## 503334213 06/03/2015

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT3380831 Stylesheet Version v1.2

SUBMISSION TYPE:NEW ASSIGNMENTNATURE OF CONVEYANCE:ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
MASANORI SAITO	05/25/2015
TAKESHI OKIDO	06/02/2015
SOUICHIROU KONNO	05/29/2015
KUNIKO ADEGAWA	06/02/2015

### **RECEIVING PARTY DATA**

Name:	JX NIPPON OIL & ENERGY CORPORATION			
Street Address: 6-3, OTEMACHI 2-CHOME, CHIYODA-KU,				
City:	TOKYO			
State/Country:	JAPAN			
Postal Code:	100-8162			

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	14649366	

#### **CORRESPONDENCE DATA**

**Fax Number:** (703)716-1180

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:** 703-716-1191

**Email:** gbpatent@gbpatent.com

Correspondent Name: GREENBLUM & BERNSTEIN, P.L.C. Address Line 1: 1950 ROLAND CLARKE PLACE

Address Line 4: RESTON, VIRGINIA 20191

ATTORNEY DOCKET NUMBER:	P47998
NAME OF SUBMITTER:	DANIEL B. MOON
SIGNATURE:	/Daniel B. Moon/
DATE SIGNED:	06/03/2015

**Total Attachments: 2** 

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PATENT 503334213 REEL: 035778 FRAME: 0501

