

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HITACHI INDUSTRIAL EQUIPMENT SYSTEMS CO., LTD.	04/25/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	IDEMITSU KOSAN CO., LTD.
<b>Street Address:</b>	1-1, MARUNOUCHI 3-CHOME
<b>Internal Address:</b>	CHIYODA-KU
<b>City:</b>	TOKYO
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	100-8321
<b>Name:</b>	NIPPON STEEL CORPORATION
<b>Street Address:</b>	6-1, MARUNOUCHI 2-CHOME
<b>Internal Address:</b>	CHIYODA-KU
<b>City:</b>	TOKYO
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	100-8071
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16327625
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	518753US
<b>NAME OF SUBMITTER:</b>	ELLEN MURABITO
<b>SIGNATURE:</b>	/ELLEN MURABITO/

<b>DATE SIGNED:</b>	07/09/2019
<b>Total Attachments: 2</b> source=Corp Assn (signed)#page1.tif source=Corp Assn (signed)#page2.tif	

ASSIGNMENT

WHEREAS, HITACHI INDUSTRIAL EQUIPMENT SYSTEMS CO., LTD. of 3, Kanda Neribeicho, Chiyoda-ku, Tokyo 101-0022, Japan, a corporation organized and existing under the laws of the Country of Japan, is a joint owner with IDEMITSU KOSAN CO., LTD. and NIPPON STEEL CORPORATION, by assignment, of the following application for Letters Patent of the United States of America:

APPLICATION NUMBER

FILING DATE

16/327,625

February 22, 2019

WHEREAS, IDEMITSU KOSAN CO., LTD. of 1-1, Marunouchi 3-chome, Chiyoda-ku, Tokyo 100-8321, Japan, a corporation organized and existing under the laws of the Country of Japan, and NIPPON STEEL CORPORATION, of 6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8071, Japan, each a corporation organized and existing under the laws of the Country of Japan, (hereinafter referred to as "ASSIGNEES"), are desirous of acquiring the entire right, title, and interest in and to said application for Letters Patent;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, HITACHI INDUSTRIAL EQUIPMENT SYSTEMS CO., LTD. by these presents do sell, assign, and transfer unto ASSIGNEES its entire right, title, and interest for the territory of the United States of America, in and to the aforesaid Letters Patent and/or applications for letters patent, the inventions described therein,

any and all divisions, continuations, reissues, substitutions and renewals thereof, and to any and all letters patent which have granted or may be granted therefor, said inventions and letters patent to be held and enjoyed by the ASSIGNEES, and for the use and benefit of said ASSIGNEES, and for the use and benefit of their successors, assigns or other legal representatives, to the full end of the term for which said letters patent have been granted or reissues may be granted, and for claims for damage by reasons of infringement past and present, as fully and entirely as the same would have been held by HITACHI INDUSTRIAL EQUIPMENT SYSTEMS CO., LTD. had this Assignment and sale not been made.

IN TESTIMONY WHEREOF, HITACHI INDUSTRIAL EQUIPMENT SYSTEMS CO., LTD. has caused these presents to be signed by its officer thereunto duly authorized.

HITACHI INDUSTRIAL EQUIPMENT  
SYSTEMS CO., LTD.

Date: April 25, 2019

By: Yutaka Araya  
Name: Yutaka ARAYA  
Title: President and Director