PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4341666

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------|----------------|
| TAI-JUI WANG | 03/01/2017 |
| TSU-CHIANG CHANG | 03/01/2017 |
| CHIEH-WEI FENG | 03/01/2017 |
| SHAO-AN YAN | 03/01/2017 |
| WEI-HAN CHEN | 03/01/2017 |

RECEIVING PARTY DATA

| Name: | INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE |
|-----------------|--|
| Street Address: | NO. 195, SEC. 4, CHUNG HSING RD., CHUTUNG, |
| City: | HSINCHU |
| State/Country: | TAIWAN |
| Postal Code: | 31040 |

PROPERTY NUMBERS Total: 1

| Property Type | Number | |
|---------------------|----------|--|
| Application Number: | 15458984 | |

CORRESPONDENCE DATA

Fax Number:

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.

Email: usa@jcipgroup.com

Correspondent Name: JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE

Address Line 1: 7F.-1, NO. 100, ROOSEVELT RD., SEC. 2,

Address Line 4: TAIPEI, TAIWAN

| ATTORNEY DOCKET NUMBER: | 64088-US-PA |
|-------------------------|---------------|
| NAME OF SUBMITTER: | BELINDA LEE |
| SIGNATURE: | /Belinda Lee/ |
| DATE SIGNED: | 03/29/2017 |

Total Attachments: 2

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PATENT 504294985 REEL: 041772 FRAME: 0519

P61050014US 64088-US-PA

ASSIGNMENT

WHEREAS.

- 1. Tai-Jui Wang
- 3. Chieh-Wei Feng
- 5. Wei-Han Chen

- 2. Tsu-Chiang Chang
- 4. Shao-An Yan

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: TRANSISTOR DEVICE

[] Filed:

Serial No.

[x] Executed concurrently with the execution of this instrument

WHEREAS 1. Industrial Technology Research Institute

of No. 195, Sec. 4, Chung Hsing Rd., Chutung, Hsinchu 31040, 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: Tai-Jui Wang Sole or First Joint Inventor: Tai-Jui Wang | Date: | 3/1 , 2017 |
|--|-------------------|------------|
| Signature: Tau - Chang Chang Second Joint Inventor (if any): Tsu-Chiang Chang | Date: | 3/1,2017 |
| Signature: Chieh-Wei Feng Third Joint Inventor (if any): Chieh-Wei Feng | Date: | 3/1, 2017 |
| Signature: Shao - Ah Yan Fourth Joint Inventor (if any): Shao-An Yan | Date: | 3/1,20/1 |
| Signature: Wei-Han Chen | Date [,] | 3/1 2017 |

Fifth Joint Inventor (if any): Wei-Han Chen