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To the Hon. Commissioner of Patents and Trademarks,
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Docket No. **JG-SU-5036 / 500577.20022**

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Nature of Conveyance:

☒ Assignment ☐ Change of Name
☐ Merger ☐ Security Agreement
☐ Other:

EXECUTION DATE: **November 28, 2000, respectfully**

Name of conveying Party(ies):

Kounosuke KITAMURA
Naoki ONO

Execution Date (M / D / Y):

November 28, 2000**November 28, 2000**

11000 U.S. PRO
 09/793862
 02/26/01

Name of receiving Party(ies):

Mitsubishi Materials Silicon Corporation

Address of receiving Party(ies):

5-1, Ohtemachi 1-chome, Chiyoda-ku, Tokyo 100-0004 JAPAN

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative designation is attached: ☐ YES ☐ NO
 (DESIGNATIONS MUST BE A SEPARATE DOCUMENT FROM ASSIGNMENT)

Correspondence and/or Domestic Representative Name, Address and Phone No.:

Jules E. Goldberg, Esq., Reed Smith LLP, 375 Park Avenue, New York, NY 10152 [Tel. No. (212)521-5400]

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Application number(s) or Patent number(s):

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A) Application number(s):

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If this document is being filed together with a New Application, enter the date the patent application was signed by the first named executing inventor: (M/D/Y) **November 28, 2000**

Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned

Number of Properties

Enter the total number of properties involved: **[1]**Fee Amount Fee Amount for Properties Listed (37 CFR 3.41): **\$ 40.00**

Method of payment:

☒ Enclosed (with filing fee of \$ 750.00)☐ Deposit Account

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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. Charges to deposit account are authorized, as indicated herein.

Jules E. GoldbergReg. No.: **24,408**

Name of Person Signing

Signature

Date: **February 26, 2001**EXPRESS MAIL No.: **EL 758 808 529 US** Deposited: **February 26, 2001**

I hereby certify that this correspondence is being deposited with the United States Postal Service Express mail under 37 CFR 1.10 on the date indicated above and is addressed to: **Box Assignment, Commissioner for Patents and Trademarks, Washington, DC 20231.**

/ **Ruth Montalvo**

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PATENT
REEL: 011578 FRAME: 0144

**ASSIGNMENT - PATENT APPLICATION
UNITED STATES OF AMERICA**

Whereas, I/We, Kounosuke Kitamura and Naoki Ono

of c/o SILICON RESEARCH CENTER, MITSUBISHI MATERIALS CORPORATION, 1-297,
Kitabukuro-cho, Omiya-shi, Saitama 330-0835 Japan

(hereafter "Assignor") have new and useful improvements in METHOD FOR SIMULATING THE SHAPE OF THE
SOLID-LIQUID INTERFACE BETWEEN A SINGLE CRYSTAL AND A MOLTEN LIQUID, AND THE
DISTRIBUTION OF POINT DEFECTS OF THE SINGLE CRYSTAL

which application for Letters Patent in the United States of America ☒ is about to be filed. ☐ has been filed.

And Whereas, MITSUBISHI MATERIALS SILICON CORPORATION
of 5-1, Ohtemachi 1-chome, Chiyoda-ku, Tokyo 100-0004 Japan
(hereinafter "Assignee") is/are desirous of acquiring an interest therein and in the Letters Patent to be obtained therefor:

Now, therefore, be it known by all whom it may concern, that for good and valuable consideration (the sufficiency of which is hereby acknowledged) the Assignor has assigned, transferred and set over, and by these presents does assign, transfer and set over unto the said Assignee for the territory of the United States of America, the full and exclusive right, title, and interest in and to the said application and the invention embodied therein, as fully set forth and described in the specification.

A. prepared and executed on even date herewith

B. filed in the U.S. Patent and Trademark Office under Serial No. _____

on _____ including any division, continuation, substitute or renewal application thereof; said invention, application and Letters Patent to be held and enjoyed by the said Assignee to the full end of the term for which said Letters Patent is granted, as fully and entirely as the same would have been held by the Assignor had this assignment and transfer not been made.

Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent for said invention to said Assignee.

In testimony whereof, the Assignor has hereunto set his hand this 28th day of
November 20 00.

WITNESS:

INVENTOR(S):

Kounosuke Kitamura / Konosuke Kitamura
(Name of Assignor) (Signature of Assignor)

Naoki Ono / Naoki Ono
(Name of Assignor) (Signature of Assignor)

/
(Name of Assignor) (Signature of Assignor)

/
(Name of Assignor) (Signature of Assignor)

/
(Name of Assignor) (Signature of Assignor)

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