# 504953538 06/11/2018

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

EPAS ID: PAT5000285

#### **CONVEYING PARTY DATA**

| Name                   | Execution Date |
|------------------------|----------------|
| DHEERA BALASUBRAMANIAN | 05/23/2017     |
| JOSEPH ZBICIAK         | 05/23/2017     |
| SURESHKUMAR GOVINDARAJ | 05/23/2017     |

## **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: | 15602235 |

## **CORRESPONDENCE DATA**

**Fax Number:** (214)567-2228

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.

**Phone:** 214-479-1211 **Email:** uspto@ti.com

Correspondent Name: TEXAS INSTRUMENTS INCORPORATED

Address Line 1: P. O. BOX 655474 M/S 3999
Address Line 4: DALLAS, TEXAS 75265

| ATTORNEY DOCKET NUMBER: | TI-76688         |
|-------------------------|------------------|
| NAME OF SUBMITTER:      | DEBORAH DUPREE   |
| SIGNATURE:              | /Deborah DuPree/ |
| DATE SIGNED:            | 06/11/2018       |

## **Total Attachments: 4**

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PATENT 504953538 REEL: 046043 FRAME: 0174

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#### 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;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby self 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                             | SUPERIMPOSING BUTTERFLY NETWORK CONTROLS FOR PATTERN COMBINATIONS |             |            |  |
|-----------------------------------|---|-------------|------------|--|
| NONPROVISIONAL<br>APPLICATION NO. | 15/602,235  | FILING DATE | 05/23/2017 |  |

| SIGNATURE<br>OF INVENTOR      | Thurr Polasubramanan   |
|-------------------------------|------------------------|
| PRINTED NAME<br>OF INVENTOR   | Dheera Balasubramanian |
| DATE                          | Effective May 23, 2017 |
| RESIDENCE<br>(CITY AND STATE) | Richardson, TX         |

# Application No. 15/602,235

Attorney Docket No. TI-76688

|  | SIGNATURE<br>OF INVENTOR      |                        |
|--|-------------------------------|------------------------|
| The state of the s | PRINTED NAME<br>OF INVENTOR   | Joseph Zbiciak         |
|  | DATE                          | Effective May 23, 2017 |
|  | RESIDENCE<br>(CITY AND STATE) | San Jose, CA           |

| SIGNATURE<br>OF INVENTOR      | Lazethkuma             |
|-------------------------------|------------------------|
| PRINTED NAME<br>OF INVENTOR   | Sureshkumar Govindaraj |
| DATE                          | Effective May 23, 2017 |
| RESIDENCE<br>(CITY AND STATE) | Irving, TX             |

After recording, return Assignment to:

Texas Instruments Incorporated P.O. Box 655474, M/S 3999 Dallas, Texas 75265

## 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;

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, afficients, 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 seel this day and year,

| San a consession | TITLE                             |            |             |            |
|------------------|-----------------------------------|------------|-------------|------------|
| -                | NONPROVISIONAL<br>APPLICATION NO. | 15/602,235 | FILING DATE | 05/23/2017 |

| SIGNATURE<br>OF INVENTOR      |                        |
|-------------------------------|------------------------|
| PRINTED NAME<br>OF INVENTOR   | Dheera Balasubramanian |
| DATE                          | Effective May 23, 2017 |
| RESIDENCE<br>(CITY AND STATE) | Richardson, TX         |

| SIGNATURE<br>OF INVENTOR      | 4/-62                  |
|-------------------------------|------------------------|
| PRINTED NAME<br>OF INVENTOR   | Joseph Zbjciak         |
| DATE                          | Effective May 23, 2017 |
| RESIDENCE<br>(CITY AND STATE) | San Jose, CA           |
| SIGNATURE<br>OF INVENTOR      |                        |
| PRINTED NAME<br>OF INVENTOR   | Sureshkumar Govindaraj |
| DATE                          | Effective May 23, 2017 |
| RESIDENCE<br>(CITY AND STATE) | Irving, TX             |

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Texas instruments incorporated P.O. Box 655474, M/S 3999 Dallas, Texas 75265

> PATENT REEL: 046043 FRAME: 0179

**RECORDED: 06/11/2018**