

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5000836

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MASAYUKI TAKEMURA	04/23/2018
TAKESHI SHIMA	04/23/2018
TAKESHI NAGASAKI	05/11/2018
<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>
<b>Application Number:</b>	16061207
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(215)568-6499
<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>	215-568-6400
<b>Email:</b>	lgivigliano@vklaw.com
<b>Correspondent Name:</b>	VOLPE AND KOENIG, P.C.
<b>Address Line 1:</b>	UNITED PLAZA
<b>Address Line 2:</b>	30 SOUTH 17TH STREET, 18TH FLOOR
<b>Address Line 4:</b>	PHILADELPHIA, PENNSYLVANIA 19103
<b>ATTORNEY DOCKET NUMBER:</b>	HITACHI22-111502193US01
<b>NAME OF SUBMITTER:</b>	GERALD B. HALT, JR.
<b>SIGNATURE:</b>	/Gerald B. Halt, Jr./
<b>DATE SIGNED:</b>	06/11/2018
<b>Total Attachments: 3</b>	
source=HITACHI22_111502193US01_Assignment_EFS#page1.tif	
source=HITACHI22_111502193US01_Assignment_EFS#page2.tif	
source=HITACHI22_111502193US01_Assignment_EFS#page3.tif	

ASSIGNMENT  
( 譲渡証 )

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by HITACHI AUTOMOTIVE SYSTEMS, LTD., a corporation organized under the laws of Japan, located at 2520, Takaba, Hitachinaka-shi, Ibaraki 312-8503 Japan receipt of which is hereby acknowledged I do hereby sell and assign to said HITACHI AUTOMOTIVE SYSTEMS, LTD., its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

SURROUNDING ENVIRONMENT RECOGNITION DEVICE FOR MOVING BODY

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said HITACHI AUTOMOTIVE SYSTEMS, LTD., its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI AUTOMOTIVE SYSTEMS, LTD.,

Signed on the date(s) indicated aside our signatures:

INVENTOR(S)  
(発明者フルネームサイン)

Date Signed  
(署名日)

1) <u>Masayuki Takemura</u>	Masayuki TAKEMURA	<u>4/23 / 2018</u>
2) _____	Takeshi SHIMA	_____
3) _____	Takeshi NAGASAKI	_____
4) _____		_____
5) _____		_____
6) _____		_____
7) _____		_____
8) _____		_____
9) _____		_____
10) _____		_____

# ASSIGNMENT

( 譲渡証 )

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by HITACHI AUTOMOTIVE SYSTEMS, LTD., a corporation organized under the laws of Japan, located at 2520, Takaba, Hitachinaka-shi, Ibaraki 312-8503 Japan receipt of which is hereby acknowledged I do hereby sell and assign to said HITACHI AUTOMOTIVE SYSTEMS, LTD., its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

## SURROUNDING ENVIRONMENT RECOGNITION DEVICE FOR MOVING BODY

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said HITACHI AUTOMOTIVE SYSTEMS, LTD., its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI AUTOMOTIVE SYSTEMS, LTD.,

Signed on the date(s) indicated aside our signatures:

INVENTOR(S)  
(発明者フルネームサイン)

Date Signed  
(署名日)

1) \_\_\_\_\_ Masayuki TAKEMURA

2) Takeshi Shima Takeshi SHIMA

3) \_\_\_\_\_ Takeshi NAGASAKI

4) \_\_\_\_\_

5) \_\_\_\_\_

6) \_\_\_\_\_

7) \_\_\_\_\_

8) \_\_\_\_\_

9) \_\_\_\_\_

10) \_\_\_\_\_

\_\_\_\_\_

4 / 23 / 2018

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**ASSIGNMENT**  
( 譲 渡 証 )

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by HITACHI AUTOMOTIVE SYSTEMS, LTD., a corporation organized under the laws of Japan, located at 2520, Takaba, Hitachinaka-shi, Ibaraki 312-8503 Japan receipt of which is hereby acknowledged I do hereby sell and assign to said HITACHI AUTOMOTIVE SYSTEMS, LTD., its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

**SURROUNDING ENVIRONMENT RECOGNITION DEVICE FOR MOVING BODY**

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said HITACHI AUTOMOTIVE SYSTEMS, LTD., its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI AUTOMOTIVE SYSTEMS, LTD.,

Signed on the date(s) indicated aside our signatures:

INVENTOR(S)  
(発明者フルネームサイン)

Date Signed  
(署名日)

1)	Masayuki TAKEMURA	
2)	Takeshi SHIMA	
3)	<i>Takeshi Nagasaki</i> Takeshi NAGASAKI	5 / 11 / 2018
4)		
5)		
6)		
7)		
8)		
9)		
10)		