12/25/2018 505251848

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PEI-I TSAI	11/29/2018
HSIN-HSIN SHEN	11/29/2018
KUO-YI YANG	11/29/2018
DE-YAU LIN	11/29/2018
YI-HUNG WEN	11/29/2018
CHIH-CHIEH HUANG	11/29/2018
WEI-LUAN FAN	11/29/2018
PEI-YU CHEN	11/29/2018
CHING-CHI HSU	11/29/2018

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PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	16224809	

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> **PATENT** REEL: 047849 FRAME: 0961

505251848

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NAME OF SUBMITTER: BELINDA LEE

SIGNATURE: /Belinda Lee/

DATE SIGNED: 12/25/2018

Total Attachments: 5

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PATENT REEL: 047849 FRAME: 0962

ASSIGNMENT

WHEREAS.

1.Pei-l Tsai 3.Kuo-Yi Yang 5.Yi-Hung Wen 7.Wei-Luan Fan 9.Ching-Chi Hsu 2.Hsin-Hsin Shen 4.De-Yau Lin 6.Chih-Chieh Huang 8.Pei-Yu Chen

hereinafter referred to as ASSIGNOR, has/have invented certain new and useful improvements as described and set forth in the below identified application for United States Letters Patent:

Title: ARTIFICIAL JOINT

[] Filed:

Serial No.

[x] Executed concurrently with the execution of this instrument

WHEREAS, 1. Industrial Technology Research Institute No. 195, Sec. 4, Chung Hsing Rd., Chutung, Hsinchu 31040, Taiwan, R. O. C.

> 2. National Taiwan University Hospital of No.7, Zhongshan S. Rd., Zhongzheng Dist., Taipei City 100, Taiwan (R.O.C.)

hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'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 Assignor, Assignor 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 Assignor 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.

Assignor 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.

ASSIGNMENT CONTINUED

IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the date(s) indicated.

Signature: Sole or First Joint Inventor: Pei-I Tsai	
Signature: HSin-HSin Shon Second Joint Inventor (if any): Hsin-Hsin Shen	_Date: _>0 & (1 _> 9
Signature: Aut - Yn Hang Third Joint Inventor (if any): Kuo-Yi Yang	_Date: <u>2018/11/29</u>
Signature: Fourth Joint Inventor (if any): De-Yau Lin	Date:
Signature: T-Hung Wen Fifth Joint Inventor (if any): Yi-Hung Wen	Date: 2018/11/59
Signature: Chip Chich V (um) Sixth Joint Inventor (if any): Chih-Chieh Huang	Date: 2018/11/29
Signature: Wei-Luan Fan Seventh Joint Inventor (if any): Wei-Luan Fan	_Date:
Signature:	_Date:

ASSIGNMENT CONTINUED

IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the date(s) indicated.

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Sole or First Joint Inventor: Pei-I Tsai	
Signature:	_Date:
Second Joint Inventor (if any): Hsin-Hsin Shen	
Signature:	_Date:
Third Joint Inventor (if any): Kuo-Yi Yang	
Signature: Ve - Yau Lin	_Date: 2018 . 11. 29
Fourth Joint Inventor (if any): De-Yau Lin	, ,
Signature:	_Date:
Fifth Joint Inventor (if any): Yi-Hung Wen	
Signature:	_Date:
Sixth Joint Inventor (if any): Chih-Chieh Huang	
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Seventh Joint Inventor (if any): Wei-Luan Fan	
Signature:	_Date:
Eighth Joint Inventor (if any): Pei-Yu Chen	

ASSIGNMENT CONTINUED

IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the date(s) indicated:

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Second Joint Inventor (if any). Hsin-Hsin Shen	
Signature:	Date:
Third Joint Inventor (if any): Kuo-Yi Yang,	
	•
Signature:	Date:
Fourth Joint Inventor (if any): De-Yau Lin	
Śignature;	Date:
Fifth Joint Inventor (if any): Yi-Hung Wen	
Signature:	Date:
Sixth Joint Inventor (if any): Chih-Chieh Huang	
Signature:	Date:
Seventh Joint Inventor (if any): Wei-Luan Fan	
Signature: Pei-yu Chen	Date: Nov 29, 7018
Eighth Joint Inventor (if any): Pel-Yu Chen	

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ASSIGNMENT CONTINUED

Ninth Joint Inventor (if any): Ching-Chi Hsu