#### 504509834 08/18/2017

#### PATENT ASSIGNMENT COVER SHEET

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

#### **CONVEYING PARTY DATA**

| Name                  | Execution Date |
|-----------------------|----------------|
| PEDRO GARCIA          | 08/17/2017     |
| DHANAPAL VITTALA RAYA | 08/17/2017     |
| CHRISTOPHER KEENEY    | 08/17/2017     |
| WAGNER YUKIO HIRAO    | 08/17/2017     |
| DAVID G. GONSKA       | 08/17/2017     |

#### **RECEIVING PARTY DATA**

| Name:           | ARVINMERITOR TECHNOLOGY, LLC |
|-----------------|------------------------------|
| Street Address: | 2135 WEST MAPLE ROAD         |
| City:           | TROY                         |
| State/Country:  | MICHIGAN                     |
| Postal Code:    | 48084                        |

#### **PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |  |  |
|---------------------|----------|--|--|
| Application Number: | 15680436 |  |  |

#### **CORRESPONDENCE DATA**

**Fax Number:** (248)358-3351

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:** 248-358-4400

**Email:** jrichmond@brookskushman.com

Correspondent Name: BROOKS KUSHMAN P.C. / MERITOR

Address Line 1: TWENTY SECOND FLOOR

Address Line 2: 1000 TOWN CENTER

Address Line 4: SOUTHFIELD, MICHIGAN 48075

| ATTORNEY DOCKET NUMBER: | MERIT 170057 PUS   |  |
|-------------------------|--|--|
| NAME OF SUBMITTER:      | JODY RICHMOND  |  |
| SIGNATURE:              | /JODY RICHMOND/  |  |
| DATE SIGNED:            | 08/18/2017   |  |
|                         | This document serves as an Oath/Declaration (37 CFR 1.63). |  |

PATENT 504509834 REEL: 043333 FRAME: 0123

### **Total Attachments: 3**

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### ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

| Title of invention   | axle assembly having an electric motor module  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| As a below named inventor, I hereby declare that:  |  |  |  |  |  |  |
| This declaration is directed to:   |  |  |  |  |  |  |
| The attached application, or   |  |  |  |  |  |  |
| 15/68  | States application or PCT international application number 0.436 filed on August 18, 2017 (I hereby authorize the n of the application filing date and number when they become known.) |  |  |  |  |  |
| The above-identified appl  | ication was made or authorized to be made by me.   |  |  |  |  |  |
| I believe that I am the ori  | ginal inventor or an original joint inventor of a claimed invention in the application.  |  |  |  |  |  |
| I hereby state that I have i   | reviewed and understand the contents of the above-identified specification, including the claims.  |  |  |  |  |  |
| I am aware of the duty<br>patentability as defined in  | to disclose to the U.S. Patent and Trademark Office all information known to me to be material to 37 C.F.R. § 1.56.  |  |  |  |  |  |
| NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I do hereby assign, sell and set over to ArvinMeritor Technology, LLC, a limited liability company organized and existing under the laws of the state of Delaware, and having a place of business at 2135 West Maple Road, Troy, Michigan 48084, hereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives, my entire right, title and interest, domestic and foreign, in and to the inventions and discoveries in the above-identified application including the right of said ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent for said inventions and discoveries in any and all foreign countries in its or their own name or names, or in my name, at its or their election, and I hereby assign, sell and set over to said ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, including any provisional applications, in and to said inventions and discoveries in all countries, including all applications claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, reexaminations and reissue applications. |  |  |  |  |  |  |
| And I hereby agree for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including applications for Letters Patent of any and all kinds and in any and all countries and to perform any and all acts which said ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure thereto the rights herein assigned, sold and set over.   |  |  |  |  |  |  |
| And I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein.   |  |  |  |  |  |  |
| I 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.   |  |  |  |  |  |  |
| LEGAL NAME OF INVI   | ENTOR  |  |  |  |  |  |
| Inventor: <u>Pedro Gas</u> Signature:  | Date: 8/17/17  |  |  |  |  |  |
| Page 1 of 2 (Supplemental Sheet with Additional Joint Inventors is attached if necessary)  |  |  |  |  |  |  |
| Notes An Application Para  | Sheet OFTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form  |  |  |  |  |  |

