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OMB No. 0651-0027 (exp. 5/31/2002) U.S. DEPARTMENT OF COMMERCE

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File No. FP 526 US/PCT(DIV1)

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

- 1) Jie Xu
- 2) Kenji Suzuki

12-3-02

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

2. Name and address of receiving party(ies)

Name: The Furukawa Electric Co., Ltd.

Street Address: 6-1, Marunouchi 2-chome Chiyoda-ku

City: Tokyo

Postal Code: 100-8322

Country: Japan

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

3. Nature of conveyance:

- | | |
|--|----------------|
| <input checked="" type="checkbox"/> Assignment | Merger |
| <input type="checkbox"/> Security Agreement | Change of Name |
| <input type="checkbox"/> Other: | |

Execution Date: September 17, 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): 09/634,963 filed August 08, 2000

B. Patent No.(s):

Additional numbers attached? Yes No

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

Name: Lacasse & Associates
 Street Address: 1725 Duke Street, Suite 650
 City: Alexandria
 State: Virginia
 Zip Code: 22314
 Country: U.S.A.

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$40.00
Authorized to be charged to deposit account

8. Deposit account number: 50-1142

(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.

Randy W. Lacasse, Reg. No. 34,368

(Name of Person Signing)

Randy W. Lacasse

(Signature)

12/3/02

(Date)

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

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

12/10/2002 LHWELLER 00000104 501142 09634963

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PATENT REEL: 013551 FRAME: 0685

ASSIGNMENT

Whereas, **Jie XU and Kenji SUZUKI**, citizens of Japan, whose full post office addresses are **c/o 6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-0005 Japan** and **c/o 6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-0005 Japan**, respectively, have made an invention as described in the application for Letters Patent in the United States of America entitled

SEMICONDUCTOR WAFER CLEAVING METHOD AND APPARATUS

filed under international No. **PCT/JP99/01188** on **11 March 1999**.

And WHEREAS **The Furukawa Electric Co., Ltd.**, whose full post office address is **6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-0005 Japan**, is desirous of acquiring the entire interest therein;

NOW, THEREFORE, in consideration of **ONE DOLLAR (\$1.00)** and other good and valuable consideration, the receipt of which is hereby acknowledged, we, by these presents do sell, assign and transfer unto **The Furukawa Electric Co., Ltd.**, the full and exclusive right, for the territory of the United States Of America, and all other countries, in and to the said invention, and we hereby request the Commissioner of Patents and Trademarks to issue said Letters Patents to **The Furukawa Electric Co., Ltd.**, as the assignee, for the sole use and behoof of **The Furukawa Electric Co., Ltd.**, and its legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by myself had this assignment and sale not been made.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made

are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such wilful false statements may jeopardize the validity of the application or any patent issued thereon.

Executed this 17 day of September, 1999 .
at Chiba, Japan.

Jie Xu
Jie XU

Declaration by Witness

I, Elaine Katsuo, whose full post office address is 1-8-9 Uragaoka, Yokosuka-shi Kanagawa, Japan say:

That I was personally present and did see Jie XU, who is personally known to me, duly sign and execute the above Assignment.

Elaine Katsuo
Signature of Witness

Executed this ___ day of September 17, 1999.
at Chiba, Japan.

Kenji Suzuki
Kenji SUZUKI

Declaration by Witness

I, Elaine Katsuo, whose full post office address is 1-8-9 Uragaoka, Yokosuka-shi Kanagawa Japan say:

That I was personally present and did see Kenji SUZUKI, who is personally known to me, duly sign and execute the above Assignment.

Elaine Katsuo
Signature of Witness