

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>SHOGO SHIRAKAWA</td><td>11/12/2013</td></tr><tr><td>NAOTO NAGATA</td><td>11/18/2013</td></tr><tr><td>KIMIYASU ONO</td><td>11/18/2013</td></tr><tr><td>DAICHI SATO</td><td>11/18/2013</td></tr></tbody></table>	Name	Execution Date	SHOGO SHIRAKAWA	11/12/2013	NAOTO NAGATA	11/18/2013	KIMIYASU ONO	11/18/2013	DAICHI SATO	11/18/2013	
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RECEIVING PARTY DATA											
Name:	TOYOTA JIDOSHA KABUSHIKI KAISHA										
Street Address:	1, TOYOTA-CHO										
City:	TOYOTA-SHI, AICHI										
State/Country:	JAPAN										
Postal Code:	471-8571										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>14002793</td></tr></tbody></table>	Property Type	Number	Application Number:	14002793							
Property Type	Number										
Application Number:	14002793										
CORRESPONDENCE DATA											
Fax Number:	(202)408-4400										
Phone:	2024084000										
Email:	sopheareak.in@finnegan.com										
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>											
Correspondent Name:	FINNEGAN, HENDERSON, FARABOW, GARRETT &										
Address Line 1:	901 NEW YORK AVENUE, NW										
Address Line 4:	WASHINGTON, DISTRICT OF COLUMBIA 20001										
ATTORNEY DOCKET NUMBER:	11074.0022										
NAME OF SUBMITTER:	SOPHEAREAK C. IN										
Signature:	/Sopheareak C. In/										
Date:	12/13/2013										
Total Attachments: 1 source=Assignment-11074.0022#page1.tif											

OP \$40.00 14002793

# U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter "ASSIGNOR") by

TOYOTA JIDOSHA KABUSHIKI KAISHA

(Insert  
ASSIGNEE's  
Name(s)  
Address(es))

1, Toyotacho, Toyota-shi, Aichi 471-8571, Japan

(hereinafter "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of  
Invention)

METAL PARTICLES, EXHAUST GAS PURIFYING CATALYST COMPRISING METAL  
PARTICLES, AND METHODS FOR PRODUCING THEM

relating to International Patent Application PCT/JP 2011 / 071061 and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(Insert date  
of execution  
of application,  
if not  
concurrent)

(a) executed on \_\_\_\_\_  
(b) filed on September 3, 2013  
Serial No. 14 / 002793

Assignee's attorney is hereby authorized to insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

1) <u>Shogo Shirakawa</u> (SIGNATURE)	Shogo Shirakawa (TYPE NAME)	<u>November 12, 2013</u> (DATE)
2) <u>Naoto Nagata</u> (SIGNATURE)	Naoto Nagata (TYPE NAME)	<u>November 18, 2013</u> (DATE)
3) <u>Kimiyasu Ono</u> (SIGNATURE)	Kimiyasu Ono (TYPE NAME)	<u>November 18, 2013</u> (DATE)
4) <u>Daichi Sato</u> (SIGNATURE)	Daichi Sato (TYPE NAME)	<u>November 18, 2013</u> (DATE)
5) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
6) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
7) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
8) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)

PATENT

RECORDED: 12/13/2013

REEL: 031776 FRAME: 0938