> Date

Mug-hi Gienz Name 1th Inventor Hung-Li Chiếng

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Date

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Name 2nd Inventor Chao-Ching Cheng

<u>>+0>√/// |</u> Date

Jung-Pao, Chiq. Name 3" Inverter Jung-Piao Chiu

· ,

2074.6.30 Date

 Tzu-Chirang Chen

 Name
 4th Inventor Tzu-Chiang Chen

<u>2-0-20 - 6 - 30</u> Date

Tu-Shong A.M. Name 5th Inventor Yu-Sheng Chen

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