PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5189229

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHAO-FU SANFORD CHU	08/23/2018

RECEIVING PARTY DATA

Name:	YANGTZE MEMORY TECHNOLOGIES CO., LTD.		
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State/Country:	CHINA		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16138994

CORRESPONDENCE DATA

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	,
ATTORNEY DOCKET NUMBER:	10018-01-0004-US
NAME OF SUBMITTER:	ZHIWEI ZOU
SIGNATURE:	/Zhiwei Zou/
DATE SIGNED:	10/15/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 3

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PATENT REEL: 047170 FRAME: 0549 505142463

COMBINED DECLARATION AND ASSIGNMENT

DECLARATION

As the	below named inventors, I hereby declare that:
This d	eclaration is directed to:
\boxtimes	The attached application, or
	United States application or PCT international application number
	filed on
The ab	ove-identified application was made or authorized to be made by me.
I belie invention in th	we that I am the original inventor or an original joint inventor of a claimed application.
	by acknowledge that any willful false statement made in this declaration is der 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or
	ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the below named inventors, each of the below named inventors, hereby sell and assign to Yangtze Memory Technologies Co., Ltd., a corporation formed under the laws of China, whose mailing address is 18 Gaoxin 4th Road, East Lake High-Teeh Development Zone, Wuhan, Hubei, China (hereafter referred to as the Assignce), his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world,

- (a) in the invention(s) known as STAIRCASE STRUCTURES FOR THREE-DIMENSIONAL MEMORY DEVICE DOUBLE-SIDED ROUTING for which application(s) for patent in the United States of America is identified above, in any and all applications thereon, in any and all Letters Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application identified above in part (a), including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

PATENT REEL: 047170 FRAME: 0550 (c) in any and all inventions described in the patent application identified above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The below named inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The below named inventors agree to execute all papers necessary in connection with any patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such patent enforcement action.

The below named inventors hereby represent that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The below named inventors hereby represent that he/she understands that the patent practitioners associated with CUSTOMER NUMBER 153988 are the legal representatives of, and attorneys for, the assignce, and are NOT the legal representatives of, and attorneys for, the inventors.

Appl. No. To Be Assigned Atty. Docket No. 10018-01-0004-PCT

IN WITNESS WHEREOF, executed by the below named inventors on the date opposite his/her name.

LEGAL NAME OF INVENTOR

RECORDED: 10/15/2018

Inventor: SI	120-Fu Sanford Cl	iu <u>a</u> Date:	20118/8/23	
Signature of In	sventor:	W/L	,	

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