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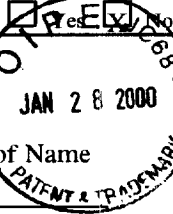
To the Assistant Commissioner for Patents: Pl

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its or copy thereof.

1. Name of conveying party(ies): Yasuhiko Sasaki;  
Yasuhiro Yoshimura; Akira Koide; Ryo Miyake; Naruo  
Watanabe; Takao Terayama; Hiroshi Mitsumaki;  
Yasuhiko Ishida; Tomonari Morioka

Additional name(s) of conveying party(ies) attached?



2. Name and address of receiving party(ies):

Name: Hitachi, Ltd.

Internal Address:

Street Address: 6, Kanda Surugadai 4-chome, Chiyoda-ku  
Tokyo, 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: January 20, 2000

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.  
09/441,230, filed November 16, 1999

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom correspondence  
concerning document should be mailed:

Name: ANTONELLI, TERRY, STOUT &amp; 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

Name of Person Signing

Attorney Registration No. 32,087

Signature

1-28-00

Date

Total number of pages including cover sheet, attachments, and document: 2

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

# ASSIGNMENT

(讓 渡 証)

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by HITACHI, LTD., a corporation organized under the laws of Japan, located at 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan, receipt of which is hereby acknowledged I do hereby sell and assign to said HITACHI, LTD., its successors and assigns, all my right, title and interest, in and for the United States of America, in and to "MICRO PUMP AND METHOD OF PRODUCING THE SAME"

\* U.S. Serial No. 09/441,230 filed on November 16, 1999  
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, 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., 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.

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)	Witnesses (立会人サイン)
1) <u>Yasuhiko Sasaki</u> (Yasuhiko SASAKI)	January 20, 2000	<u>Yuzo Morita</u>
2) <u>Yasuhiro Yoshimura</u> (Yasuhiro YOSHIMURA)	January 20, 2000	<u>Yuzo Morita</u>
3) <u>Akira Koide</u> (Akira KOIDE)	January 20, 2000	<u>Yuzo Morita</u>
4) <u>Ryo Miyake</u> (Ryo MIYAKE)	January 20, 2000	<u>Yuzo Morita</u>
5) <u>Naruo Watanabe</u> (Naruo WATANABE)	January 20, 2000	<u>Yuzo Morita</u>
6) <u>Takao Terayama</u> (Takao TERAYAMA)	January 20, 2000	<u>Yuzo Morita</u>
7) <u>Hiroshi Mitsumaki</u> (Hiroshi MITSUMAKI)	January 20, 2000	<u>Yuzo Morita</u>
8) <u>Yasuhiko Ishida</u> (Yasuhiko ISHIDA)	January 20, 2000	<u>Yuzo Morita</u>
9) <u>Tomonari Morioka</u> (Tomonari MORIOKA)	January 20, 2000	<u>Yuzo Morita</u>
10) _____	_____	_____