507632932 12/06/2022

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JIAHUI LUO	10/19/2022
TAOTAO ZHU	10/18/2022
CHANG LIU	10/18/2022

RECEIVING PARTY DATA

Name:	T-HEAD (SHANGHAI) SEMICONDUCTOR CO., LTD.
Street Address:	5TH FLOOR NUMBER 2 CHUAN HE ROAD 55, NUMBER 366 SHANG KE ROAD, SHANGHAI FREE TRADE AREA
City:	SHANGHAI
State/Country:	CHINA

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17510198

CORRESPONDENCE DATA

Fax Number: (408)938-9069

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 408-938-9060

Email: cholland@mhbpatents.com

Correspondent Name: MURABITO, HAO & BARNES LLP Address Line 1: 111 NORTH MARKET STREET

Address Line 2: 7TH FLOOR

Address Line 4: SAN JOSE, CALIFORNIA 95113

ATTORNEY DOCKET NUMBER:	BABT-A30408US
NAME OF SUBMITTER:	JAMES P. HAO
SIGNATURE:	/James P. Hao/
DATE SIGNED:	12/06/2022

Total Attachments: 3

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PATENT 507632932 REEL: 062000 FRAME: 0888

Attorney Docket No.:	BABT-A30408US

Assignment to T-Head (Shanghai) Semiconductor Co., Ltd.

in consideration of g	good and valuable co	nsideran	on, receipt of which	is nereby acknow	vieagea, i/	we
Jiahui LUO			_			
do hereby sell, assig	n, and transfer unto	Γ-Head (Shanghai) Semicond	luctor Co., Ltd. a	Corporati	on
having its principal	place of business at 5	^{5th} Floor 1	Number 2 Chuan He	Road 55, Number	er 366 <mark>S</mark> ha	ıng Ke
Road, Shanghai Free	e Trade Area, China	and its su	ccessors and assigns	s, the entire right,	title, and	interest
for the United States	s and all foreign coun	ntries, in a	and to any and all in	provements, incl	uding the	right of
priority in, to, and u	nder, the application	for the U	Inited States patent e	entitled:		
INICTDI ICTIONI	TD A NICMITTINIC	LINIT	INCTRICTION	EVECUTION	LINIT	AND

INSTRUCTION TRANSMITTING UNIT, INSTRUCTION EXECUTION UNIT, AND RELATED APPARATUS AND METHOD

filed herewith and the inventions set forth and described therein, and any and all Letters Patent of the

United States and of countries foreign thereto which may be granted thereon or therefor; or

X Serial No.: 17/510,198 filed on 10-25-2021 and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor;

And for the above consideration, I/we agree promptly upon request of T-Head (Shanghai) Semiconductor Co., Ltd. its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to T-Head (Shanghai) Semiconductor Co., Ltd., its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by T-Head (Shanghai) Semiconductor Co., Ltd..

I/we further covenant with T-Head (Shanghai) Semiconductor Co., Ltd. its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned;

In witness whereof, I/we hereunto set my/our hand(s) and seal:

Inventor's Signature:	Siahani LVO	Date:	2027.10.19
	Jiahui LUO		

Assignment to T-Head (Shanghai) Semico	nductor Co., Ltd.
In consideration of good and valuable consideration, receip Taotao ZHU	ot of which is hereby acknowledged, I/we
do hereby sell, assign, and transfer unto T-Head (Shanghai having its principal place of business at 5th Floor Number Road, Shanghai Free Trade Area, China and its successors for the United States and all foreign countries, in and to an priority in, to, and under, the application for the United States	2 Chuan He Road 55, Number 366 Shang Ke and assigns, the entire right, title, and interest y and all improvements, including the right of
INSTRUCTION TRANSMITTING UNIT, INSTRUCTION APPARATUS AND METHOD	ON EXECUTION UNIT, AND RELATED
filed herewith and the inventions set forth and describ	ped therein, and any and all Letters Patent of
United States and of countries foreign thereto which n	nay be granted thereon or therefor; or
X Serial No.: 17/510,198 filed on 10-25-2021 and described therein, and any and all Letters Patent thereto which may be granted thereon or therefor;	and the inventions set forth of the United States and of countries foreign
And for the above consideration, I/we agree prom Semiconductor Co., Ltd. its successors or assigns, to exect any power of attorney, assignment, application, whether cother papers which may be necessary or desirable fully to Co., Ltd., its successors and assigns, the inventions describerein, in the United States and in any country foreign prosecution of interference proceedings involving sa reexamination of said Letters Patent provided the expense such cooperation and assistance are paid by T-Head (Shan	ute and deliver without further compensation riginal, continuation, divisional or reissue, or secure to T-Head (Shanghai) Semiconductor ribed in said application and all patent rights a thereto, and to cooperate and assist in the id inventions and in the adjudication or s which may be incurred by me/us in lending
I/we further covenant with T-Head (Shanghai) Semicondurepresentatives that no assignment, grant, mortgage, licens property herein conveyed has been made to others by the same as herein expressed is possessed by the undersigned;	se, or other agreement affecting the rights and
In witness whereof, I/we hereunto set my/our hand(s) and seal:	
Inventor's Signature:	Date: 2022/30/18

Attorney Docket No.: BABT-A30408US

Attorney Docket No.:	BABT-A30408US

Assignment to T-Head (Shanghai) Semiconductor Co., Ltd.

In consideration of good and valuable consideration, receipt of which is hereby acknowledged, I/we **Chang LIU**

do hereby sell, assign, and transfer unto T-Head (Shanghai) Semiconductor Co., Ltd. a Corporation having its principal place of business at 5th Floor Number 2 Chuan He Road 55, Number 366 Shang Ke Road, Shanghai Free Trade Area, China and its successors and assigns, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements, including the right of priority in, to, and under, the application for the United States patent entitled:

INSTRUCTION TRANSMITTING UNIT, INSTRUCTION EXECUTION UNIT, AND RELATED APPARATUS AND METHOD

filed herewith and the inventions set forth and described therein, and any and all Letters Patent of the

United States and of countries foreign thereto which may be granted thereon or therefor; or

X Serial No.: 17/510,198 filed on 10-25-2021 and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor;

And for the above consideration, I/we agree promptly upon request of T-Head (Shanghai) Semiconductor Co., Ltd. its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to T-Head (Shanghai) Semiconductor Co., Ltd., its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by T-Head (Shanghai) Semiconductor Co., Ltd..

I/we further covenant with T-Head (Shanghai) Semiconductor Co., Ltd. its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned;

In witness whereof, I/we hereunto set my/our hand(s) and seal:

Inventor's Signature: Date: 2022/10/18
Chang LIU

Page 1

PATENT REEL: 062000 FRAME: 0891

RECORDED: 12/06/2022