

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6434641

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HUILONG ZHU	12/03/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	INSTITUTE OF MICROELECTRONICS, CHINESE ACADEMY OF SCIENCES
<b>Street Address:</b>	NO.3 BEITUCHENG WEST ROAD, CHAOYANG DISTRICT
<b>City:</b>	BEIJING
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	100029
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	17112343
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(703)770-7901
<i>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.</i>	
<b>Phone:</b>	703-770-7900
<b>Email:</b>	cathy.fitzgerald@pillsburylaw.com
<b>Correspondent Name:</b>	PILLSBURY WINTHROP SHAW PITTMAN, LLP
<b>Address Line 1:</b>	PO BOX 10500
<b>Address Line 4:</b>	MCLEAN, VIRGINIA 22102
<b>ATTORNEY DOCKET NUMBER:</b>	017106-0516339
<b>NAME OF SUBMITTER:</b>	CATHY M. FITZGERALD
<b>SIGNATURE:</b>	/Cathy M. FitzGerald/
<b>DATE SIGNED:</b>	12/07/2020
<b>Total Attachments: 2</b>	
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source=017106-0516339-Executed-Assignment#page2.tif	

**ASSIGNMENT**

In consideration of the sum of Ten Dollars (\$10.00) and/or other good and valuable consideration received by the ASSIGNOR(s), namely:

<b>INSERT</b>	Huilong ZHU	
<b>NAME(S) OF</b>		
<b>ASSIGNOR(S)</b>		

the receipt and sufficiency of which are hereby acknowledged by the ASSIGNOR(s), the ASSIGNOR(s) hereby sells(s), assign(s) and transfer(s) unto:

<b>INSERT</b>	INSTITUTE OF MICROELECTRONICS, CHINESE ACADEMY OF SCIENCES
<b>NAME(S) OF</b>	No.3 Beitucheng West Road, Chaoyang District
<b>ASSIGNEE(S)</b>	Beijing, 100029, China
<b>&amp;</b>	
<b>ADDRESS(ES)</b>	

its or their successors, assigns and legal representatives (together and individually hereinafter "ASSIGNEE") and to the extent already assigned or transferred to ASSIGNEE by operation of law or by a general obligation between the ASSIGNOR(s) and ASSIGNEE, the ASSIGNOR(s) hereby confirm(s) and formalize(s) the assignment and transfer to ASSIGNEE of, the entire and exclusive right, title and interest for the United States of America, in, to and under the invention(s), improvements thereof, and all patent applications (including without limitation all patent applications claiming priority and/or benefit, including without limitation all divisional, continuation, continuation-in-part, substitute, renewal and reissue applications), patents (including without limitation extensions, reissues and renewals thereof), and other intellectual property protection (including without limitation all utility models, designs and inventor certificates, and applications, extensions, renewals and reissues for the same) therefor, together with, though not in any way of limitation, all rights of priority under the International Convention for the Protection of Industrial Property and all other laws and international agreements, the right to apply for patents in ASSIGNEE's name(s), and all rights of recovery for past, present or future infringement thereof, known as

**TITLE OF INVENTION** SEMICONDUCTOR DEVICE WITH U-SHAPED CHANNEL AND ELECTRONIC APPARATUS INCLUDING THE SAME

for which a patent application was executed and/or filed for:

**NOTE** → → (A)  even date herewith  
 (Complete (B)  on \_\_\_\_\_  
 line A, B and/or (C)  in U.S. Appln. No. \_\_\_\_\_ filed \_\_\_\_\_  
 C) \_\_\_\_\_

AND the ASSIGNOR(s) hereby authorize(s) and request(s) any government agency, office or official whose duty includes issuing patents or other evidence or forms of intellectual property protection on or for the aforesaid invention(s) and application(s), to issue the same to ASSIGNEE, as the assignee(s) of all rights, title, interests thereto and/or as the applicant(s) therefor;

AND the ASSIGNOR(s) agree(s) that the attorney of record in the aforesaid application(s) shall

hereinafter act on behalf of ASSIGNEE;

AND the ASSIGNOR(s) agree(s), without further remuneration, to communicate to ASSIGNEE any facts known to the ASSIGNOR(s) respecting the aforesaid invention(s), and all related patent applications, patents, and other intellectual property protection mentioned above, and to testify in any legal proceeding, sign any lawful papers, execute any applications, make any rightful oaths or declarations, and generally provide all assistance, cooperation and information reasonably necessary for ASSIGNEE to perfect title in, prepare, complete, prosecute, obtain, maintain, preserve, enforce and/or defend the aforesaid invention(s) and all related patent applications, patents and other intellectual property protection mentioned above, and grant(s) ASSIGNEE a perpetual and irrevocable power of attorney to execute and sign in the name(s) and on behalf of the ASSIGNOR(s) any documents of any nature in pursuit of the aforesaid;

AND the ASSIGNOR(s) agree(s) not to contest or aid in contesting the validity, enforceability or ownership of the aforesaid invention(s) and all related patent applications, patents, and other intellectual property protection mentioned above;

AND the ASSIGNOR(s) represent(s) and warrant(s) to have the full right to convey the subject matter herein assigned, to have obtained the consent, if applicable, of all joint owners and all inventors to the subject matter assigned herein, to have not made and will not make any agreement or license in conflict herewith, and to have not encumbered and will not encumber by any grant, license or right the subject matter herein assigned;

AND the ASSIGNOR(s) hereby authorize(s) any attorneys or other representatives of ASSIGNEE to insert hereon any further identification necessary or desirable for recordation of this document, including without limitation any applicable patent or patent application number;

AND, where permitted by law, the ASSIGNOR(s) agree(s) that the agreement herein supersedes, modifies and/or supplements the law to the extent the agreement herein provides ASSIGNEE greater rights and protections than available under the law;

AND the ASSIGNOR(s) irrevocably waive their rights to rescind the agreement herein;

AND the ASSIGNOR(s) and ASSIGNEE agree that if any provision of the agreement herein is deemed to be unenforceable, void, illegal or invalid, it shall be modified so as to make it valid and enforceable, and as so modified the agreement herein shall remain in full force and effect.

**ASSIGNOR(S)**

**DATE  
SIGNED**



2020/12/03

Name:

**Huilong ZHU**