503676297 02/02/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HIROSHI MORIKAWA	12/18/2015
YOSHINORI AOSHIMA	12/21/2015
MASAYUKI TAKADA	12/22/2015
KENICHIRO TSURU	12/21/2015
SHIGEYUKI KIYOTA	12/22/2015
YOSHIYUKI TANAKA	01/07/2016
TOYOKI IGUCHI	12/22/2015
HIROAKI HASHIMOTO	12/22/2015
YASUYUKI TAKAHASHI	12/22/2015

RECEIVING PARTY DATA

Name:	HITACHI AUTOMOTIVE SYSTEMS, LTD.
Street Address:	2520, TAKABA
Internal Address:	HITACHINAKA-SHI
City:	IBARAKI
State/Country:	JAPAN
Name:	NISSAN MOTOR CO., LTD.
0	
Street Address:	2, TAKARA-CHO, KANAGAWA-KU
Internal Address:	2, TAKARA-CHO, KANAGAWA-KU YOKOHAMA-SHI

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14909619

CORRESPONDENCE DATA

Fax Number: (215)568-6499

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.

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Email: MGORDON@VKLAW.COM

PATENT REEL: 037647 FRAME: 0483

503676297

Correspondent Name: GERALD B. HALT, JR. Address Line 1: VOLPE & KOENIG

Address Line 2: 30 SOUTH 17TH STREET

Address Line 4: PHILADELPHIA, PENNSYLVANIA 19103

ATTORNEY DOCKET NUMBER: HITACHI17-111301193US01

NAME OF SUBMITTER: GERALD B. HALT, JR.

SIGNATURE: /Gerald B. Halt, Jr./

DATE SIGNED: 02/02/2016

Total Attachments: 3

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PATENT REEL: 037647 FRAME: 0484

ASSIGNMENT

(譲渡証)

As a below named inventor, I hereby declare that:

made:

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, Japan and by NISSAN MOTOR CO., LTD., a corporation organized under the laws of Japan, located at 2, Takara-cho, Kanagawa-ku, Yokohama-shi, Kanagawa, Japan, receipt of which is hereby acknowledged I do hereby sell and assign to said HITACHI AUTOMOTIVE SYSTEMS, LTD. and NISSAN MOTOR CO., LTD., its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

BATTERY CONTROL SYSTEM AND VEHICLE CONTROL SYSTEM

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. and NISSAN MOTOR CO., 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

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. and NISSAN MOTOR CO., LTD.

Signed on the date(s) indicated aside signatures:

		NVENTOR(\$) 者フルネームサイン)	Date Signed (署名日)
1)	Hiroshi MORIKAWA	Hiroshi MORIKAWA	12/18/2015
2)	Yoshinori AOSHIMA	Yoshinori XOSHIMA	12/21/2015
-	Masayuki TAKADA	Masayuki TAKADA	12/22/2015
	Kenichiro TSURU	Kenichiro TSURU	12/21/2015
	Shigeyuki KIYOTA		
·	Yoshiyuki TANAKA		
7)	Toyoki IGUCHI		
8)	Hiroaki HASHIMOTO		
9)	Yasuyuki TAKAHASHI		

PATENT REEL: 037647 FRAME: 0485

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, Japan and by NISSAN MOTOR CO., LTD., a corporation organized under the laws of Japan, located at 2, Takara-cho, Kanagawa-ku, Yokohama-shi, Kanagawa, Japan, receipt of which is hereby acknowledged I do hereby sell and assign to said HITACHI AUTOMOTIVE SYSTEMS, LTD. and NISSAN MOTOR CO., LTD., its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

BATTERY CONTROL SYSTEM AND VEHICLE CONTROL SYSTEM

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. and NISSAN MOTOR CO., 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. and NISSAN MOTOR CO., LTD.

Signed on the date(s) indicated aside signatures:

INVENTOR(S) (発明者フルネームサイン)		Date Signed (署名日)
1)	Hiroshi MORIKAWA	
2)	Yoshinori AOSHIMA	
3)	Masayuki TAKADA	
•	Kenichiro TSURU	December 22,2015
5)	Shigeyuki KIYOTA Shigeyuki Kiyota	recember at 1000
6)	Yoshiyuki TANAKA	
7)	Toyoki IGUCHI Toyoki Igachi	December 22, 2015
8)	Hiroaki HASHIMOTO Hiroaki Hashimito	December 22, 2015
9)	Yasuyuki TAKAHASHI Yasuyaki Takahashi	December 22, 20/5

PATENT REEL: 037647 FRAME: 0486

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, Japan and by NISSAN MOTOR CO., LTD., a corporation organized under the laws of Japan, located at 2, Takara-cho, Kanagawa-ku, Yokohama-shi, Kanagawa, Japan, receipt of which is hereby acknowledged I do hereby sell and assign to said HITACHI AUTOMOTIVE SYSTEMS, LTD. and NISSAN MOTOR CO., LTD., its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

BATTERY CONTROL SYSTEM AND VEHICLE CONTROL SYSTEM

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. and NISSAN MOTOR CO., 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. and NISSAN MOTOR CO., LTD.

Signed on the date(s) indicated aside signatures:

INVENTOR(S) (発明者フルネームサイン)	Date Signed (署名日)
1) Hiroshi MORIKAWA	
2) Yoshinori AOSHIMA	
3) Masayuki TAKADA	
4) Kenichiro TSURU	
5) Shigeyuki KIYOTA	
6) Yoshiyuki TANAKA Godiyuki Tanaka	January 7, 2016
7) Toyoki IGUCHI	
8) Hiroaki HASHIMOTO	
9) Yasuyuki TAKAHASHI	

PATENT REEL: 037647 FRAME: 0487

RECORDED: 02/02/2016