502060014 09/13/2012

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Kazuaki Hirasawa	07/04/2012
Hiroshi Satoh	07/04/2012
Hisashi Yoneda	07/04/2012
Tetsuhisa Yata	07/04/2012
Mitsutoshi Azuma	07/04/2012

RECEIVING PARTY DATA

Name:	JX Nippon Oil & Energy Corporation	
Street Address:	6-3, Otemachi 2-chome	
Internal Address:	Chiyoda-ku	
City:	Tokyo	
State/Country:	JAPAN	
Postal Code:	100-8162	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13634657

CORRESPONDENCE DATA

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via US Mail.

Correspondent Name: McCarter & English, LLP Address Line 1: 405 N. King Street, 8th Floor Address Line 4: Wilmington, DELAWARE 19801

ATTORNEY DOCKET NUMBER: 119244-00030

PATENT

REEL: 028955 FRAME: 0273

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NAME OF SUBMITTER:	Basil S. Krikelis
Total Attachments: 2 source=119244-00030 ASSIGNMENT#page1.tif source=119244-00030 ASSIGNMENT#page2.tif	

PATENT REEL: 028955 FRAME: 0274 Attorney's Docket No.: 119244-00030

Assignment of Application

WHEREAS, I (WE)
Kazuaki HIRASAWA, Hiroshi SATOH, Hisashi YONEDA, Tetsuhisa YATA and
Mitsutoshi AZUMA of all
c/o JX Nippon Oil & Energy Corporation, 6-3, Otemachi 2-chome, Chiyoda-ku,
Tokyo 100-8162 Japan , respectively,
have invented certain new and useful improvements in: <u>METHOD FOR PRODUCING</u>
ASTAXANTHIN BY FERMENTATION
for which an application for Letters Patent was executed on
(Application No. <u>PCT/JP2011/056033</u> , filed <u>March 15, 2011</u>), and
WHEREAS, JX NIPPON OIL & ENERGY CORPORATION
(hereinafter referred to as "ASSIGNEE") having a place of business at:
6-3, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8162 Japan
is desirous of acquiring the entire right, title and interest in and to said invention and in and to
any Letters Patent that may be granted therefore in the United States and its territorial
possessions and in any and all foreign countries

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any official of any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

PATENT REEL: 028955 FRAME: 0275 Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its legal representatives and assigns covenant and any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of McCARTER & ENGLISH, LLP of Renaissance Centre, 405 N. King Street, 8th Floor Wilmington, DE 19801 U.S.A. the power to insert on this assignment any further identification, including the application number and filing date, which 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.

Date: Jul. 4, 2012	daguak) Lirasova
	(Signature of inventor) Kazuaki HIRASAWA
Date: Jul. 4, 2012	Hiroshi Satou
	(Signature of inventor) Hiroshi SATOH
Date: Jul - 4. 2012	96 isæslie Glanoda
	(Signature of inventor) Hisashi YONEDA
Date: Jul. 4, 2012	Tetsuhisa Yata
Date: Jul. 4 , 2012	(Signature of inventor) Tetsuhisa YATA Mitsutoshi Aguma
	(Signature of inventor) Mitsutoshi AZUMA

PATENT REEL: 028955 FRAME: 0276

RECORDED: 09/13/2012