PATENT REEL: 043333 FRAME: 0125

|                   | ************** |            |
|-------------------|----------------|------------|
| Attorney Docket N |                | 170057 PUS |

# SUPPLEMENTAL SHEET FOR ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Additional Inventors Page 2 of 2

| ,                                       |   |  |  |  |  |
|---|---|--|--|--|--|
| Title of Invention                      | AXLE ASSEMBLY HAVING AN ELECTRIC MOTOR MODULE |  |  |  |  |
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| Legal Name of Adi                       | ditional Joint Inventor:                      |  |  |  |  |
|   | ` . <i>!</i>                                  |  |  |  |  |
| Inventor: Dhanspa                       | ıl Vitiala Raya Date: 8 17 /17                |  |  |  |  |
| 262 + 6/34/6/2 ,                        |   |  |  |  |  |
| Signature:                              |   |  |  |  |  |
| dro.                                    | mitchen.                                      |  |  |  |  |
|   |   |  |  |  |  |
| Legal Name of Add                       | ditional Joint Inventor:                      |  |  |  |  |
|   | · · · · · · · · · · · · · · · · · · ·         |  |  |  |  |
|   | her Keepsy / Date: 8/17/2017-                 |  |  |  |  |
| Inventor: Christon                      | Date: 8/17/2017                               |  |  |  |  |
| Signature:                              |   |  |  |  |  |
| 318 1000 E.                             |   |  |  |  |  |
| £                                       |   |  |  |  |  |
| Legal Name of Add                       | ditional Joint-Inventor:                      |  |  |  |  |
| AJAGISE ZYMANI V VE ZAM                 |   |  |  |  |  |
|   | Yukin Hizar 17/2017                           |  |  |  |  |
| Inventor: <u>Wagner</u>                 | Yukip Hipso-A Date: 8/17/2017                 |  |  |  |  |
| - surve                                 | 4T / /I)                                      |  |  |  |  |
| Signature:                              |   |  |  |  |  |
|   | <i>y</i>                                      |  |  |  |  |
| Y YAY &A 2 34.0 YY 0 / Y                |   |  |  |  |  |
| Legai name of Ad                        | ditional Joint Inventor:                      |  |  |  |  |
|   |   |  |  |  |  |
| Inventor: David G                       | Gonska Date:                                  |  |  |  |  |
|   |   |  |  |  |  |
| Signature:                              |   |  |  |  |  |
|   |   |  |  |  |  |

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| ٠ | Attorney Docket Number     | MERIT 170057 PUS                                 |  |
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# SUPPLEMENTAL SHEET FOR ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Additional Inventors Page 2 of 2

| Title of Invention      |            | AXLE ASSEMBLY HAVING AN ELECTRIC MOTOR MODULE |       |       |            |                   |
|-------------------------|------------|---|-------|-------|------------|-------------------|
| Legal Nar               | ne of Addi | tional Joint Inve                             | ntor: |       |            |                   |
| Inventor:<br>Signature: |            | Vittala Raya                                  |       | Date: |            | ~<br><del>-</del> |
| Legal Nar               | ne of Addi | tional Joint Inve                             | ntor: |       |            |                   |
| Inventor:<br>Signature: | Christophe | •   |       | Date: |            | -                 |
| Legal Nar               | ne of Addi | tional Joint Inve                             | ntor: |       |            |                   |
| Inventor:<br>Signature: | Wagner Y   | ukio Hirao                                    |       | Date: |            | <del>.</del>      |
| Legal Nar               | ne of Addi | tional Joint Inve                             | ntor: |       |            |                   |
| Inventor:<br>Signature: | David G.   | Gonska  |       | Date: | 17-11/9-17 | ·-                |

PATENT REEL: 043333 FRAME: 0127

RECORDED: 08/18/2017