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U.S DEPARTMENT OF COMMERCE Patent and Trademark Office

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Attorney Docket No. 56207.52363US

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

1. Name of conveying party(ies):

- 1. Hiroshi TAKAYASU
- 2. Noboru BABA
- 3. Shouichi NAKASHIMA
- 4. Tadashi IIZUKA
- 5. Toshiaki YAMANAKA
- 6. Hiroaki OGURA
- 7. Toshiomi FUKUDA
- 8. Shinichi OZAKI



2. Name and address of receiving party(ies)

Name: Hitachi, Ltd. Address: 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan

And;

Name: Toyo Tanso Co., Ltd. Address: 5-7-12, Takeshima, Nishiyodogawa-ku, Osaka-shi, Osaka, Japan

3. Nature of Conveyance:

[X] Assignment

Execution Date: 1. May 6, 2003 2. May 6, 2003 3. May 8, 2003 4. May 15, 2003 5. May 7, 2003 6. May 28, 2003 7. May 26, 2003 8. May 27, 2003

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)

10/419,980

B. Patent No(s).

Additional numbers attached? _ Yes [X] No

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

Crowell & Moring LLP Intellectual Property Group P.O. Box 14300 Washington, D.C. 20044-4300

6. Total number of applications and patents involved: 1

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

[X] Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 05-1323

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8. Deposit Account No.

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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.

James F. McKeown Reg. No. 25,406

August 20, 2003 Date

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET, ATTACHMENTS, AND DOCUMENT: 2

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services P. O. Box 1450 Alexandria, VA 22313-1450

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40.00 OP

ASSIGNMENT
(譲渡証)

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to Hiroshi TAKAYASU, Noboru BABA, Shouichi NAKASHIMA, Tadashi IIZUKA, Toshiaki YAMANAKA, Hiroaki OGURA, Toshiomi FUKUDA and Shinichi OZAKI citizens of Japan by Hitachi, Ltd. and Toyo Tanso Co., Ltd., corporations organized under the laws of Japan, located at 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan, and 5-7-12, Takeshima, Nishiyodogawa-ku, Osaka-shi, Osaka, Japan, respectively, receipt of which is hereby acknowledged, we, the said Hiroshi TAKAYASU, Noboru BABA, Shouichi NAKASHIMA, Tadashi IIZUKA, Toshiaki YAMANAKA, Hiroaki OGURA, Toshiomi FUKUDA and Shinichi OZAKI, do hereby sell and assign to said Hitachi, Ltd. and Toyo Tanso Co., Ltd., their successors and assigns, all our right, title and interest, in and for the United States of America, in and to

BEARINGS FOR CO₂ REFRIGERANT COMPRESSOR USE, COMPRESSOR USING THE SAME, AND APPLICATIONS OF THE SAME

invented by us and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said Hitachi, Ltd. and Toyo Tanso Co., Ltd.,

their successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made;

And we hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said Hitachi, Ltd., and Toyo Tanso Co., Ltd..

Signed on the date(s) indicated aside signatures:

| INVENTOR(S) (発明者フルネームサイン) | Date Signed (署名日) |
|---|----------------------|
| 1) Hiroshi TAKAYASU <u>Hiroshi Takayasu</u> | <u>5/6/2003</u> |
| 2) Noboru BABA <u>Noboru Baba</u> | <u>5/6/2003</u> |
| 3) Shouichi NAKASHIMA <u>Shouichi Nakashima</u> | <u>5/8/2003</u> |
| 4) Tadashi IIZUKA <u>Tadashi Iizuka</u> | <u>5/15/2003</u> |
| 5) Toshiaki YAMANAKA <u>Toshiaki Yamamaka</u> | <u>5/7/2003</u> |
| 6) Hiroaki OGURA <u>Hiroaki Ogura</u> | <u>5/23/2003</u> |
| 7) Toshiomi FUKUDA <u>Toshiomi Fukuda</u> | <u>5/26/2003</u> |
| 8) Shinichi OZAKI <u>Shinichi Ozaki</u> | <u>5/27/2003</u> |
| 9) _____ | _____ |
| 10) _____ | _____ |