507480024 09/08/2022

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7526916

SUBMISSION TYPE:		CORRECTIVE ASSIGNMENT	CORRECTIVE ASSIGNMENT		
NATURE OF CONVEYANCE:		previously recorded on Reel 060	Corrective Assignment to correct the THE SECOND INVENTOR'S NAME previously recorded on Reel 060191 Frame 0917. Assignor(s) hereby confirms the ASSIGNMENT OF THE ASSIGNORS' INTEREST		
CONVEYING PARTY	DATA				
		Name	Execution Date		
KEIKO TANIGAWA			02/15/2022		
TOSHIHIKO KASHIYA	MA		02/16/2022		
JUMPEI OKOSHI			02/18/2022		
RECEIVING PARTY D	ΑΤΑ				
Name:	HITACH	I, LTD.			
Street Address:	6-6, MAI	RUNOUCHI 1-CHOME			
City:	СНІУОД	Α-ΚU, ΤΟΚΥΟ			
State/Country:	JAPAN				
Postal Code:	100-828	0			
		Number			
Property Type	e	Number			
Application Number:		Number 7694194			
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Application Number:	1 DATA				
Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will</i>	DATA (2 be sent to	7694194 202)628-8884 the e-mail address first; if that is un			
Application Number: CORRESPONDENCE Fax Number: Correspondence will using a fax number, i	DATA (2) be sent to if provided;	7694194 202)628-8884 the e-mail address first; if that is un if that is unsuccessful, it will be set			
Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will</i>	DATA (2 be sent to if provided; 2	7694194 202)628-8884 the e-mail address first; if that is un	nt via US Mail.		
Application Number: CORRESPONDENCE Fax Number: Correspondence will using a fax number, i Phone:	DATA (2 be sent to f provided; 2 e	7694194 202)628-8884 the e-mail address first; if that is un if that is unsuccessful, it will be ser 2026242500	<i>nt via US Mail.</i> ell.com		
Application Number: CORRESPONDENCE Fax Number: Correspondence will using a fax number, i Phone: Email: Correspondent Name Address Line 1:	DATA (2 be sent to if provided; 2 e e: C F	7694194 202)628-8884 the e-mail address first; if that is un if that is unsuccessful, it will be sel 2026242500 edocket@crowell.com, rfleming@crowe CROWELL & MORING LLP INTELLEC P.O. BOX 14300	<i>nt via US Mail.</i> ell.com		
Application Number: CORRESPONDENCE Fax Number: Correspondence will using a fax number, i Phone: Email: Correspondent Name	DATA (2 be sent to if provided; 2 e e: C F	7694194 202)628-8884 <i>the e-mail address first; if that is un</i> <i>if that is unsuccessful, it will be ser</i> 2026242500 docket@crowell.com, rfleming@crowe CROWELL & MORING LLP INTELLEC	<i>nt via US Mail.</i> ell.com		
Application Number: CORRESPONDENCE Fax Number: Correspondence will using a fax number, i Phone: Email: Correspondent Name Address Line 1: Address Line 4:	DATA (2 be sent to f provided; 2 e e: C F V	7694194 202)628-8884 the e-mail address first; if that is un if that is unsuccessful, it will be sel 2026242500 edocket@crowell.com, rfleming@crowe CROWELL & MORING LLP INTELLEC P.O. BOX 14300	<i>nt via US Mail.</i> ell.com		
Application Number: CORRESPONDENCE Fax Number: Correspondence will using a fax number, i Phone: Email: Correspondent Name Address Line 1:	DATA (/ be sent to if provided; 2 e: C F V NUMBER:	7694194 202)628-8884 <i>the e-mail address first; if that is un</i> <i>if that is unsuccessful, it will be ser</i> 2026242500 edocket@crowell.com, rfleming@crowe CROWELL & MORING LLP INTELLEC P.O. BOX 14300 VASHINGTON, D.C. 20044-4300	<i>nt via US Mail.</i> ell.com		
Application Number: CORRESPONDENCE Fax Number: Correspondence will using a fax number, i Phone: Email: Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKET I	DATA (/ be sent to if provided; 2 e: C F V NUMBER:	7694194 202)628-8884 the e-mail address first; if that is unit if that is unsuccessful, it will be sel 2026242500 edocket@crowell.com, rfleming@crowe CROWELL & MORING LLP INTELLEC 2.0. BOX 14300 VASHINGTON, D.C. 20044-4300 109676.PF358US	<i>nt via US Mail.</i> ell.com		
Application Number: CORRESPONDENCE Fax Number: Correspondence will using a fax number, i Phone: Email: Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKET I NAME OF SUBMITTER	DATA (/ be sent to if provided; 2 e: C F V NUMBER:	7694194 202)628-8884 the e-mail address first; if that is un if that is unsuccessful, it will be sel 2026242500 edocket@crowell.com, rfleming@crowe CROWELL & MORING LLP INTELLEC P.O. BOX 14300 VASHINGTON, D.C. 20044-4300 109676.PF358US CAMERON BEDDARD	<i>nt via US Mail.</i> ell.com		
Application Number: CORRESPONDENCE Fax Number: Correspondence will using a fax number, i Phone: Email: Correspondent Name Address Line 1: Address Line 1: Address Line 4: ATTORNEY DOCKET I NAME OF SUBMITTER SIGNATURE: DATE SIGNED: Total Attachments: 6	DATA (2 be sent to f provided; 2 e e e : C F V NUMBER: 2 :	7694194 202)628-8884 the e-mail address first; if that is unit if that is unsuccessful, it will be set 2026242500 edocket@crowell.com, rfleming@crowe CROWELL & MORING LLP INTELLEC P.O. BOX 14300 VASHINGTON, D.C. 20044-4300 109676.PF358US CAMERON BEDDARD /Cameron W. Beddard/ 09/08/2022	<i>nt via US Mail.</i> ell.com		
Application Number: CORRESPONDENCE Fax Number: Correspondence will using a fax number, i Phone: Email: Correspondent Name Address Line 1: Address Line 1: Address Line 4: ATTORNEY DOCKET I NAME OF SUBMITTER SIGNATURE: DATE SIGNED: Total Attachments: 6 source=PF358US_Corre	DATA (2 be sent to f provided; 2 e f provided; 2 e e v V NUMBER: 2 e e v V NUMBER: 2 e e v	7694194 202)628-8884 the e-mail address first; if that is un if that is unsuccessful, it will be sel 2026242500 edocket@crowell.com, rfleming@crowel CROWELL & MORING LLP INTELLEC P.O. BOX 14300 VASHINGTON, D.C. 20044-4300 109676.PF358US CAMERON BEDDARD /Cameron W. Beddard/	<i>nt via US Mail.</i> ell.com		

