

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HAO TONG	12/09/2020
QING HU	12/09/2020
YUHUI HE	12/09/2020
XIANGSHUI MIAO	12/09/2020
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17259191
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Total Attachments: 3	
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**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

Declaration Submitted With Initial Filing

OR

Declaration Submitted After Initial Filing (surcharge 37 CFR 1.16(f) required)

(Title of the Invention)

**THREE-DIMENSIONAL CONVOLUTION OPERATION DEVICE AND
METHOD BASED ON THREE-DIMENSIONAL PHASE CHANGE MEMORY**

As a below named inventor (hereinafter designated as the undersigned), I hereby declare that:

This declaration is directed to:

The attached application,

OR

United States Application Number or PCT International application number

 PCT/CN2020/092784 Filed on 2020/05/28

The above-identified application was made or authorized to be made by me.

I believe I am the original inventor or an original joint inventor of a claimed invention in the application.

The undersigned hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified.

WHEREAS, 1. HUAZHONG UNIVERSITY OF SCIENCE AND TECHNOLOGY
of NO.1037, Luoyu Road, Hongshan District Wuhan, Hubei 430074 China

hereinafter referred to as ASSIGNEE, is desirous of acquiring the undersigned's interest in the said invention and application and in any U.S. Letters Patent which may be granted on the same:

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by the undersigned, the undersigned has/have sold, assigned and transferred, and by these presents does/do sell, assign and transfer unto the said Assignee, and Assignee's successors and assigns, all his/her/their rights, title and interest in and to the said invention and application and all future improvements thereon, and in and to any Letters Patent which may hereafter be granted on the same in the United States, the said rights, title and interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said the undersigned had this Assignment and transfer not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

The undersigned further agrees/agree that he/she/they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee Lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

Signature: Hao Tong Date: 2020.12.9

Legal Name of Sole or First Inventor: **Hao TONG**

Residence: Hubei, China

Mailing Address: NO.1037, Luoyu Road, Hongshan District Wuhan, Hubei 430074 China

Signature: Qing Hu Date: 2020.12.9

Legal Name of Additional Joint Inventor, if any: **Qing HU**

Residence: Hubei, China

Mailing Address: NO.1037, Luoyu Road, Hongshan District Wuhan, Hubei 430074 China

Signature: Yuhui He Date: 2020.12.9

Legal Name of Additional Joint Inventor, if any: **Yuhui HE**

Residence: Hubei, China

Mailing Address: NO.1037, Luoyu Road, Hongshan District Wuhan, Hubei 430074 China

Signature: Xiangshui Miao Date: 2020/12/09

Legal Name of Additional Joint Inventor, if any: **Xiangshui MIAO**

Residence: Hubei, China

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