503270162 04/19/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3316780

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA	•	
	Name	Execution Date
PO-SHING YU		04/13/2015
TING-HAO WANG		04/13/2015
SHIH-HAN YEH		04/13/2015

RECEIVING PARTY DATA

Name:	GLOBAL UNICHIP CORPORATION
Street Address:	NO. 10, LI-HSIN 6TH ROAD, HSINCHU SCIENCE PARK
City:	HSINCHU CITY
State/Country:	TAIWAN
Postal Code:	30078
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.
Street Address:	NO.8, LI-HSIN RD.6, SCIENCE-BASED INDUSTRIAL PARK
City:	HSINCHU
State/Country:	TAIWAN
Postal Code:	300

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14686763

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER		TWT03814/US
NAME OF SUBMITTER:		JAMES LYNN O'SULLIVAN

SIGNATURE:	/James Lynn O'Sullivan/	
DATE SIGNED:	04/19/2015	
Total Attachments: 2 source=TWT03814US-Assignment#page1.tif source=TWT03814US-Assignment#page2.tif		

Inventor(s)-to-Assignee

ASSIGNMENT

This assignment agreement is applicable to an invention entitled (Invention Title)_____

CIRCUIT AND METHOD FOR CLOCK AND DATA RECOVERY

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._____filed_____

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:

(check one) \boxtimes U.S. patent rights only.

Worldwide patent rights. In this case, the assignee shall have the right to claim the benefit of the filing date of any U.S. or foreign patent application for this invention.

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) 1.GLOBAL UNICHIP CORPORATION

2. TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.

(Address) 1. NO. 10, LI-HSIN 6TH ROAD, HSINCHU SCIENCE PARK, HSINCHU CITY 30078, TAIWAN, R.O.C.

2.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>1.TAIWAN, R.O.C.</u> <u>2.TAIWAN, R.O.C.</u> (specify state or country)

[](other)_____

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 PATENT

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

THIS IS PAGE 2 OF AN ASSIGNMENT FROM THE INVENTOR(S) TO

ASSIGNEE: 1.GLOBAL UNICHIP CORPORATION

2. TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD. INVENTION TITLE: CIRCUIT AND METHOD FOR CLOCK AND DATA RECOVERY

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.

Po-Shing YU Name of sole or first inventor

Ting-Hao WANG Name of second inventor, if any

Shih-Han YEH Name of third inventor, if any

Signature

April 13, 2015 Date

hvg Ting-Hao mature jih-Han Yeh

April 13, 2015

April 13, 2015

Date

Date

RECORDED: 04/19/2015