PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Jun-ichi OZAKI	04/21/2014
Hiroki TAKAHASHI	05/10/2014
Takuya TAKAHASHI	04/30/2014
Naokatsu KANNARI	04/21/2014
Rieko KOBAYASHI	04/27/2014
Naoto SAITO	04/14/2014

RECEIVING PARTY DATA

Name:	National University Corporation Gunma University
Street Address:	2, Aramaki-machi 4-chome
City:	Maebashi-shi, Gunma
State/Country:	Japan
Postal Code:	371-8510
Name:	Nisshinbo Holdings Inc.
Name: Street Address:	Nisshinbo Holdings Inc. 2-31-11, Ningyo-cho, Nihonbashi, Chuo-ku
	<u> </u>
Street Address:	2-31-11, Ningyo-cho, Nihonbashi, Chuo-ku

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	14359815

CORRESPONDENCE DATA

(703)836-2787 Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 703-836-6400 Email: email@oliff.com **Correspondent Name:** JAMES A. OLIFF Address Line 1: **OLIFF PLC**

Address Line 2: P.O. BOX 320850

Address Line 4: ALEXANDRIA, VIRGINIA 22320-4850

REEL: 032982 FRAME: 0014 502819001

PATENT

ATTORNEY DOCKET NUMBER:	160762
NAME OF SUBMITTER:	SE JIN LEE
SIGNATURE:	/se jin lee/
DATE SIGNED:	05/21/2014
Total Attachments: 4	
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source=160762 Assgn#page4.tif	

PATENT REEL: 032982 FRAME: 0015

ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

(Two Assignees)

	Insert	(1)	Jun-ichi OZAKI	(2)) _	Hiroki TAKAHASHI
(1-8)	Legal Name(s)	(3)	Takuya TAKAHASHI	(4))	Naokatsu KANNARI
	of Inventor(s)	(5)	Rieko KOBAYASHI	(6))	Naoto SAITO
		(7)		(8))	
		the under		iciency of which ar	re h	good and valuable consideration paid to each of ereby acknowledged, each undersigned agrees to
(9A)	Insert Name of First Assignee	(9A)	NATIONAL UNIVERS	ITY CORPORATION	ON	GUNMA UNIVERSITY
(10A)	Insert Address of First Assignee	(10A)	2, Aramaki-machi 4-cho	me, Maebashi-shi,	Gur	nma 371-8510 Japan
(9B)	Insert Name of Second Assignee	(9B)	Nisshinbo Holdings Inc.			
(10B)	Insert Address of Second Assignee	(10B)	2-31-11, Ningyo-cho, Ni	okyo 103-8650 Japan		
		the entire invention continua	right, title and interest for a, and in all applications for	the United States of patent including ar e and reissue applic	f An ny a catio	eirs, successors, assigns and legal representatives, merica as defined in 35 U.S.C. §100, in the and all provisional, non-provisional, divisional, on(s), and all Letters Patent, extensions, reissues nvention known as
(11)	Insert Identification such as Title, Case	(11)	SUPPORT FOR SUPPORT	ΓING METALS, M	ΙEΤ	AL-SUPPORTED CATALYST,
	Number, or Foreign		METHANATION REACT	ION APPARATUS	s, A	ND METHOD RELATING TO THESE
	Application Number	(Attorne	y Docket No. 160762),	file	ed on even date herewith or as
(12)	Alternative	(12)	U.S. Application Number	14/359,8	15	
	Identification for filed applications	filed	May 21, 20	14		

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignees may deem necessary.
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be declared concerning any application or patents for the invention and to cooperate with the Assignees in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding.
- 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignees.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignees, as Assignees of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of OLIFF PLC the power to insert on this assignment any further identification that 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.

(13) Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

in witness whereof,	executed by the	undersigned on	the date(s) opposit	e the undersigned	name(s).

Date		Inventor Signature			(SEAL)
Date		Inventor Signature			(SEAL)
Date		Inventor Signature			(SEAL)
Date		Inventor Signature			(SEAL)
Date	2014.4.27	Inventor Signature	Rieko	Kobayashi	(SEAL)
Date	2014.4.14	Inventor Signature	Naoto	Saite	(SEAL)
Date		Inventor Signature		 	(SEAL)
Date		Inventor Signature			(SEAL)
neither,	This assignment should preferably be si then it should be signed before at least tw			(b) a U.S. Consul if outside	the U.S.A. If
Date		Witness	14.		·
Date		Witness			

ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

(Two Assignees)

	Insert	(1)	Jun-ichi OZAKI	(2	2)	Hiroki TAKAHASHI
(1-8)	Legal Name(s)	(3)	Takuya TAKAHASHI	(4	!)	Naokatsu KANNARI
	of Inventor(s)	(5)	Rieko KOBAYASHI	(6	6)	Naoto SAITO
		(7)		(8)	3)	
		the unde	deration of the sum of one do rsigned, the receipt and suff nd hereby does assign, trans	iciency of which a	re h	good and valuable consideration paid to each of ereby acknowledged, each undersigned agrees to
(9A)	Insert Name of First Assignee	(9A)	NATIONAL UNIVERSI	TY CORPORATI	ON	GUNMA UNIVERSITY
(10A)	Insert Address of First Assignee	(10A)	2, Aramaki-machi 4-chor	ne, Maebashi-shi,	Gur	nma 371-8510 Japan
(9B)	Insert Name of Second Assignce	(9B)	Nisshinbo Holdings Inc.			
(10B)	Insert Address of Second Assignee	(10B)	2-31-11, Ningyo-cho, Nil	honbashi, Chuo-ku	ı, To	okyo 103-8650 Japan
		the entire invention continua	e right, title and interest for t n, and in all applications for	he United States of patent including a and reissue applic	of Ann ny a catio	eirs, successors, assigns and legal representatives, merica as defined in 35 U.S.C. §100, in the and all provisional, non-provisional, divisional, on(s), and all Letters Patent, extensions, reissues nvention known as
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	Number, or Foreign Application Number		METHANATION REACTI	ON APPARATUS	S, A	ND METHOD RELATING TO THESE
	Application Number	(Attorne	y Docket No. 160762),	, file	ed on even date herewith or as
(12)	Alternative Identification for	(12)	U.S. Application Number	14/359,8	31	5
	filed applications	filed	May 21, 201	. 4		

1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignees may deem necessary.

2) Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be declared concerning any application or patents for the invention and to cooperate with the Assignees in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding.

3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignees.

5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignces, as Assignces of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.

6) Each undersigned hereby grants the firm of OLIFF PLC the power to insert on this assignment any further identification that 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.

(13) Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date	·	Inventor Signature		(SEAL)
Date	May 10.2014	Inventor Signature	Hiroki Takahashi	(SEAL)
Date	April 30, 2014	Inventor Signature	Takuya Takohashi	(SEAL)
Date	April 21, 2014	Inventor Signature	Nackatsu Kannayi	(SEAL)
Date	April 21, 2014	Inventor Signature	Fil goli.	(SEAL)