

## PATENT ASSIGNMENT COVER SHEET

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| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                           |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                               |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                          |
| <b>Name</b>                                                                                                                                                                                     | <b>Execution Date</b>                    |
| ICHIKI HOMMA                                                                                                                                                                                    | 12/03/2018                               |
| HEMING CHEN                                                                                                                                                                                     | 12/03/2018                               |
| YUAN XIAO                                                                                                                                                                                       | 12/03/2018                               |
| SUJIT PHATAK                                                                                                                                                                                    | 12/13/2018                               |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                          |
| <b>Name:</b>                                                                                                                                                                                    | HITACHI AUTOMOTIVE SYSTEMS, LTD.         |
| <b>Street Address:</b>                                                                                                                                                                          | 2520, TAKABA                             |
| <b>City:</b>                                                                                                                                                                                    | HITACHINAKA-SHI, IBARAKI                 |
| <b>State/Country:</b>                                                                                                                                                                           | JAPAN                                    |
| <b>Postal Code:</b>                                                                                                                                                                             | 312-8503                                 |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                                          |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                            |
| Application Number:                                                                                                                                                                             | 16234205                                 |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                          |
| <b>Fax Number:</b>                                                                                                                                                                              | (619)235-0398                            |
| <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> |                                          |
| <b>Phone:</b>                                                                                                                                                                                   | 6192381900                               |
| <b>Email:</b>                                                                                                                                                                                   | docketing@procopio.com                   |
| <b>Correspondent Name:</b>                                                                                                                                                                      | PROCOPIO, CORY, HARGREAVES & SAVITCH LLP |
| <b>Address Line 1:</b>                                                                                                                                                                          | 525 B STREET                             |
| <b>Address Line 2:</b>                                                                                                                                                                          | SUITE 2200                               |
| <b>Address Line 4:</b>                                                                                                                                                                          | SAN DIEGO, CALIFORNIA 92101              |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 120179-201UT1                            |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | JESSICA R. GROSS                         |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Jessica R. Gross/                       |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 12/27/2018                               |
| <b>Total Attachments: 1</b>                                                                                                                                                                     |                                          |
| source=120179-201UT1_Assignment#page1.tif                                                                                                                                                       |                                          |

## Assignment

Whereas, We, Ichiki HOMMA of Bloomfield, Michigan, Heming CHEN of Novi, Michigan, Yuan XIAO of Northville, Michigan, and Sujit PHATAK of New Hudson, Michigan, hereinafter called assignor, have invented certain improvements in CO-SIMULATION REPEATER WITH FORMER TRACE DATA and executed an application for Letters Patent of the United States of America therefor; and

Whereas, Hitachi Automotive Systems, Ltd., 2520, Takaba, Hitachinaka-shi, Ibaraki 312-8503 Japan (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, including the right to claim priority under 35 U.S.C. §119, and We request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and We hereby agree that the assignee may apply for foreign Letters Patent on the invention and We will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

We hereby authorize and request our attorneys PROCOPIO, CORY, HARGREAVES & SAVITCH LLP of 525 B Street Suite 2200, San Diego, CA 92101 to insert here in parentheses (Application number 16/234,205 and Confirmation number 3532, filed December 27, 2018) the application number, confirmation number and filing date of said application when known.

Date: 12/3/2018

[Signature]  
s/ Ichiki HOMMA

Date: 12/3/2018

[Signature]  
s/ Heming CHEN

Date: 12/03/2018

[Signature]  
s/ Yuan XIAO

Date: 12/13/2018

[Signature]  
s/ Sujit PHATAK

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)