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PT08 Rec'd PCT/PTO 25 FEB 2003

102439818

2-25-03

1. Name of Conveying parties:

KARIYA, Takashi
NEHIKAWA, Masaya

2. Name and address of receiving party(ies)

Name: Ibiden Co., Ltd.

Internal Address:

Street Address: 1, Kanda-cho 2-chome, Ogaki-shi

Gifu 503-0917, JAPAN

Additional name(s) and address(es) attached? Yes X No

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

3. Nature of conveyance:

X Assignment

Merger

Security Agreement

Change of Name

Other

Execution Date:

September 3, 2002

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

10344892

If this document is being filed together with a new application, the execution date of the application is: September 3, 2002

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached: Yes X No

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

Name: Bruce H. Bernstein

Internal Address: P23345

6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41) \$ 40.00

X Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

19-0089

(Attach duplicate copy of this page if paying by deposit account)

Street Address: GREENBLUM & BERNSTEIN, P.L.C.

1950 Roland Clarke Place

City: Reston

State: VA

ZIP: 20191

DO NOT USE THIS SPACE

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.

Bruce H. Bernstein, Reg. No. 29,027

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments and document: 3

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231PATENT
REEL: 014016 FRAME: 0451

ASSIGNMENT

WHEREAS, **Takashi KARIYA**, a citizen of JAPAN, whose post office address is c/o Ividen Co., Ltd., 1-1, Kitakata, Ibigawa-cho, Ibi-gun, Gifu 501-0601, Japan, and **Masaya NISHIKAWA**, a citizen of Japan, whose post office address is c/o Ividen Co., Ltd., 1-1, Kitakata, Ibigawa-cho, Ibi-gun, Gifu 501-0601, Japan, hereinafter referred to as the ASSIGNORS, have invented a certain improvement relating to

**Semiconductor Chip Mounting Wiring Board, Manufacturing Method for Same, and
Semiconductor Module**

for which they have jointly executed an application for Letters Patent of the United States to be filed in the United States Patent and Trademark Office.

If this Assignment is filed after the filing date of the above-identified application, the undersigned hereby authorize and request any one of the attorneys of record in this application including Neil F. Greenblum, Reg. No. 28,394, Bruce H. Bernstein, Reg. No. 29,027, Arnold Turk, Reg. No. 33,094, James L. Roland, Reg. No. 32,674, Stephen M. Roylance, Reg. No. 31,296, Leslie J. Paperner, Reg. No. 33,329, William Pieprz, Reg. No. 33,630, and William E. Lyddane, Reg. No. 41,568, of the firm Greenblum & Bernstein, P.L.C., whose address is 1941 Roland Clarke Place, Reston, Virginia 20191, to insert here in parenthesis (Application No. _____, filed _____) the filing date and application number of said application when known.

AND WHEREAS, **Ividen Co., Ltd.**, a corporation organized and existing under the laws of the State of Japan, whose post-office address is 1, Kanda-cho 2-chome, Ogaki-shi, Gifu 503-0917, Japan, hereinafter known as the ASSIGNEE, is desirous of acquiring the entire right, title and interest for the United States in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, and prolongations thereof.

NOW, THIS WITNESSETH that for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt whereof is hereby acknowledged, said ASSIGNORS hereby assign, sell and transfer to said ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application, for the United States including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, said ASSIGNEE and its assigns and legal representatives to have, hold, exercise and enjoy the said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges, and advantages in any ways arising from or pertaining thereto, for and during the term or terms of any

and all such Letters Patent when granted, including any and all renewals, reissues, and prolongations thereof, for the use and benefit of said ASSIGNEE and its assigns and legal representatives in as ample and beneficial a manner to all intents and purposes as the said ASSIGNORS might or could have held and enjoyed the same, if this assignment had not been made.

AND said ASSIGNORS hereby agree to execute all papers necessary to file applications in the United States for said invention and to assign the same to said ASSIGNEE, or any assignee acquiring title to said invention, and to execute any other papers that may be needed in connection with filing said application and securing Letters Patent thereon.

AND said ASSIGNORS authorize and request the Commissioner of Patents to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said ASSIGNEE, its assigns and legal representatives, in accordance herewith.

IN TESTIMONY WHEREOF, this assignment is executed by said ASSIGNORS, on the respective date(s) indicated below.

Witnessed by:

Tomohiro Nishikawa
Tomohiro NISHIKAWA Date 2002/9/3

T. kariya 3-Sep-2002
Takashi KARIYA Date

Takeo Niwa
Takeo NIWA Date 2002/9/3

Witnessed by:

Tomohiro Nishikawa
Tomohiro NISHIKAWA Date 2002/9/3

M. Nishikawa 3-Sep-2002
Masaya NISHIKAWA Date

Takeo Niwa
Takeo NIWA Date 2002/9/3