PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NATIONAL UNIVERSITY CORPORATION HOKKAIDO UNIVERSITY	04/20/2016

RECEIVING PARTY DATA

Name:	HITACHI, LTD.	
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City:	TOKYO	
State/Country:	JAPAN	
Postal Code:	100-8280	

PROPERTY NUMBERS Total: 5

Property Type	Number
Patent Number:	9061144
Application Number:	14726824
Application Number:	14450546
Application Number:	14655192
Application Number:	14763595

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DATE SIGNED:	05/20/2016
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Total Attachments: 2

PATENT REEL: 038656 FRAME: 0538

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> PATENT REEL: 038656 FRAME: 0539

ASSIGNMENT

WHEREAS, National University Corporation Hokkaido University (hereinafter referred to as ASSIGNOR), is a joint owner, by assignment, of the following Applications for Letters Patent and Letters Patent of the United States of America:

- U.S. Patent No. 9,061,144, issue date November 6, 2014
- U.S. Application No. 14/726,824, filing date June 1, 2015
- U.S. Application No. 14/450,546, filing date August 4, 2014
- U.S. Application No. 14/655,192, filing date June 24, 2015
- U.S. Application No. 14/763,595, filing date July 27, 2015

WHEREAS, Hitachi, Ltd. (hereinafter referred to as ASSIGNEE), a corporation organized under the laws of Japan, having its place of business at 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8280, Japan, is desirous of acquiring ASSIGNOR's entire right, title and interest, in, to and under said Applications and said Letters Patent, and any and all renewals, reissues, reexaminations and extensions thereof.

NOW, THEREFORE, for good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, said ASSIGNOR has sold, assigned, transferred and set over and does hereby sell, assign, transfer and set over to the said ASSIGNEE, its entire right, title and interest, in, to and under said Applications and said Letters Patents and all renewals, reissues, reexaminations and extensions thereof, including any and all priority and or convention rights accruing or to accrue with respect to the filing or securing of patents in the United States, including the right to sue for past infringement, the same to be held and enjoyed by said ASSIGNEE for its own use and enjoyment, and for the use and enjoyment of its successors, assigns, or other legal representatives, to the end of the term for which said Letters Patent(s) of the United States are granted including any and all renewals, reissues.

PATENT REEL: 038656 FRAME: 0540 Assignment

National University Corporation Hokkaido University to Hitachi, Ltd.

reexaminations and extensions thereof, as fully and entirely, as the same would have been held and enjoyed by the said ASSIGNOR, if this assignment and sale had not been made.

WHEREBY, ASSIGNOR hereby grants the law firm of MATTINGLY & MALUR, PC., the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

National University Corporation Hokkaido University

W 20/2018

Date

RECORDED: 05/20/2016

By: Kéiźo YAMÁĠUCHI

Président

2