PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5494447

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KAIHO FUKUCHI	03/27/2019
JUN NEMOTO	04/09/2019
MITSUO HAYASAKA	04/09/2019

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16395480

CORRESPONDENCE DATA

Fax Number: (703)684-1157

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: 703-684-1120

Email: svannarath@mmiplaw.com MATTINGLY & MALUR, PC **Correspondent Name:** Address Line 1: 1800 DIAGONAL ROAD

Address Line 2: SUITE 210

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	TOU-12128
NAME OF SUBMITTER:	SHRINATH MALUR
SIGNATURE:	/Shrinath Malur/
DATE SIGNED:	04/26/2019

Total Attachments: 3

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> **PATENT** REEL: 049004 FRAME: 0513 505447646

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

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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 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)	Kaiho PUKU CHI	March 27, 2019
2)	Jun NEMOTO	
3)	Mitsuo HAYASAKA	
4) .		
5)		WARREST CONTRACTOR CON
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a)		

PATENT REEL: 049004 FRAME: 0514

Date Signed

(署名日)

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(発明者ブルネームサイン)

Date Signed (署名日)

1)		Kaiho FUKUCHI	
2)	Jun NEMOTO	Jun NEMOTO	Abril 9 . 2019
3)		Mitsuo HAYASAKA	
4)	a kilonininin kanan k		
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PATENT REEL: 049004 FRAME: 0515

ASSIGNMENT

(譲渡証)

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INIVENITORIO

	(発明者フルネームサイン)	Date Signed (署名日)	
1)	Kaiho FUKUCHI		
2)	Jun NEMOTO		
3)	Mitsub Hayasaka Mitsuo HAYASAKA	4/9/2019	
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RECORDED: 04/26/2019