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7381494

SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT		
NATURE OF CONVEY	ANCE:	ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY	DATA				
		Name	Execution Date		
KEIKO TANIGAWA			02/15/2022		
TOSHIKO KASHIYAN	1A <u>TOSH</u>	IHIKO KASHIYAMA	02/16/2022		
JUMPEI OKOSHI			02/18/2022		
RECEIVING PARTY	DATA				
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Street Address:	6-6, M	ARUNOUCHI 1-CHOME,			
City:	CHIYC	DA-KU, TOKYO			
State/Country:	JAPAN				
Postal Code:	100-82	80			
PROPERTY NUMBERS Total: 1 Property Type Number Application Number: 17694194					
		17034134			
CORRESPONDENCE	E DATA				
Fax Number:	I ha aant t	(202)628-8884	unaverage ful it will be cant		
using a fax number,	if provide	the e-mail address first; if that is t; if that is t; if that is unsuccessful, it will be	sent via US Mail.		
Phone:	-	2026242500			
Email:			ket@crowell.com, Rfleming@crowell.com		
Correspondent Nam	e:		WELL & MORING LLP INTELLECTUAL PROPER		
Address Line 1: Address Line 4:		P.O. BOX 14300 WASHINGTON, D.C. 20044-4300			
		, 			
ATTORNEY DOCKET	NUMBER:	109676.PF358US			
NAME OF SUBMITTE	R:	MICHAEL H. JACOBS	MICHAEL H. JACOBS		
SIGNATURE:		/Michael H. Jacobs/	/Michael H. Jacobs/		
DATE SIGNED:		06/14/2022	06/14/2022		
Total Attachments: 3					
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As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.80) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by Hitachi, Ltd.

a corporation organized under the laws of Japan,

located at 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8280, Japan

receipt of which is hereby acknowledged I do hereby sell and assign to said Hitachi, Ltd.

its successor and assigns, all my right, title and interest, in and for the United States of America, in and to

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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, Ltd.

its successor, 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, 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) /Keiko Tanigawa/

Keiko TANIGAWA

February 15, 2022

2)

Toshihiko KASHIYAMA

3) Jumpei OKOSHI

PATENT REEL: 061392 FRAME: 0243 As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.80) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by Hitachi, Ltd.

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to be held and enjoyed by said Hitachi, Ltd.

its successor, 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, 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>	Keiko TANIGAWA		
2)/Toshihiko Kashiyama/	Toshihiko KASHIYAMA	February 16, 2022	

3>

Jumpei OKOSHI

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.80) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by Hitachi, Ltd.

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And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said Hitachi, 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)		Keiko TANIGAWA		
C)	-			
2>	10	shihiko KASHIYAMA		
	/ lumned OKOPUB/			
3>	/Jumpei OKOSHI/	Jumpei OKOSHI	February 18, 2022	

RECORDED: 09/08/2022