504353766 05/05/2017

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HIROAKI NAKAGAWA	04/17/2017
KENGO MURAMATSU	04/20/2017

### **RECEIVING PARTY DATA**

Name:	HITACHI HIGH-TECHNOLOGIES CORPORATION	
Street Address:	24-14, NISHI-SHIMBASHI 1-CHOME	
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State/Country:	JAPAN	

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	29594886

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ATTORNEY DOCKET NUMBER:	108353.26146US	
NAME OF SUBMITTER:	MICHAEL H. JACOBS	
SIGNATURE:	/Michael H. Jacobs/	
DATE SIGNED:	05/05/2017	

**Total Attachments: 1** 

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**PATENT** 504353766

REEL: 042254 FRAME: 0815

# **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 High-Technologies Corporation a corporation organized under the laws of Japan,

located at 24-14, Nishi-Shimbashi 1-chome, Minato-ku, Tokyo, Japan

receipt of which is hereby acknowledged I do hereby sell and assign to said Hitachi High-Technologies Corporation its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

#### **COLUMN**

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 High-Technologies Corporation

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 High-Technologies Corporation

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)_	Idroakz Nahogawa	04/17/2017
2)_	Kengo Muramatsu	04/20/2017
3)_		
4)_		
		_
6)		
9) — 10)		

PATENT REEL: 042254 FRAME: 0816

**RECORDED: 05/05/2017**