

08-07-2003



FORM PTO-1595
(Rev. 10/02)

7-2803

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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Docket No.: 62758-047

102518617

To the Honorable Commissioner for Patents and Trademarks: Please record the attached original documents or copy thereto:

1. Name of Conveying Party(ies):

Makoto ONODERA, Yoshimitsu HIRO

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

3. Nature of Conveyance:

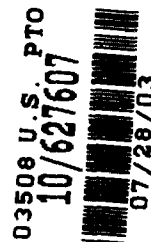
- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: June 17, 2003, June 20, 2003

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

Name: HITACHI, LTD.
Address: 6, Kanda Surugadai 4-chome,
Chiyoda-ku,
Tokyo, Japan

Additional name(s) & address(es) attached? Yes No



4. Application number(s) or patent number(s):

If the document is being filed together with a new application, the execution date of the application is: June 17, 2003, June 20, 2003

A. Patent Application No(s).

10/627607

B. Patent No(s).

Additional numbers attached? Yes No

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

Name: MCDERMOTT, WILL & EMERY
Internal Address:

Street Address: 600 13th Street, N.W.

City: Washington State: D. C. Zip: 20005-3096

6. Total number of 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:

500417

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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.

Keith E. George, 34,111

July 28, 2003

Name and Registration No. of Person Signing

Signature

Date

Total number of pages including cover sheet: 2

OMB No. 0651-0027 (exp. 6/30/2005)

08/06/2003 ECSDPER 00000140 300417 10627607

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PATENT
REEL: 014347 FRAME: 0067

ASSIGNMENT

(譲渡証)

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

ANALYTICAL SHELL-MODEL PRODUCING APPARATUS

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)

1)	<u>Makoto Onodera</u>	<u>6/17/2003</u>
2)	<u>Yoshimitsu Aino</u>	<u>6/20/2003</u>
3)	_____	_____
4)	_____	_____
5)	_____	_____
6)	_____	_____
7)	_____	_____
8)	_____	_____
9)	_____	_____
10)	_____	_____