506341843 11/06/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	PARTIAL ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.)	10/23/2020

RECEIVING PARTY DATA

Name:	TOYOTA JIDOSHA KABUSHIKI KAISHA
Street Address:	1, TOYOTA-CHO, TOYOTA-SHI
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State/Country:	JAPAN
Postal Code:	471-8571

PROPERTY NUMBERS Total: 3

Property Type	Number
Application Number:	16623555
Application Number:	16628855
Application Number:	16628903

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NAME OF SUBMITTER:	ELLEN MURABITO	
SIGNATURE:	/ELLEN MURABITO/	
DATE SIGNED:	11/06/2020	

Total Attachments: 3

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> **PATENT** REEL: 054340 FRAME: 0478 506341843

PARTIAL ASSIGNMENT

WHEREAS KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.) of 2-4, Wakinohama-Kaigandori 2-chome, Chuo-ku, Kobe-shi, Hyogo 651-8585 Japan, a corporation organized and existing under the laws of the Country of Japan, is the owner, by assignment from inventors, of the following applications for Letters Patent of the United States of America:

APPLICATION NUMBER	FILING DATE
16/623,555	December 17, 2019
16/628,855	January 6, 2020
16/628,903	January 6, 2020

WHEREAS, TOYOTA JIDOSHA KABUSHIKI KAISHA of 1, Toyota-cho, Toyota-shi, Aichi 471-8571 Japan, a corporation organized and existing under the laws of the Country of Japan (hereinafter referred to as "CO-ASSIGNEE"), is desirous of acquiring a PARTIAL right, title, and interest in and to said application for Letters Patent;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.) hereby sells, assigns, transfers and sets over, unto said CO-ASSIGNEE, its successors, legal representatives and assigns, a PARTIAL right, title and interest in, to and under said invention, and said Application and all divisions, renewals, and continuations thereof, and all Patents which may be granted thereon and all reissues, reexaminations and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any other

PATENT REEL: 054340 FRAME: 0479 country or countries, together with the right to file such applications and the right to claim for the same the priority rights derived from said Applications under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models and designs which may be granted for said invention in any country or countries and all extensions, renewals, reexaminations and reissues thereof, 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 KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.) had this Assignment and sale not been made.

KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.) hereby authorizes and requests the Director of the United States Patent and Trademark Office, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents and other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to CO-ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

PATENT REEL: 054340 FRAME: 0480 IN TESTIMONY WHEREOF, KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.) has caused these presents to be signed by its officer thereunto duly authorized.

KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.)

Name: Seiji KAMEOKA

Title: General Manager of Intellectual Property Department

PATENT REEL: 054340 FRAME: 0481

RECORDED: 11/06/2020