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DEPARTMENT OF COMMERCE

Patent and Trademark Office
Docket No. 474082001800

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

1. Name of conveying party(ies):

Takayuki KUBO
Hiroshi ASANO
Fumio KAWAHIGASHI and
Akiro TSUJINO

06/24/02

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

SUMITOMO MITSUBISHI SILICON CORPORATION
2-1, Shibaura 1-chome, Minato-ku
Toyko 105-0023 JAPAN

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

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

3. Nature of conveyance:

- Assignment
- Security Agreement
- Other:
- Merger
- Change of Name

Execution Date: June 3, 2002, June 7, 2002, June 7, 2002 and June 7, 2002

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)

B. Patent No.(s)

10/105.634

Additional numbers attached? Yes No

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

Barry E. Bretschneider
Morrison & Foerster LLP
2000 Pennsylvania Avenue, N.W.
Washington, D.C. 20006-1888

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. § 3.41): \$40.00

- Enclosed
- Authorized to be charged to deposit account, referencing Attorney Docket **474082001800**

8. Deposit account number: **03-1952**

The Commissioner is hereby authorized to charge any fees under 37 C.F.R. § 1.21 that may be required by this paper, or to credit any overpayment to Deposit Account No. 03-1952.

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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.

Name: Kevin R. Spivak
Registration No: 43,148

Kevin R. Spivak
Signature

June 24, 2002
Date

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

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Mail documents to be recorded with required cover sheet information to:
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dc-321774

PATENT
REEL: 013025 FRAME: 0043

MORRISON & FOERSTER LLP

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assign(s), transfer(s) and set(s) over to:

**SUMITOMO MITSUBISHI SILICON CORPORATION
2-1, SHIBAURA 1-CHOME
MINATO-KU, TOKYO
105-0023 JAPAN**

(hereinafter designated as the "ASSIGNEE"), its successors and assigns, the entire right, title, and interest for the United States in the invention, and all applications for patent and any Letters Patent which may be granted therefor, including said application, and all United States Letters Patent which may be granted thereof, and all divisions, reissues, continuations and extensions thereof, the said interest being the entire ownership of said Letters Patent when granted to be held by said ASSIGNEE, its successors, assigns or their 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 and enjoyed by Assignor(s) if this assignment had not been made, the application being known by the title:

CRYSTAL GROWING APPARATUS

Attorney Docket No.: 474082001800

for which the undersigned has/have executed an application for patent in the United States of America on the same day herewith. Where this instrument is not filed concurrently with the application, the following identifying information may be added after execution:

Serial No.: 10/105,634

Filing Date: March 26, 2002

1. The undersigned hereby agree(s) to sign and execute any further documents and instruments which may be necessary, lawful and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reexamination or reissue application or in any amendments, extension of interference proceedings, or otherwise to secure the title thereto to the ASSIGNEE.

2. The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property of similar agreements.

3. The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the ASSIGNEE.

4. The undersigned hereby authorize(s) and request(s) the Commissioner of Patents in the United States to issue any and all Letters Patent resulting from said application or any division or divisions or continuing applications thereof to the said ASSIGNEE.

5. The undersigned hereby grant(s) to the firm of Morrison & Foerster LLP the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREBY, executed by the undersigned on the date(s) opposite the undersigned name(s).

06/03/2002
Date

Takayuki Kubo
Typed Name: Takayuki KUBO

06/07/2002
Date

Hiroshi Asano
Typed Name: ~~Fumio KAWAHIGASHI~~
Hiroshi ASANO

06/07/2002
Date

Fumio Kawahigashi
Typed Name: ~~Hiroshi ASANO~~
Fumio KAWAHIGASHI

06/07/2002
Date

Akira Tsujino
Typed Name: Akira TSUJINO

This assignment may be signed before a U.S. Notary Public or before at least two witnesses who also sign here:

June - 05 - 2002
Date

Shin. Miki
Typed Name: Shinichiro. Miki

June - 05 - 2002
Date

Koji Kato
Typed Name: KOJI KATO