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RECORDATION 1
PATEN

05-10-1999

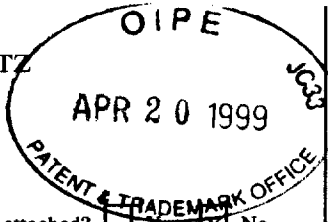


101034348

ments or copy thereof.

To the Honorable Commissioner of Patents and Trademarks:

1. Name of conveying party(ies):
Seiichi ISHIKAWA Hans PITZ
Shizuichi SAKAMOTO
Tsuyoshi YOSHIDA
Saburo MARU
Stefan EMSMANN
Additional name(s) of conveying party(ies) attached? Yes No



2. Name and address of receiving party(ies):
Name: Hitachi, Ltd.
Street Address: 6, Kanda Surugadai 4-chome, Chiyoda-ku
City: Tokyo:
Country: Japan
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
Execution Date: March 30, 1999

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)
09/257,034
February 25, 1999
Additional numbers attached? Yes No

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)

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: VA Zip: 22209

04/21/1999 SARAYA 00000144 09257034
01 FC:581 (40.00 DP)

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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.
Carl I. Brundidge _____ April 20, 1999
Name of Person Signing Signature Date
Attorney Registration No. 29,621
Total number of pages including cover sheet, attachments, and document: 2

ASSIGNMENT

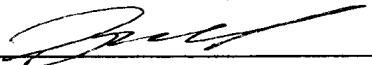

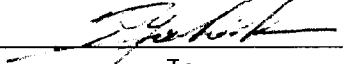

For good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, as a below named inventor, I hereby sell and assign to Hitachi, Ltd. of 6, Kandasurugadai 4-chome, Chiyoda-ku, Tokyo, Japan its successors and assigns or other legal representatives all my rights, title and interest, in and for the United States of America, in and to

Pumping Plant

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. 09/257,034 filed February 25, 1999, 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., 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, Ltd.

- | | (Full Name) | (Signature) |
|---|-------------|---|
| 1) Date <u>March 30, 1999</u> Inventor <u>Seiichi ISHIKAWA</u> | |  |
| Residence <u>Ibaraki-ken, Japan</u> | | Citizenship <u>Japan</u> |
| Post Office Address <u>4016-47, Hitana, Tsuchiura-shi, Ibaraki-ken, Japan</u> | | |
| 2) Date <u>March 30, 1999</u> Inventor <u>Shizuichi SAKAMOTO</u> | |  |
| Residence <u>Ibaraki-ken, Japan</u> | | Citizenship <u>Japan</u> |
| Post Office Address <u>6-25-7, Togashira, Toride-shi, Ibaraki-ken, Japan</u> | | |
| 3) Date <u>March 30, 1999</u> Inventor <u>Tsuyoshi YOSHIDA</u> | |  |
| Residence <u>Ibaraki-ken, Japan</u> | | Citizenship <u>Japan</u> |
| Post Office Address <u>603, Kandatsu-machi, Tsuchiura-shi, Ibaraki-ken, Japan</u> | | |
| 4) Date <u>March 30, 1999</u> Inventor <u>Saburou MARU</u> | |  |
| Residence <u>Ibaraki-ken, Japan</u> | | Citizenship <u>Japan</u> |
| Post Office Address <u>2913-4, Hatori, Minori-machi, Higashiibaraki-gun, Ibaraki-ken, Japan</u> | | |
| 5) Date _____ Inventor _____ | | |
| Residence _____ | | Citizenship _____ |
| Post Office Address _____ | | |

Witness(es)

- All) Tomohiro Sato 2) _____ 4) _____
 1) _____ 3) _____ 5) _____

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, Ltd. of 6, Kandasurugadai 4-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

Pumping Plant

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. 09/257,034 filed February 25, 1999, 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., 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, Ltd.

(Full Name)

(Signature)

- 1) Date March 30, 1999 Inventor Stefan EMSMANN [Signature]
 Residence Niedernhausen, Germany Citizenship Germany
 Post Office Address Niederseelbacher Strasse 2 65527 Niedernhausen, Germany
- 2) Date March 30, 1999 Inventor Hans PITZ [Signature]
 Residence Kronberg im Taunus, Germany Citizenship Germany
 Post Office Address Gablonzer Weg 3 61476 Kronberg im Taunus, Germany
- 3) Date _____ Inventor _____
 Residence _____ Citizenship _____
 Post Office Address _____
- 4) Date _____ Inventor _____
 Residence _____ Citizenship _____
 Post Office Address _____
- 5) Date _____ Inventor _____
 Residence _____ Citizenship _____
 Post Office Address _____

Witness(es)

- All) Jouheo Sato 2) _____ 4) _____
- 1) _____ 3) _____ 5) _____