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01 Rec'd PCT 08 APR 2010

12/734066

Attorney Docket No. 145207

Please record the attached original document or copy thereof.

1. A. Name of conveying parties:

Ilhyong RYU  
Masaaki SATO  
Takahiro SAGAE  
Kenichi HAYASHI

B. Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. A. Name and address of receiving parties:

(1) NIPPON SODA CO., LTD.  
2-1, OHTEMACHI 2-CHOME  
CHIYODA-KU, TOKYO  
100-8165 JAPAN

(2) OSAKA PREFECTURE  
UNIVERSITY PUBLIC  
CORPORATION  
1-1, GAKUEN-CHO, NAKA-KU  
SAKAI-SHI, OSAKA 599-8531  
JAPAN

3. A. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

B. Execution Date: All: April 5, 2010

B. Additional name(s) & address(es) attached?

☐ Yes ☒ No

4. ☒ This document is being filed together with a new application.

A. Patent Application No.(s) \_\_\_\_\_

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

C. Title of Application: MICROREACTOR AND LIQUID PHASE CHEMICAL REACTION METHOD USING MICROREACTOR

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: James A. Oliff

Address: OLIFF & BERRIDGE, PLC  
P.O. Box 320850  
Alexandria, VA 22320-4850

6. Total number of applications and patents involved: 1

7. A. Total fee (37 CFR 3.41).....\$ 40.00

B. Enclosed (Check No. 228116)

8. Credit any overpayment or charge any underpayment to deposit account number 15-0461. 48.00

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

James A. Oliff  
James A. Oliff, Registration No. 27,075  
Jeffrey R. Bousquet, Registration No. 57,771

Date: April 8, 2010

Total number of pages including cover sheet, attachments, and document: 3

PATENT

REEL: 024228 FRAME: 0314

# ASSIGNMENT

1AP01Rec'd PCT 08 APR 2010

12/734066

(1-8) Insert Name(s) of Inventor(s)

(1) Ilhyong RYU (5) \_\_\_\_\_

(2) Masaaki SATO (6) \_\_\_\_\_

(3) Takahiro SAGAE (7) \_\_\_\_\_

(4) Kenichi HAYASHI (8) \_\_\_\_\_

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to

(9) Insert Name of Assignee

(9) (1) Nippon Soda Co., Ltd.  
(2) OSAKA PREFECTURE UNIVERSITY Public Corporation

(10) Insert Address of Assignee

(10) (1) 2-1, Ohtemachi 2-chome, Chiyoda-ku, Tokyo 100-8165 Japan  
(2) 1-1, Gakuen-cho, Naka-ku, Sakai-shi, Osaka 599-8531 Japan

(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, confirmation, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11) Insert Identification such as Title, Case Number, or Foreign Application Number

(11) MICROREACTOR AND LIQUID PHASE CHEMICAL REACTION METHOD USING MICROREACTOR

(Attorney Docket No. 145207 )

for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or

(12) Insert Date of Signing of Application

(12) on April 5, 2010

(13) Alternative Identification for filed applications

(13) U.S. application Serial Number \_\_\_\_\_  
filed April 8, 2010

1) Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.

2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.


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 Assignee.

5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives.

6) Each undersigned hereby grants the firm of **OLIFF & BERRIDGE, 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.

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

Date	<u>April 5, 2010</u>	Inventor Signature		(SEAL)
Date	<u>April 5, 2010</u>	Inventor Signature	<u>Masaaki SATO</u>	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date	_____	Witness	_____
Date	_____	Witness	_____

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Date	Witness

PATENT

RECORDED: 04/08/2010

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