507039458 12/21/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7086295

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YUKI TANAKA	05/13/2021
TATSUYA HORIGUCHI	12/10/2021
TEPPEI HIROTSU	11/13/2021
HIDEYUKI SAKAMOTO	04/23/2021

RECEIVING PARTY DATA

Name:	HITACHI ASTEMO, LTD.	
Street Address:	eet Address: 2520, TAKABA, HITACHINAKA-SHI	
City:	IBARAKI	
State/Country:	JAPAN	
Postal Code:	312-8503	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17295362

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.

Phone: 2155686400

Email: jchilson@vklaw.com **Correspondent Name: VOLPE KOENIG**

30 SOUTH 17TH STREET, 18TH FLOOR Address Line 1: Address Line 4: PHILADELPHIA, NEW JERSEY 19103

ATTORNEY DOCKET NUMBER:	HITACHI3-111801237US01
NAME OF SUBMITTER:	GERALD B. HALT, JR.
SIGNATURE:	/Gerald B. Halt, Jr./
DATE SIGNED:	12/21/2021

Total Attachments: 4

source=HITACHI3-111801237US01_Assignment_EFS#page1.tif source=HITACHI3-111801237US01 Assignment EFS#page2.tif source=HITACHI3-111801237US01 Assignment EFS#page3.tif

PATENT REEL: 058448 FRAME: 0249 507039458

 $source = HITACHI3-111801237US01_Assignment_EFS\#page4.tif$

PATENT REEL: 058448 FRAME: 0250

(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 Astemo, 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 Astemo, Ltd. its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

VEHICLE CONTROL DEVICE

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 Astemo, 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 Astemo, 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)	Yuki Tanaka Yuki TANAKA	5/13/2021
2)	Tatsuya HORIGUCH	
3)	Teppei HIROTSU	
4)_	Hideyuki SAKAMOTO	
5)_		
6)_		·
7)_		
8)		
9)		
10)		

PATENT REEL: 058448 FRAME: 0251

(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 Astemo, 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 Astemo, Ltd. its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

VEHICLE CONTROL DEVICE

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 Astemo, 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 Astemo, 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)_	Yuki TANAKA	
2)_	Tatsaya Horigach Tatsuya HORIGUCHI	12/10/2021
3)_	Teppei HIROTSU	
4)_	Hideyuki SAKAMOTO	
5)_		
6)_		
7)_		
8)_		
9)_		
10)		

PATENT REEL: 058448 FRAME: 0252

(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 Astemo, 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 Astemo, Ltd. its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

VEHICLE CONTROL DEVICE

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 Astemo, 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 Astemo, Ltd.

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

INVENTOR(S)

	(発明者ノルネームサイン)		(署名日)	
1)_		Yuki TANAKA		
2)_		Tatsuya HORIGUCHI		
3)_	Teppei Hirotsu	Teppei HIROTSU	11/13/2021	
4)		Hideyuki SAKAMOTO	- 1	
5)_	· · · · · · · · · · · · · · · · · · ·	·		
6)_				
7)_				
8)				
9)_				
١٥١		_ -		

PATENT REEL: 058448 FRAME: 0253

Date Signed

(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 Astemo, 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 Astemo, Ltd. its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

VEHICLE CONTROL DEVICE

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 Astemo, 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 Astemo, Ltd.

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

INVENTOR(S)

	(発明者フルネームサイン)	(署名日)	
1)	Yuki TANAKA	·	
2)	Tatsuya HORIGUCHI		
3)	Teppei HIROTSU	· · · · · · · · · · · · · · · · · · ·	
4)	Hideyuki Sakamoto Hideyuki SAKAMOTO	4/23/202/	
5)	,		
6)			
7).			
8)			
9)			
10)			

PATENT REEL: 058448 FRAME: 0254

Date Signed

RECORDED: 12/21/2021