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original documents or copy thereof.

To the Honorable Commissioner of Patents

1. Name of conveying party(ies):

Masayuki KAKUDA, Eiji WATANABE, Yoshihide OGAWA,
Minora ISHII, Masao TANI, Munehisa GUNJIMA, Takashi
YAMAMOTO, and Susumu KAWAGUCHI

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

3. Nature of Conveyance:

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

Execution Date: September 10, 1999

2. FILING NAME ADDRESS of receiving party(ies):

Name: Mitsubishi Denki Kabushiki Kaisha

Address: 2-3, Marunouchi 2-chome, Chiyoda-ku,
TOKYO 100-8310 JAPAN

Additional name(s) and 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: N/A

A. Patent Application No.(s)

09/368,566

B. Patent No.(s)

Additional numbers attached? Yes No

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

OBLON, SPIVAK, McCLELLAND, MAIER &
NEUSTADT, P.C.
Attorneys at Law
Fourth Floor
1755 Jefferson Davis Highway
Arlington, Virginia 22202

6. Total applications and patents involved: 1

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

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number: 15-0030

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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.

C. Irvin McClelland

Name of Person Signing

Registration Number: 21,124

Surinder Sachar

Signature

Surinder Sachar
Registration No. 34,423

12/14/99

Date

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PATENT
REEL: 010456 FRAME: 0511

09/368,566

Assignment Of Application

WHEREAS, I (WE) Masayuki KAKUDA, Eiji WATANABE, Yoshihide
OGAWA, Minoru ISHII, Masao TANI, Munehisa GUNJIMA,
Takashi YAMAMOTO, and Susumu KAWAGUCHI all of:
c/o Mitsubishi Denki Kabushiki Kaisha
2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8310
Japan

INSERT NAMES AND RESIDENCE ADDRESSES OF THE INVENTORS:

_____ , respectively,

INSERT TITLE OF INVENTION:

have invented certain new and useful improvements in: ROTARY COMPRESSOR, REFRIGERATING
CYCLE USING THE COMPRESSOR, AND REFRIGERATOR USING THE COMPRESSOR

INSERT DATE INVENTORS SIGNED DECLARATION:

for which an application for Letters Patent was executed on July 27, 1999
 (Application No. 09/368,566 , filed August 5, 1999), and

INSERT NAME AND ADDRESS OF COMPANY OR OTHER ASSIGNEE:

WHEREAS, Mitsubishi Denki Kabushiki Kaisha
 (hereinafter referred to as "ASSIGNEE") having a place of business at: 2-3, Marunouchi
2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefor in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 the power to insert on this assignment any further identification, including the application number and filing date, which 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.

Date: September 10, 1999

Masayuki Kakuda
 (Signature of Inventor) Masayuki KAKUDA

Date: September 10, 1999

Eiji Watanabe
 (Signature of Inventor) Eiji WATANABE

Date: September 10, 1999

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Date: September 10, 1999

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Date: September 10, 1999

Susumu Kawaguchi
 (Signature of Inventor) Susumu KAWAGUCHI

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

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1/85

RECORDED: 12/14/1999

PATENT
 REEL: 010456 FRAME: 0513