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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RYOTA ONOE	07/19/2017
TSUYOSHI ITO	05/30/2017
YUKI TAKESUE	07/18/2017
MASATOSHI IKEBE	05/30/2017
CHIHIRO KASUYA	05/30/2017
YUTA MORISHITA	05/30/2017

RECEIVING PARTY DATA

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Postal Code:	437-1492

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15545418

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NAME OF SUBMITTER:	LISA WALSH
SIGNATURE:	/Lisa Walsh/
DATE SIGNED:	03/16/2018

PATENT REEL: 045251 FRAME: 0538

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Total Attachments: 4

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PATENT REEL: 045251 FRAME: 0539

JOINT ASSIGNMENT Attorney Docket No.: 59201-004US1

<u>ASSIGNMENT</u>

For valuable consideration, we, Ryota Once of c/o CATALER CORPORATION, 7800 Chihama, Kakegawa-shi, Shizuoka 437-1492 Japan, Tsuyoshi Ito of c/o CATALER CORPORATION, 7800 Chihama, Kakegawa-shi, Shizuoka 437-1492 Japan, Yuki Takesue of c/o CATALER CORPORATION, 7800 Chihama, Kakegawa-shi, Shizuoka 437-1492 Japan, Masatoshi Ikebe of c/o CATALER CORPORATION, 7800 Chihama, Kakegawa-shi, Shizuoka 437-1492 Japan, Chihiro Kasuya of c/o CATALER CORPORATION, 7800 Chihama, Kakegawashi, Shizuoka 437-1492 Japan, Yuta Morishita of c/o CATALER CORPORATION, 7800 Chihama, Kakegawa-shi, Shizuoka 437-1492 Japan, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled EXHAUST GAS CLEANING CATALYST, filed 7-21-2017 assigned U.S. Serial Number 15/545,418 and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment. Ryota Onoe

Date: July 19, 2017
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Date.	Tsuyoshi Ito
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JOINT ASSIGNMENT Attorney Docket No.: 59201-004US1

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PATENT REEL: 045251 FRAME: 0543

RECORDED: 03/16/2018