

04-23-2002



Packet No.: 500.40101X00

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To the Assistant Commissioner for Patents:

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ents or copy thereof.

1. Name of conveying party(ies): Masao SHIBAYASHI;  
Yasushi IZUNAGA; Katsuaki YANO **4-17-02**  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):  
Name: Hitachi Air Conditioning Systems Co., Ltd.  
Internal Address:  
Street Address: 23-2, Kanda Sudacho 1-chome,  
Chiyoda-ku, Tokyo 101-0041, Japan  
City: Country: Zip:  
Additional name(s) & address(es) attached?  Yes  No

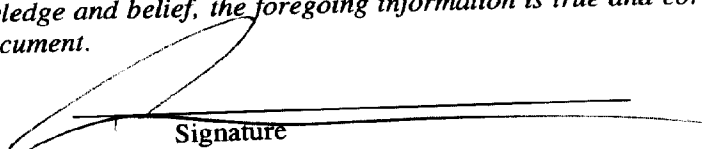
3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_  
Execution Date: March 7, 2002

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) US Serial No.  
09/848,442, filed May 4, 2001  
B. Patent No.(s)  
Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: ANTONELLI, TERRY, STOUT & KRAUS, LLP  
Internal Address:  
Street Address: 1300 North Seventeenth Street  
Suite 1800  
City: Arlington, State: Virginia Zip: 22209

6. Total number of applications and patents involved: 1  
7. Total fee (37 CFR 3.41) .....\$40.00  
 Enclosed  
 Any deficiencies may be charged to deposit account  
 Authorized to be charged to deposit account  
8. Deposit account number: 01-2135  
(Attach duplicate copy of this page if paying by deposit account)

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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.*  
Alan E. Schiavelli  Signature  
Name of Person Signing Date: 4-17-02  
Attorney Registration No. 32,087  
Total number of pages including cover sheet, attachments, and document: \_\_\_\_\_

OMB No. 0651-0011 (exp. 4/94)

04/18/2002 TTRHNI 00000003 09848442  
01 Fee:581 40.00 DP

ASSIGNMENT

For good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, as a below named inventor, I hereby sell and assign to Hitachi Air Conditioning Systems Co., Ltd. of 23-2, Kanda Sudacho 1-chome, Chiyoda-ku, Tokyo, Japan its successors and assigns or other legal representatives all my rights, title and interest, in and for the United States of America, in and to

Scroll Compressor Suitable For A Low Operating Pressure Ratio

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, Serial No. 09/848,442 filed May 4, 2001, 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 Air Conditioning Systems Co., Ltd., its 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 me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the 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 I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said Hitachi Air Conditioning Systems Co., Ltd.

- |  | (Full Name) | (Signature) |
|--|-------------|-------------|
| 1) Date <u>3/7/2002</u> Inventor <u>Masao Shiibayashi</u> <u>Masao Shiibayashi</u><br>Residence <u>Shizuoka-ken, Japan</u> Citizenship <u>Japan</u><br>Post Office Address <u>c/o Shimizu Works, Hitachi Air Conditioning Systems Co., Ltd.</u><br><u>390 Muramatsu, Shimizu-shi, Shizuoka-ken 424-0926, Japan</u> |             |             |
| 2) Date <u>3/7/2002</u> Inventor <u>Yasushi Izunaga</u> <u>Yasushi Izunaga</u><br>Residence <u>Shizuoka-ken, Japan</u> Citizenship <u>Japan</u><br>Post Office Address <u>c/o Shimizu Works, Hitachi Air Conditioning Systems Co., Ltd.</u><br><u>390 Muramatsu, Shimizu-shi, Shizuoka-ken 424-0926, Japan</u>     |             |             |
| 3) Date <u>3/7/2002</u> Inventor <u>Katsuaki Yano</u> <u>Katsuaki Yano</u><br>Residence <u>Shizuoka-ken, Japan</u> Citizenship <u>Japan</u><br>Post Office Address <u>c/o Shimizu Works, Hitachi Air Conditioning Systems Co. Ltd.</u><br><u>390 Muramatsu, Shimizu-shi, Shizuoka-ken 424-0926, Japan</u>          |             |             |
| 4) Date _____ Inventor _____<br>Residence _____ Citizenship _____<br>Post Office Address _____   |             |             |
| 5) Date _____ Inventor _____<br>Residence _____ Citizenship _____<br>Post Office Address _____   |             |             |

Witness(es)

- All) Tomohiro Sato 2) \_\_\_\_\_ 4) \_\_\_\_\_  
1) \_\_\_\_\_ 3) \_\_\_\_\_ 5) \_\_\_\_\_