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11-03-00

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

1. Name of conveying party(ies):

Yuichi IJIRI
Takeshi NISHIMURA
Kazuhiko SAKAMOTO
Osamu DODO

Additional names(s) of conveying party(ies) attached? Yes No

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

Name: Nippon Shokubai Co., Ltd.
Address: 1-1, Koraibashi 4-chome, Chuo-ku,
Osaka-shi

JCS17 U.S. PTO
09/705351
11/03/00

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

City: Osaka State/Prov.: _____
Country: Japan ZIP: 541-0043

Execution Date: October 27, 2000

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

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: October 27, 2000

Patent Application No. Filing date B. Patent No.(s)

09/705351

Additional numbers attached? Yes No

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

Name: Diane Dunn McKay
Registration No. 34,586
Address: Mathews, Collins, Shepherd & Gould, P.A.
100 Thanet Circle, Suite 306

City: Princeton State/Prov. NJ
Country: USA ZIP: 08540

6. Total number of applications and patents involved: **1**

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

- Enclosed - Any excess or insufficiency should be credited or debited to deposit account
- Authorized to be charged to deposit account

8. Deposit account number:

13-2165

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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.

Diane Dunn McKay

November 3, 2000

Name of Person Signing

Signature

3

Date

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

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:

VERTICAL HEAT EXCHANGER

sell and assign to NIPPON SHOKUBAI CO., LTD.
a corporation of duly organized under the laws of Japan
having a business address at 1-1, Koraihashi 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0043 Japan

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 executed concurrently herewith;

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.:

FILING DATE:

INVENTOR: SIGNATURE	DATE	ADDRESS
Sign: <i>Yuichi Ijiri</i>	Date: 27-06-2000	Address: 931-11, Hamada, Aboshi-ku, Himeji-shi, Hyogo 671-1242 Japan
Type: Yuichi IJIRI	Witness: <i>Keishi Tsuboi</i>	
Sign: <i>Takeshi Nishimura</i>	Date: Keishi TSUBOI 27-06-2000	Address: 169-9, Kamigawara, Yobe-ku, Himeji-shi, Hyogo 671-1263 Japan
Type: Takeshi NISHIMURA	Witness: <i>Keishi Tsuboi</i>	
Sign: <i>Kazuhiko Sakamoto</i>	Date: Keishi TSUBOI 27-06-2000	Address: 25-5, Taderahigashi 4-chome, Himeji-shi, Hyogo 670-0081 Japan
Type: Kazuhiko SAKAMOTO	Witness: <i>Keishi Tsuboi</i>	
Keishi TSUBOI		
NOTES: MUST BE DATED. WITNESS DESIRABLE. LEGALIZATION NOT REQUIRED.		

RECORDING OFFICER:

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PATENT
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ASSIGNMENT

INVENTOR: SIGNATURE	DATE	ADDRESS
Sign: <i>Osamu Dodo</i>	Date: <i>27-07-2000</i>	Address: 255-54, Shinzaike, Ibogawa-cho, Ibo-gun, Hyogo 671-1611 Japan
Type: Osamu DODO	Witness: <i>Keishi Tsuboi</i>	
Sign:	Date: Keishi TSUBOI	Address:
Type:	Witness:	
Sign:	Date:	Address:
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