505074915 08/31/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RYOSUKE TATSUMI	08/22/2018
YOSHIHIRO YOSHII	07/17/2018

RECEIVING PARTY DATA

Name:	HITACHI LTD.	
Street Address:	6-6, MARUNOUCHI 1-CHOME	
Internal Address:	CHIYODA-KU	
City:	TOKYO	
State/Country:	JAPAN	
Postal Code:	100-8280	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16119589

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: 215-568-6400

Email: Ihennessey@vklaw.com VOLPE AND KOENIG, P.C. **Correspondent Name:**

Address Line 1: **UNITED PLAZA**

Address Line 2: 30 SOUTH 17TH STREET, 18TH FLOOR Address Line 4: PHILADELPHIA, PENNSYLVANIA 19103

ATTORNEY DOCKET NUMBER:	HITACHI4-341701145US01	
NAME OF SUBMITTER:	GERALD B. HALT, JR.	
SIGNATURE:	/Gerald B. Halt, Jr./	
DATE SIGNED:	08/31/2018	

Total Attachments: 2

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PATENT REEL: 046770 FRAME: 0623 505074915

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, 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

COMPUTER SYSTEM HAVING DATA AMOUNT REDUCTION FUNCTION AND STORAGE 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:

INVENTOR(S) (発明者フルネームサイン)	DATE SIGNED (署名日)
1) Ryosuke TATSUM [Ryosuke TATSUMI	8/22/20/8
2) Yoshihiro YOSHII	
3)	····
4)	•
5)	
6)	······
7)	•
8)	

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PATENT REEL: 046770 FRAME: 0624

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, 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

COMPUTER SYSTEM HAVING DATA AMOUNT REDUCTION FUNCTION AND STORAGE 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:

INVENTOR(\$) (発明者フルネームサイン)		DATE SIGNED (署名日)
1)	Ryosuke TATSUMI	
2) (Johnile John	Yoshihiro YOSHII	1/11/ 2018
3)		
4)		
5.)		
6)		
7)		
8)		

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PATENT REEL: 046770 FRAME: 0625

RECORDED: 08/31/2018