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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Keiji TOMURA  
Takashi OGAWA  
Masami ONO  
Keiichi OKUYAMA  
Seiji AOKI  
Tsutomu SHIKADA

4-25-02

2. Name and address of receiving party(ies):

NKK CORPORATION  
1-2, Marunouchi 1-chome  
Chiyoda-ku, Tokyo 100-8202  
JAPAN

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: April 15, 2002

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)  
10/048,640

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

SUGHRUE MION, PLLC  
2100 Pennsylvania Avenue, N.W.  
Suite 800  
Washington, D.C. 20037-3213

6. Total number of applications and patents involved:

1

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

- ☒ Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 19-4880.  
☐ Authorized to be charged to deposit account

8. Deposit account number:

19-4880

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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.

Joseph J. Ruch, Jr.

Reg. No. 26,577

April 25, 2002

Date

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

Mail documents to be recorded with required cover sheet information to:

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04/30/2002 TDIAZ1 00000150 10048640

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PATENT  
REEL: 012836 FRAME: 0925

# ASSIGNMENT

Whereas, we, (1) Keiji TOMURA of c/o NKK CORPORATION, 1-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8202, Japan, (2) Takashi OGAWA of c/o NKK CORPORATION, 1-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8202, (3) Masami ONO of c/o NKK CORPORATION, 1-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8202, Japan, (4) Keiichi OKUYAMA of c/o NKK CORPORATION, 1-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8202, Japan, (5) Seiji AOKI of c/o NKK CORPORATION, 1-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8202, Japan, (6) Tsutomu SHIKADA of c/o NKK CORPORATION, 1-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8202, Japan, (7) Masatsugu MIZUGUCHI of Kunitachihaimu 207, 14-51, Nishi 1-chome, Kunitachi-shi, Tokyo 186-0005, Japan, and (8) Yotaro OHNO of c/o NKK CORPORATION, 1-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8202, hereinafter called assignors, have invented certain improvements in

## MEDIUM OIL FOR SLURRY-BED REACTION PROCESS AND PROCESS OF PRODUCING DIMETHYL ETHER

and executed an application for Letters Patent of the United States of America therefor on

April 15, 2002 ; and

Whereas, NKK CORPORATION of 1-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8202, 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, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. § 119, and we request the Director – U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3213 to insert here in parentheses (Application number 10/048,640 and Confirmation number \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

Date: April 15, 2002

s/ Keiji Tomura  
Keiji TOMURA

Date: April 15, 2002

s/ Takashi Ogawa  
Takashi OGAWA

Date: April 15, 2002

s/ Masami Ono  
Masami ONO

Date: April 15, 2002

s/ Keiichi Okuyama  
Keiichi OKUYAMA

Date: April 15, 2002

s/ Seiji Aoki  
Seiji AOKI

Date: April 15, 2002

s/ Tsutomu Shikada  
Tsutomu SHIKADA

Date: April 15, 2002

s/ Masatsugu Mizuguchi  
Masatsugu MIZUGUCHI

Date: April 15, 2002

s/ Yotaro Ohno  
Yotaro OHNO

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