504829242 03/21/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4875979

		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY D	ΑΤΑ			
		Name	Execution Date	
MASAHIRO IDE			02/16/2018	
OSAMU TORIGOE			02/15/2018	
SHINICHI KASAHARA			02/09/2018	
RECEIVING PARTY DA	ATA			
Name:	HITACH	I LTD.		
Street Address:	6-6, MAI	RUNOUCHI 1-CHOME		
Internal Address:	CHIYOD	DA-KU		
City:	ΤΟΚΥΟ			
State/Country:	JAPAN			
Postal Code:	100-828	0		
Property Type		Number		
	1	5761672		
Application Number:		5761672		
CORRESPONDENCE				
CORRESPONDENCE I Fax Number:	DATA	215)568-6499	cessful. it will be sent	
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CORRESPONDENCE I Fax Number: Correspondence will k using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 2: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER: BIGNATURE:	DATA (; provided; 2 II V UMBER:	215)568-6499 the e-mail address first; if that is unsuc if that is unsuccessful, it will be sent vi 215-568-6400 hennessey@vklaw.com /OLPE AND KOENIG, P.C. JNITED PLAZA 30 SOUTH 17TH STREET, 18TH FLOOR PHILADELPHIA, PENNSYLVANIA 19103 HITACHI2-341500826US01 GERALD B. HALT, JR. /Gerald B. Halt, Jr./		
CORRESPONDENCE I Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 2: Address Line 4: ATTORNEY DOCKET N VAME OF SUBMITTER: DATE SIGNED: Total Attachments: 3	DATA (; pe sent to provided; 2 \\ UMBER:	215)568-6499 the e-mail address first; if that is unsuc if that is unsuccessful, it will be sent vi 215-568-6400 hennessey@vklaw.com /OLPE AND KOENIG, P.C. JNITED PLAZA 30 SOUTH 17TH STREET, 18TH FLOOR PHILADELPHIA, PENNSYLVANIA 19103 HITACHI2-341500826US01 GERALD B. HALT, JR. /Gerald B. Halt, Jr./		

PATENT REEL: 045298 FRAME: 0402

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

STORAGE SYSTEM, STORAGE DEVICE, AND STORAGE SYSTEM CONTROL METHOD

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 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, Ltd.,

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

Date Signed (署名日)	イン)	INVENTOR(S) (発明者フルネームサイン)		
2018/2/16	Masahiro IDE	Masahiro IDE	1) _	
	Osamu TORIGOE	х	2)	
	Shinichi KASAHARA		3)	
			4)	
			5)	
			6)	
			7)	
			8)	

PATENT REEL: 045298 FRAME: 0403

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 by Hitachi, Ltd.,

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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, Ltd.,

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

INVENTOR(S) (発明者フルネームサイン)

1)	Masahiro IDE	
	Osamu TORIGOE Osamu TORIGOE	15th / Feb. /2018
3) _	Shinichi KASAHARA	
4) _		
5) _		
6) _		
7) _		
8) _		

PATENT REEL: 045298 FRAME: 0404

Date Signed (署名日)

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 by Hitachi, Ltd.,

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	INVENTOR(S) (発明者フルネームサイン)	Date Signed (署名日)	
1)	Masahiro IDE		
2)	Osamu TORIGOE		
3)	Shinichi Kasahara shinichi Kasahara	2018.2.9	
4)			
5)			
6)			
7)			
8)			

PATENT REEL: 045298 FRAME: 0405

RECORDED: 03/21/2018