# ASSIGNMENT

Chiyoda-ku, Tokyo 100-8162 Japan  c/o JX Nippon Oil & Energy Corporation,  6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8162 Japan  c/o JX Nippon Oil & Energy Corporation,  6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8162 Japan  c/o JX Nippon Oil & Energy Corporation,  6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8162 Japan  c/o JX Nippon Oil & Energy Corporation,			ASSIC	ATATATE TA T	
Maranori SAITO	Whereas, I/we	,			
6.3, Otenachi 2-benes, Chiyoda-ka, Tokyo 100-8 Energy Corporation, 6.3, Otenachi 2-benes, Chiyoda-ka, Tokyo 100-8 Energy Corporation, 6.3, Otenachi 2-benes, 6.3	<u>Nat</u>	ne	<u>A</u>	<u>ddress</u>	
6.3, Otenachi 2-benes, Chiyoda-ka, Tokyo 100-8 Energy Corporation, 6.3, Otenachi 2-benes, Chiyoda-ka, Tokyo 100-8 Energy Corporation, 6.3, Otenachi 2-benes, 6.3			c/o JX Nippon Oil & Er	nergy Corporation,	
Chyoda-ka, Tokyo 10-8-162 Japan  50 Soulchirou KONO  51 Soulchirou KONO  52 Soulchirou KONO  53 Soulchirou KONO  53 Soulchirou KONO  54 Kuniko ADEGAWA  55 Nippen Oil & Energy Corporation, 6-3, Otenashi 2-cheme, Chiyoda-ka, Tokyo 10-8-162 Japan  56 Ji Krippen Oil & Energy Corporation, 6-3, Otenashi 2-cheme, Chiyoda-ka, Tokyo 10-8-162 Japan  56 Ji Krippen Oil & Energy Corporation, 6-3, Otenashi 2-cheme, Chiyoda-ka, Tokyo 10-8-162 Japan  56 Ji Krippen Oil & Energy Corporation, 6-3, Otenashi 2-cheme, Chiyoda-ka, Tokyo 10-8-162 Japan  and executed an application for Letters Patent of the United States of America therefor on even date herewith unless otherwise indicated below:  56 Ji Chemachi 2-cheme, The Cooland Corporation 6-3, Otenashi 2-cheme, 15 Nippen Oil & Energy Corporation 6-3, Otenashi 2-cheme, Chiyoda-ku, Tokyo 100-8162 Japan  (assignee), desires to acquire the entire right, tilde and interest in the application and invention, and to any United States patents to be obtained therefor, NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is hereby acknowledged, J.WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be grunted thereon, and all reissues thereof; and JWE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assi	l) Masanor	i SAITO	6-3, Otemachi 2-chome	3,	
Takeshi OKIDO   6-3, Otensehi 2-benes,   Chiyoda-ka, Tohyo 100-8162 Japan   6-10 Kippon Oil & Energy Corporation,   6-3, Otensehi 2-benes,   Chiyoda-ka, Tohyo 100-8162 Japan   6-10 Kippon Oil & Energy Corporation,   6-3, Otensehi 2-benes,   Chiyoda-ka, Tohyo 100-8162 Japan   6-10 Kippon Oil & Energy Corporation,   6-3, Otensehi 2-benes,   Chiyoda-ka, Tohyo 100-8162 Japan   6-10 Kippon Oil & Energy Corporation,   6-3, Otensehi 2-benes,   Chiyoda-ka, Tohyo 100-8162 Japan   COOLING-EQUIPMENT WORKING-FILID COMPOSITION			<u> </u>		
Chiyoka-ka, Tokyo 100-8162 Japan elo JR. Nippon Old & Energy Corporation, 6-3, Chemachi J-Scheme, Chiyoka-ka, Tokyo 100-8162 Japan elo JR. Nippon Old & Energy Corporation, 6-3, Chemachi J-Scheme, Chiyoka-ka, Tokyo 100-8162 Japan elo JR. Nippon Old & Energy Corporation, 6-3, Chemachi J-Scheme, Chiyoka-ka, Tokyo 100-8162 Japan elo JR. Nippon Old & Energy Corporation, 6-3, Chemachi J-Scheme, Chiyoka-ka, Tokyo 100-8162 Japan end executed an application for Letters Patent of the United States of America therefor on even date herewith unless otherwise indicated below:  filed on, Serial No; and Whereas JR. Nippon Old & Energy Corporation 6-3, Otemachi 2-chome, Chiyoda-ka, Tokyo 100-8162 Japan (assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States patents to be obtained therefor, NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention and assigns, in successors and assigns, in successors and assigns, in successors and assigns, in successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United	a) m 1 1.	ATTINA	•••		
Solichirou KONO  63, Clemasià 2-benne, Chiyoda-ku, Takyo 100-8162 Japan  correinafter called assignor(s), have invented certain improvements in COOLING-EQUIPMENT WORKING-FLUID COMPOSITION  and executed an application for Letters Patent of the United States of America therefor on even date herewith unless otherwise indicated below:  filed on, Serial No; and  Whereas  IX Nippon Oil & Energy Corporation 6-3, Otemachi 2-chome, Chiyoda-ku, Takyo 100-8162 Japan  Exemple of the Energy Corporation 6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8162 Japan  (assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States patents to be obtained therefor,  NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is hereby acknowledged, IVWE, as assignor(s), have sold, assigned, transferred, and set over and to be assignee, its lawful successors and assigns, MY/OUR entire right, title, and tretest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and IWE hereby anthorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, excelled all divisional, outrinuation, and reissue applications	2) Takeshi	OKIDO	•		
Souichirou KONNO  6-3, Chemisch 2-belome, Chiyoda-ku, Tokyo 100-8162 Japan co JR Nippon Oil & Energy Corporation, 6-3, Chemisch 2-benne, Chiyoda-ku, Tokyo 100-8162 Japan co JR Nippon Oil & Energy Corporation, 6-3, Chemisch 2-benne, Chiyoda-ku, Tokyo 100-8162 Japan  and executed an application for Letters Patent of the United States of America therefor on even date herewith unless otherwise indicated below.  filed on, Serial No; and Whereas JX Nippon Oil & Energy Corporation 6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8162 Japan  (assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States patents to be obtained therefor; NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is hereby acknowledged, LWE, as assignor(s), have sold, assigned, transferred, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and JWE breeby authorize and request the Commissioner Detents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment,  AND, LWE HEREBY further covenant and agree that LWE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, expressed and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, except and deliver all divis					
