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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5077183

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| TARKESH PANDE | 07/31/2018 |
| LORIN PAUL NETSCH | 07/31/2018 |
| DAVID PATRICK MAGEE | 07/30/2018 |
| RECEIVING PARTY DATA | |
| Name: | TEXAS INSTRUMENTS INCORPORATED |
| Street Address: | 12500 TI BOULEVARD |
| Internal Address: | M/S 3999 |
| City: | DALLAS |
| State/Country: | TEXAS |
| Postal Code: | 75243 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16051607 |
| CORRESPONDENCE DATA | |
| Fax Number: | (214)567-2228 |
| <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> | |
| Phone: | 214-479-1264 |
| Email: | uspto@ti.com |
| Correspondent Name: | TEXAS INSTRUMENTS INCORPORATED |
| Address Line 1: | PO BOX 655474 |
| Address Line 2: | M/S 3999 |
| Address Line 4: | DALLAS, TEXAS 75265 |
| ATTORNEY DOCKET NUMBER: | TI-78519 |
| NAME OF SUBMITTER: | COLLEEN F. BROWN |
| SIGNATURE: | /Colleen F. Brown/ |
| DATE SIGNED: | 08/01/2018 |
| Total Attachments: 3 | |
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| source=78519_ASSIGN#page2.tif | |

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made:

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 12500 TI Boulevard, M/S 3998, Dallas, Texas 75243, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon, as well as to U.S. Provisional Application No. 62/539,626, filed August 1, 2017 and U.S. Provisional Application No. 62/912,310, filed December 29, 2017.


NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign unto the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in and to the said application(s) and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof, and I hereby authorize and request the Patent and Trademark Office to issue all patents for said invention, or patents resulting therefrom, to the said TEXAS INSTRUMENTS INCORPORATED, as assignee of my entire right, title and interest.

I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my corresponding rights to the invention disclosed in said application in all other countries of the world, including the right to claim priority, file applications and obtain patents under the terms of the Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such rights.

I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

I authorize the later insertion of the nonprovisional application number and filing date hereinbelow.

IN WITNESS WHEREOF, I hereunto set hand and seal this day and year:

| | | | |
|--------------------------------|---|-------------|----------------|
| TITLE | MULTI-PHRASE DIFFERENCE CONFIDENCE SCORING | | |
| NONPROVISIONAL APPLICATION NO. | 16/051,607 | FILING DATE | August 1, 2018 |
| SIGNATURE OF INVENTOR |  | | |
| PRINTED NAME OF INVENTOR | Tarkesh PANDE | | |
| DATE | July - 31 - 2018 | | |
| RESIDENCE (CITY AND STATE) | Richardson TX | | |

| | |
|----------------------------|--------------------------|
| SIGNATURE OF INVENTOR | <i>Lorin Paul Netsch</i> |
| PRINTED NAME OF INVENTOR | Lorin Paul NETSCH |
| DATE | JULY 31, 2018 |
| RESIDENCE (CITY AND STATE) | Allen, TX |

| | |
|----------------------------|---------------------|
| SIGNATURE OF INVENTOR | |
| PRINTED NAME OF INVENTOR | David Patrick MAGEE |
| DATE | |
| RESIDENCE (CITY AND STATE) | Allen, TX |

After recording, return Assignment to:

Texas Instruments Incorporated
 PO Box 655474, M/S 3999
 Dallas, Texas 75265

| | |
|----------------------------|-------------------|
| SIGNATURE OF INVENTOR | |
| PRINTED NAME OF INVENTOR | Lorin Paul NETSCH |
| DATE | |
| RESIDENCE (CITY AND STATE) | Allen, TX |

| | |
|----------------------------|---------------------|
| SIGNATURE OF INVENTOR | <i>David Magee</i> |
| PRINTED NAME OF INVENTOR | David Patrick MAGEE |
| DATE | 7/30/18 |
| RESIDENCE (CITY AND STATE) | Allen, TX |

After recording, return Assignment to:

Texas Instruments Incorporated
 PO Box 655474, M/S 3999
 Dallas, Texas 75265