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

EPAS ID: PAT5037556

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| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the SPELLING OF THE TENTH INVENTOR'S NAME previously recorded on Reel 034164 Frame 0899. Assignor(s) hereby confirms the SPELLING OF THE TENTH INVENTOR'S NAME IS ANNE VON VIETINGHOFF. |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------|----------------|
| TOBIAS LANG | 05/06/2014 |
| HEINER MARKERT | 07/22/2014 |
| AXEL AUE | 05/15/2014 |
| WOLFGANG FISCHER | 06/12/2014 |
| ULRICH SCHULMEISTER | 05/11/2014 |
| NICO BANNOW | 06/10/2014 |
| FELIX STREICHERT | 07/08/2014 |
| ANDRE GUNTORO | 06/10/2014 |
| CHRISTIAN FLECK | 06/12/2014 |
| ANNE VON VIETINGHOFF | 06/13/2014 |
| MICHAEL SAETZLER | 05/27/2014 |
| MICHAEL HANSELMANN | 06/13/2014 |
| MATTHIAS SCHREIBER | 05/27/2014 |

RECEIVING PARTY DATA

| | |
|------------------------|-------------------|
| Name: | ROBERT BOSCH GMBH |
| Street Address: | POSTFACH 30 02 20 |
| City: | STUTTGART |
| State/Country: | GERMANY |
| Postal Code: | DE-70442 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|----------------------------|----------|
| Application Number: | 14247136 |

CORRESPONDENCE DATA

Fax Number: (212)318-3400

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: 2125833628

Email: christina.leung@nortonrosefulbright.com
Correspondent Name: NORTON ROSE FULBRIGHT US LLP
Address Line 1: 1301 AVENUE OF THE AMERICAS
Address Line 4: NEW YORK, NEW YORK 10019

ATTORNEY DOCKET NUMBER: BOSCP8740US/1000199655

NAME OF SUBMITTER: GERARD A. MESSINA

SIGNATURE: /GERARD A. MESSINA/

DATE SIGNED: 07/05/2018

Total Attachments: 24

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PATIENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3106931

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

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------------|----------------|
| TOBIAS LANG | 05/06/2014 |
| HEINER MARKERT | 07/22/2014 |
| AXEL AUE | 05/15/2014 |
| WOLFGANG FISCHER | 06/12/2014 |
| ULRICH SCHULMEISTER | 05/11/2014 |
| NICO BANNOW | 06/10/2014 |
| FELIX STREICHERT | 07/08/2014 |
| ANDRE GUNTORO | 06/10/2014 |
| CHRISTIAN FLECK | 06/12/2014 |
| ANNE VON VIETINGOFF | 06/13/2014 |
| MICHAEL SAETZLER | 05/27/2014 |
| MICHAEL HANSELMANN | 06/13/2014 |
| MATTHIAS SCHREIBER | 05/27/2014 |

RECEIVING PARTY DATA

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|------------------------|-------------------|
| Name: | ROBERT BOSCH GMBH |
| Street Address: | POSTFACH 30 02 20 |
| City: | STUTTGART |
| State/Country: | GERMANY |
| Postal Code: | DE-70442 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|----------------------------|----------|
| Application Number: | 14247136 |

CORRESPONDENCE DATA

Fax Number: (212)425-5288

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: amagracia@kenyon.com

Correspondent Name: GERARD A. MESSINA

Address Line 1: KENYON & KENYON LLP

Address Line 2: ONE BROADWAY

PATENT

REEL: 046492 FRAME: 0669

ASSIGNMENT

WHEREAS, we,

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Felix STREICHERT
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Federal Republic of Germany
Citizenship: ~~India~~ Indonesia

10.06.2014

Christian FLECK
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Citizenship: France

Anne Von VIETINGHOFF
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Federal Republic of Germany
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Michael SAETZLER
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Federal Republic of Germany
Citizenship: Federal Republic of Germany

Michael HANSELMANN
Solitudeallee 86
DE-70825 Korntal ✓
Federal Republic of Germany
Citizenship: Federal Republic of Germany

and

Matthias SCHREIBER
Banzhaldenstr. 101
DE-70469 Stuttgart-Feuerbach
Federal Republic of Germany
Citizenship: Federal Republic of Germany

have made certain new and useful inventions and discoveries in **MODEL CALCULATION UNIT, CONTROL UNIT AND METHOD FOR CALIBRATING A DATA-BASED FUNCTION MODEL**, for which an application was filed at the United States Patent and Trademark Office under U.S. Serial No. 14/247,136 on April 7, 2014 and

WHEREAS Robert Bosch GmbH, having a place of business at Postfach 30 02 20, DE-70442 Stuttgart, Federal Republic of Germany, and who, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited,

NOW, THEREFORE, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservations:

1. Assign, transfer, and convey to Assignee the entire right, title, and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries including all divisional, renewal, substitute, and continuation applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications, and said Letters Patent.

2. Authorize Assignee to file patent applications in any or all countries for any or all of said inventions and discoveries in our names or in the name of Assignee or otherwise as Assignee may deem advisable, under an International Convention or otherwise.

3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title, and interest therein or otherwise as Assignee may direct.

4. Warrant that we have not conveyed to others any right, title, or interest in said inventions, discoveries, applications, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; that we have good right to assign the same to Assignee without encumbrance; and that we are aware of no claim to the contrary.

5. Bind our heirs, legal representatives, and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives, and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and

discoveries or the history thereof; to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in our control or in the control of our heirs, legal representatives, or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries; and to testify to the same in any interference, arbitration, or litigation.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 06 day of
May, 2014.

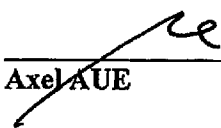


Tobias LANG

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 27nd day of
July, 2014.

H.M. v.f.
Heiner MARKERT

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 15 day of May, 2014.



Axel AUE

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 12 day of

June, 2014.




Wolfgang FISCHER

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 11 day of May, 2014.



Ulrich SCHULMEISTER

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 10 day of June, 2014.


Nico BANNOW

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 8th day of
July, 2014.

Felix Streichert

Felix STREICHERT

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 10 day of
June, 2014.



Andre GUNTORO

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 12 day of
June, 2014.

Ceeh.

Christian FLECK

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 13 day of

June, 2014.



Anne Von Vietinghoff

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 27 day of May, 2014.



Michael SÆTZLER

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 13 day of
June, 2014.

Michael Hanselmann
Michael HANSELMANN

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 27 day of May, 2014.



Matthias SCHREIBER