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6-18-03

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

## 1. Name of conveying party(ies):

Michio NAKAYAMA

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

1. **JP STEEL PLANTECH CO.**  
32-23, Tsurumi-chuo 4-chome,  
Tsurumi - ku, Yokohama, JAPAN
2. **YOSHIZAWA LIME INDUSTRY CO., LTD.**  
7-10, Miyashita-cho, kuzuu-machi, Aso-gun  
Tochigi, JAPAN
3. **MERICHEM COMPANY**  
109 North Post Oak Lane, Suite 530,  
Houston, TEXAS

## 3. Nature of conveyance: - ASSIGNMENT

Execution Date(s): June 4, 2003, \_\_\_\_\_, \_\_\_\_\_, respectively.

## 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 as follows:

A. Patent Application No. (s)

10/400,009

B. Patent No.(s)

, respectively.

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

**FRISHAUF, HOLTZ, GOODMAN & CHICK, P.C.**  
767 Third Avenue, 25th Floor  
New York, New York 10017-2023

6. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$ 40.00☐ Amount included with filing fee attached hereto.☒ Check enclosed.

8. To the extent not tendered by check, authorization is given to charge the Assignment Fee (37 CFR.341) to Account No. 06-1378.

## 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.

06/19/2003 ECOOPER 00000072 10400009

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Dated: June 9, 2003

40.00 DP

By: Leonard Holtz  
Reg. No. 22,974

## CERTIFICATE OF MAILING

I hereby certify this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class mail in an envelope addressed to: Mail Stop Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 on the date noted below.

  
Sharon PortnoyDated: June 9, 2003

**ASSIGNMENT**

In consideration of value received, I, having a residence and post office address as stated below next to my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of an invention described in an application for United States patent entitled: **INDIRECT HEATING FURNACE**

- sell and assign to 1. **JP STEEL PLANTECH CO.**, a corporation of JAPAN, and having a business address at 32-23, Tsurumi-chuo 4-chome, Tsurumi - ku, Yokohama, JAPAN
- sell and assign to 2. **YOSHIZAWA LIME INDUSTRY CO., LTD.**, a corporation of JAPAN and having a business address at 7-10, Miyashita-cho, kuzuu-machi, Aso-gun, Tochigi, JAPAN
- sell and assign to 3. **MERICHEM COMPANY** a corporation organized under the laws of the State of DELAWARE, and having a business address at 109 North Post Oak Lane, Suite 530, Houston, TEXAS

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said application for United States patent which was filed on March 26, 2003 and given Serial No. 10/400,009.

and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty it is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all countries.

I hereby grant to any attorney member of the following law firm the power to insert on this Assignment the Serial Number and filing date of said application when known.

SERIAL NO.: 10/400,009

FILING DATE: March 26, 2003

Frishauf, Holtz, Goodman & Chick, P.C., 767 Third Avenue - 25th Floor, New York, N.Y. 10017-2023.

**INVENTOR: SIGNATURE****DATE****POST OFFICE ADDRESS**

Sign: <i>Michio Nakayama</i>	Date: <i>June 4, 2003</i>	Address: C/O JP STEEL PLANTECH CO., 32-23 Tsurumi-chuo 4-chome, Tsurumi-ku, Yokohama, JAPAN
Type: Michio NAKAYAMA	Witness:	
Sign:	Date:	Address:
Type:	Witness:	
Sign:	Date:	Address:
Type:	Witness:	

**PATENT****RECORDED: 06/18/2003****REEL: 014180 FRAME: 0293**