506085204 06/01/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT		
CONVEYING PARTY D	ΑΤΑ	· · ·		
		Name	Execution Date	
SSU-YU CHEN			04/16/2020	
SHANG-CHIEH CHIEN			04/21/2020	
LI-JUI CHEN			04/24/2020	
RECEIVING PARTY DA	TA			
Name: TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.				
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Internal Address:	SCIENCE-BASED INDUSTRIAL PARK			
City:	HSINCHU			
State/Country:	TAIWAN			
Postal Code:	300			
Application Number:	1	6787947		
Application Number:	1	6787947		
	ΑΤΑ			
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ATTORNEY DOCKET NUMBER:		T1516.10666US01	T1516.10666US01	
NAME OF SUBMITTER:		R. BURNS ISRAELSEN		
SIGNATURE:		/R. Burns Israelsen/	/R. Burns Israelsen/	
DATE SIGNED:		06/01/2020	06/01/2020	
Total Attachments: 2				
source=T1516-10666US0 source=T1516-10666US0	_			

ASSIGNMENT

This assignment agreement is applicable to an invention entitled (Invention Title) EXTREME ULTRAVIOLET LITHOGRAPHY SYSTEM WITH HEATED TIN VANE BUCKET HAVING A HEATED COVER

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. <u>16/787,947</u>, filed February 11, 2020

a U.S. patent application based on PCT International Application

No._____filed on (date)_____(U.S. patent application

Serial No._____, if known).

U.S. patent No.____, issued____.

The PATENT RIGHTS also include all divisions, reissues, continuations and extensions of the patents and patent applications identified above.

The PATENT RIGHTS assigned under this agreement are:

 \boxtimes U.S. patent rights only.

The ASSIGNOR(S) referred to in this agreement is (or are) the inventor(s) whose signatures appear on page 2 of this Assignment and any Supplemental Sheet(s).

The ASSIGNEE referred to in this agreement is:

(*Name of Assignee*) <u>TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.</u> (*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*)

The ASSIGNOR(S), in consideration of \$10.00 paid by the ASSIGNEE, and other good and valuable consideration, receipt of which is acknowledged, 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

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

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

THIS IS PAGE 2 OF AN ASSIGNMENT FROM THE INVENTOR(S) TO ASSIGNEE: TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD. INVENTION TITLE: EXTREME ULTRAVIOLET LITHOGRAPHY SYSTEM WITH HEATED TIN VANE BUCKET HAVING A HEATED COVER

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.

Ssu-Yu CHEN Name of sole or first inventor SSU-YU CHEN

202014/16

Signature

Date

2020, 4, 2/ Date 2020/4/24

Shang-Chieh CHIEN Name of second inventor, if any

<u>ShangChich Chien</u> Signature W-Jni Chu

Li-Jui CHEN

Name of third inventor, if any

Signature

Date