

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KUNIHICO IBAYASHI	05/16/2016
HISAO ITO	05/13/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	JX NIPPON OIL & ENERGY CORPORATION
<b>Street Address:</b>	1-2, OTEMACHI 1-CHOME
<b>Internal Address:</b>	CHIYODA-KU
<b>City:</b>	TOKYO
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	1008162
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15178789
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(908)654-7866
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<b>ATTORNEY DOCKET NUMBER:</b>	OKUYAM 3.0-115
<b>NAME OF SUBMITTER:</b>	MELINDA C. CORMIER
<b>SIGNATURE:</b>	/Melinda C. Cormier/
<b>DATE SIGNED:</b>	06/10/2016
<b>Total Attachments: 2</b>	
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source=OKUYAM 3.0-115 (130)_ASSIGNMENT#page2.tif	

# ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

Whereas, I, Kunihiko IBAYASHI of

c/o JX NIPPON OIL & ENERGY CORPORATION, 1-2, Otemachi 1-chome, Chiyoda-ku, Tokyo 100-8162 Japan  
hereafter referred to as assignor, have invented certain new and useful improvements in

## MESH STRUCTURE

☒ for which an application for a United States Letters Patent was filed on June 10, 2016  
Application Number 15/178,789

☐ for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_,

☐ for which an International Application was filed on \_\_\_\_\_, as  
\_\_\_\_\_, designating the United States.

And

Whereas, JX NIPPON OIL & ENERGY CORPORATION

a corporation of JAPAN herein referred to as "assignee" whose mailing address is  
1-2, Otemachi 1-chome, Chiyoda-ku, Tokyo 100-8162 Japan

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee the entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns; to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

May 16, 2016

Date

Yasuhiko Toida

Witness

Yasuhiko Toida

Kunihiko Ibayashi  
Kunihiko IBAYASHI

LD-516A

PATENT

REEL: 038879 FRAME: 0551

Docket Number (Optional)

**ASSIGNMENT OF UTILITY APPLICATION**Whereas, I, Hisao ITO of

c/o JX NIPPON ANCI CORPORATION, 2700-72, Koike, Shibayama-machi, Sanbu-gun, Chiba 289-1624 Japan  
 hereafter referred to as assignor, have invented certain new and useful improvements in

**MESH STRUCTURE**

- ☒ for which an application for a United States Letters Patent was filed on June 10, 2016  
 Application Number 15/178,789
- ☐ for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_,
- ☐ for which an International Application was filed on \_\_\_\_\_, as  
 \_\_\_\_\_, designating the United States.

And

Whereas, JX NIPPON OIL & ENERGY CORPORATIONa corporation of JAPAN herein referred to as "assignee" whose mailing address is1-2, Otemachi 1-chome, Chiyoda-ku, Tokyo 100-8162 Japan

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee the entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

May 13, 2016  
 Date

Hisao Ito  
 Hisao ITO

Takashi Onodera  
 Witness

Takashi Onodera

**PATENT**