

05-21-1999

mkd 5-6-99

Docket No.: 520.37195X00

FORM PTO-1595
1-31-92



101044160

FORM COVER SHEET
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy

1. Name of conveying party(ies):
Noriaki YAMAMOTO, Yukinori TANEDA, Hirohisa YAMAMURA, Akio YASUKAWA, Osamu SUZUKI, Tatsuya SHIGEMURA

2. Name and address of receiving party(ies):
Name: Hitachi, Ltd.
Street Address: 6, Kanda Surugadai 4-chome, Chiyoda-ku

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

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: April 22,26, 1999

City: Tokyo:
Country: Japan

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

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: April 22, 26, 1999

A. Patent Application No.(s)
B. Patent No.(s)
09 305 448

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: VA 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.

Melvin Kraus _____
Name of Person Signing
Attorney Registration No. 22,466
Total number of pages including cover sheet, attachments, and document: 2

Melvin Kraus _____
Signature

May 6, 1999 _____
Date

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

WIRE BONDING METHOD AND APPARATUS, AND SEMICONDUCTOR DEVICE

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>Noriaki Yamamoto</u> Noriaki YAMAMOTO	<u>April 22, 1999</u>	<u>Yasuji Moriyama</u>
2) <u>Yukinori Taneda</u> Yukinori TANEDA	<u>April 22, 1999</u>	<u>Yasuji Moriyama</u>
3) <u>Hirohisa Yamamura</u> Hirohisa YAMAMURA	<u>April 26, 1999</u>	<u>Yasuji Moriyama</u>
4) <u>Akio Yasukawa</u> Akio YASUKAWA	<u>April 26, 1999</u>	<u>Yasuji Moriyama</u>
5) <u>Osamu Suzuki</u> Osamu SUZUKI	<u>April 26, 1999</u>	<u>Yasuji Moriyama</u>
6) <u>Tatsuya Shigemura</u> Tatsuya SHIGEMURA	<u>April 26, 1999</u>	<u>Yasuji Moriyama</u>
7) _____	_____	_____
8) _____	_____	_____
9) _____	_____	_____
10) _____	_____	_____