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(Rev. 6 93)
OMB No. 0651-0011 (exp. 4/94)



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To the Honorable Commissioner of Patents
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and the attached

11-10-98

1. Name of conveying party(ies):
(1) Tetsuya ABE; (2) Seiji HIROKI;
(3) Shuji HAGA

Additional name(s) of conveying party(ies) attached?
 yes no

2. Name and address of receiving party(ies)
Name: ANEST IWATA CORPORATION
Street Address: 9-14, Ebisu-minami 1-chome,
Shibuya-ku, Tokyo, Japan

and

Name: JAPAN ATOMIC ENERGY RESEARCH INSTITUTE
Street Address: Fukoku Seimei Bldg.,
2-2-2, Uchisaiwai-cho,
Chiyoda-ku, Tokyo, Japan

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 yes no

3. Nature of Conveyance:
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Execution Date: (1) 10/28/98; (2) 10/28/98; (3) 11/2/98

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)

B. Patent No(s).

09/123,289

Additional numbers attached? Yes No

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

Evenson, McKeown, Edwards
& Lenahan, P.L.L.C.
1200 G Street, N.W., Suite 700
Washington, D.C. 20005

6. Total number of applications and patents involved: 1

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

Name Paul A. Schnose Reg. No. 39,361

November 10, 1998
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ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto:

ANEST IWATA CORPORATION
9-14, Ebisu-minami 1-chome, Shibuya-ku,
Tokyo, Japan

and

JAPAN ATOMIC ENERGY RESEARCH INSTITUTE
Fukoku Seimei Bldg., 2-2-2, Uchisaiwai-cho,
Chiyoda-ku, Tokyo, Japan

(hereinafter ASSIGNEES) an undivided one-half ($\frac{1}{2}$) share each to all right, title and interest for the United States,, its territories and possessions in and to his invention relating to:

DOUBLE-WRAP DRY SCROLL VACUUM PUMP

as set forth in his United States Patent Application (check one):

executed concurrently herewith,
 executed on
 Serial No. 09/123,289, filed July 28, 1998.


in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEES, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

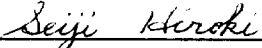
Each of the undersigned hereby authorizes and requests the Commissioner of Patens and Trademarks to issue any and all such Letters patent to said ASSIGNEES, its successors or assigns in accordance herewith;

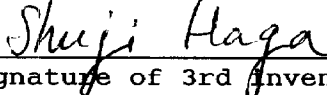
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Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEES, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEES, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEES, its successors, or assigns or to assist said ASSIGNEES, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby grants the firm of **EVENSON, McKEOWN, EDWARDS & LENAHAN, P.L.L.C.**, or any partner thereof, the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and trademark Office for recordation of this Assignment.

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