

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3441603

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SATOSHI MURAOKA	05/15/2015
YUTAKA UEMATSU	05/15/2015
HIDEKI OSAKA	05/16/2015
YUUSUKE FUKUMURA	05/18/2015
SATORU WATANABE	05/18/2015
MASABUMI SHIBATA	05/19/2015
HIROSHI KAKITA	05/20/2015
YUICHI FUKUDA	05/18/2015
TAKASHI MIYAGAWA	05/15/2015
MICHINORI NAITO	05/18/2015
HITOSHI UENO	06/17/2015
AKIO IDEI	05/15/2015
TAKAYUKI ONO	05/15/2015
TAISHI SUMIKURA	05/15/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HITACHI, LTD.
<b>Street Address:</b>	6-6, MARUNOUCHI 1-CHOME, CHIYODA-KU
<b>City:</b>	TOKYO
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	100-8280
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14759504
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(703)610-8686
<i>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.</i>	
<b>Phone:</b>	7039039000
<b>Email:</b>	tpurifoy@milesstockbridge.com, ipdocketing@milesstockbridge.com

**Correspondent Name:** MITCHELL W. SHAPIRO  
**Address Line 1:** MILES & STOCKBRIDGE P.C.  
**Address Line 2:** 1751 PINNACLE DRIVE, SUITE 1500  
**Address Line 4:** TYSONS CORNER, VIRGINIA 22102-3833

**ATTORNEY DOCKET NUMBER:** XA-12906/T9094-21707US01

**NAME OF SUBMITTER:** TYNISHA PURIFOY

**SIGNATURE:** /Tynisha Purifoy/

**DATE SIGNED:** 07/16/2015

**Total Attachments: 14**

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located at 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan  
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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,  
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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)	Satoshi MURAOKA	
2)	<i>Yutaka Uematsu</i> Yutaka UEMATSU	5/15/2015
3)	Hideki OSAKA	
4)	Yuusuke FUKUMURA	
5)	Satoru WATANABE	
6)	Masabumi SHIBATA	
7)	Hiroshi KAKITA	
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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) _____ Satoshi MURAOKA	_____
2) _____ Yutaka UEMATSU	_____
3) _____ Hideki OSAKA	_____
4) _____ Yuusuke FUKUMURA	_____
5) _____ Satoru WATANABE	_____
6) _____ Masabumi SHIBATA	_____
7) _____ Hiroshi KAKITA	_____
8) _____ Yuichi FUKUDA	_____
9) _____ Takashi MIYAGAWA	_____
10) _____ Michinori NAITO	_____
11) _____ Hitoshi UENO	_____
12) <u>Akio Idei</u> Akio IDEI	<u>5 / 15 / 2015</u>
13) _____ Takayuki ONO	_____
14) _____ Taishi SUMIKURA	_____

**ASSIGNMENT**  
( 譲渡証 )

As a below named inventor, I hereby declare that:

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12) _____ Akio IDEI	_____
13) <u>Takayuki Ono</u> Takayuki ONO	5/15/2015
14) _____ Taishi SUMIKURA	_____

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12) _____ Akio IDEI	_____
13) _____ Takayuki ONO	_____
14) <u>Taishi Sumikura</u> Taishi SUMIKURA	<u>5/15/2015</u>