Chiyota-ka, Tokyo 100-8162 Japan elo IX Nippon Oil & Energy Corporation, 6-3, Otemachi 2-chome, Chiyota-ka, Tokyo 100-8162 Japan ereinafter called assignor(s), have invented certain improvements in COOLING-EQUIPMENT WORKING-FLUID COMPOSITION  and executed an application for Letters Patent of the United States of America therefor on even date herewith unless otherwise indicated below: filed on, Serial No; and Whereas JX Nippon Oil & Energy Corporation 6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8162 Japan  (assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States patents to be obtained therefor; NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over unot the assignee, its lawful successors and assigns, MY/OUR entire right, title, and truters in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in necordance with the terms of this Assignment,  AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assig	3) Souichire	ou KONNO			
A Kuniko ADEGAWA  6-3, Otemicali 2-shorms, Chiyoda-ku, Tokyo 100-8162 Ispan  Arreinafter called assignor(s), have invented certain improvements in COOLING-EQUIPMENT WORKING-FLUID COMPOSITION  and executed an application for Letters Patent of the United States of America therefor on even date herewith unless otherwise indicated below.  filed on	3)		Chiyoda-ku, Tokyo 100	0-8162 Japan	
Chiyoda-ku, Tokyo 10-3-162 Japan  rereinafter called assignor(s), have invented certain improvements in  COOLING-EQUIPMENT WORKING-FLUID COMPOSITION  and executed an application for Letters Patent of the United States of America therefor on even date herewith unless otherwise indicated below:  filed on					
and executed an application for Letters Patent of the United States of America therefor on even date herewith unless otherwise indicated below:  filed on	4) Kuniko A	ADEGAWA	•		
and executed an application for Letters Patent of the United States of America therefor on even date herewith unless otherwise indicated below:    filed on		<u> </u>	Chiyoda-ku, Tokyo 100	0-8102 Japan	
and executed an application for Letters Patent of the United States of America therefor on even date herewith unless otherwise indicated below:    filed on	hereinafter cal	lled assignor(s), have i	nvented certain improve	ements in	
and executed an application for Letters Patent of the United States of America therefor on even date herewith unless otherwise indicated below:    Filed on					
indicated below:  filed on	COOTWO-1	EQUITIMENT WOR	KIIG-FLOID COM	OBITION	
Whereas  JX Nippon Oil & Energy Corporation 6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8162 Japan  (assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States patents to be obtained therefor, NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in ascordance with the terms of this Assignment,  AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.  NVENTORS  DATE SIGNED  Name:  Masanori SAITO  June 2, 2015  Name:  Takeshi OKIDO  May 29, 21/5		ow:			• •
JX Nippon Oil & Energy Corporation 6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8162 Japan  (assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States patents to be obtained therefor;  NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;  AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.  INVENTORS  DATE SIGNED  May 25, 2015  Name:  Takeshi OKIDO  Takeshi OKIDO  3): Swithrough Ramoo				, Serial No	, and
6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8162 Japan  (assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States patents to be obtained therefor;  NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;  AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.  INVENTORS  DATE SIGNED  May 25, 2015  Name:  Takeshi OKIDO  3):  Tukeshi Okido  May 29, 22, 55					
Chiyoda-ku, Tokyo 100-8162 Japan  (assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States patents to be obtained therefor;  NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment,  AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.  INVENTORS  DATE SIGNED  Agy 25, 2015  Name:  Takeshi OKIDO  Tuke 5h; Okido  May 29, 2015	JX		=		
(assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States patents to be obtained therefor;  NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;  AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.  INVENTORS  DATE SIGNED  May 25, 2015  Name:  Takeshi OKIDO  Tukeshi Okido  May 29, 2015		•	·		
Patents to be obtained therefor;  NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR enter right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;  AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.  INVENTORS  DATE SIGNED  Tukeshi Okido  Tukeshi Okido  Tukeshi Okido  May 29, 215			-		
Patents to be obtained therefor;  NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR enter right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;  AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.  INVENTORS  DATE SIGNED  Tukeshi Okido  Tukeshi Okido  Tukeshi Okido  May 29, 215	(assignee), de	sires to acquire the en	tire right, title and intere	st in the application and invention	, and to any United States
NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;  AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.  INVENTORS  DATE SIGNED  Agy 25, 2015  Name:  Takeshi OKIDO  Tukeshi Okido  Takeshi OKIDO  3):  Sevichivou Kammo			_		
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1): Maraneri Anite May 25, 2015  Name: Masanori SAITO  2): Tukeshi Okido June 2, 2015  Name: Takeshi OKIDO  3): Souichiron Konno May 29, 2015	assignee, its sign all lawfu the title to thi applications, and enforce p	successors and assigns all papers when called us is invention in said asso make all rightful oaths proper patent protection	, any facts known to ME upon to do so, execute ar ignee, its successors and and generally do everyth for this invention in the	I/US respecting this invention and ad deliver all papers that may be not assigns, execute all divisional, cothing possible to aid assignee, its see United States, it being understood	testify in any legal proceeding, ecessary or desirable to perfect ntinuation, and reissue uccessors and assigns, to obtain
2): Tukeshi Okido June 2, 2015 Name: Takeshi OKIDO  3): Souichirou Konno May 29, 2015					DATE SIGNED
2): Tukeshi Okido June 2, 2015 Name: Takeshi OKIDO  3): Souichirou Konno May 29, 2015	1) .	masanor	i Saite	May	25, 2015
2): Tukeshi Okido June 2, 2015 Name: Takeshi OKIDO  3): Souichirou Konno May 29, 12.15	•		Masanori SAITO		
Name: Takeshi OKIDO  3): Souichirou Kanno May 29, 2.2.15				June	2, 2015
3): Souidiron Konno May 29, 20/5	•		Takachi OVIDO		
	mame:				
Name: Souichirou KONNO	3):				29 1.2.15
	Name:	S	ouichirou KONNO		

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. § 261)

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Kuniko adegana 4): Name:

June, 2, 2015

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