

03-02-2000



U.S. 1

101258494

ICE

Case Docket No. 981076

U.S. DEPARTMENT OF COMMERCE

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PATENTS ONLY

2-2-2000

To the Assistant Commissioner for Patents

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

**Tsuyoshi SOHARA**

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

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

Name: **FUJITSU LIMITED**

Street Address: **1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi,  
Kanagawa 211-8588**

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

3. Nature of conveyance: Assignment

Execution Date: February 25, 1999

4. Title: **SEMICONDUCTOR DEVICE INCLUDING A FLIP-CHIP SUBSTRATE**

5. 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)

Additional numbers attached? Yes \_\_\_ No XX

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

Name: ARMSTRONG, WESTERMAN, HATTORI,  
MCLELAND & NAUGHTON  
1725 K Street, N.W., Suite 1000  
Washington, D.C. 20006

7. Total number of applications and patents involved: 1

8. Total fee (37 CFR 3.41). . . . . \$40.00

XX Enclosed

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9. Deposit Account No.: 01-2340  
(Two copies of this paper are attached.)

10. 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.

John P. Kong  
Name of Person Signing

  
Signature

February 2, 2000  
Date

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

Rev. 2/97

2.25.99

U.S. PATENT AND TRADEMARK OFFICE

03-01-1999

Case Docket No. 981076

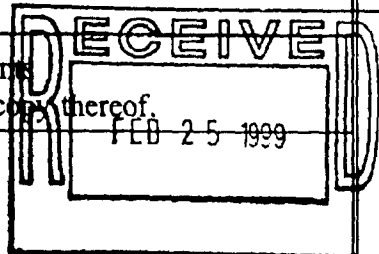
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DEPARTMENT OF COMMERCE  
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**Tsuyoshi SOHARA**

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

Name: **FUJITSU LIMITED**

Street Address: **1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi,  
Kanagawa 211-8588, JAPAN**

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

3. Nature of conveyance: Assignment

Execution Date: September 24, 1998

4. Title: **SEMICONDUCTOR DEVICE INCLUDING A FLIP-CHIP SUBSTRATE**

5. 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. **09/162,770**, filed September 30, 1998 B. Patent No.(s)

Additional numbers attached? Yes \_\_\_ No XX

02/26/1999 DNGUYEN 00000278 09162770

01 FC:581

40.00 OP

PATENT  
REEL: 9826 FRAME: 0103

PATENT  
REEL: 010418 FRAME: 0555

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

Name: ARMSTRONG, WESTERMAN, HATTORI,  
MCLELAND & NAUGHTON  
1725 K Street, N.W., Suite 1000  
Washington, D.C. 20006

7. Total number of applications and patents involved: 1

8. Total fee (37 CFR 3.41). . . . . \$40.00

XX Enclosed

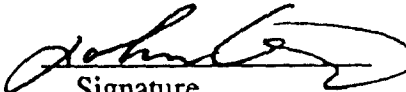
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9. Deposit Account No.: 01-2340  
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John P. Kong  
Name of Person Signing

  
Signature

February 25, 1999  
Date

40,054  
Registration No.

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

Rev. 2/97

## U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

(Insert ASSIGNEE's  
Name(s) Address(es))

FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi,  
Kanagawa, 211-8588 Japan

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest in the invention entitled

(Title of Invention)

SEMICONDUCTOR DEVICE INCLUDING A FLIP-CHIP SUBSTRATE

(If the assignment is  
being filed after the filing  
of the application, this  
section must be  
completed)

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

Filed on September 30, 1998, Serial No. 09/162,770

(Armstrong, Westerman, Hattori, McLehland & Naughton is hereby authorized to insert the series code, serial number and/or filing date herein, when known)

and all Letters Patent of the United States to be obtained therefor on said application or any continuation, divisional, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with the application and any continuation, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

Tsuyoshi Sahara  
(SIGNATURE)

Tsuyoshi Sahara  
(TYPE NAME)

Feb. 25, 1999  
(DATE)

\_\_\_\_\_  
(SIGNATURE)

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(TYPE NAME)

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(DATE)

NO LEGALIZATION REQUIRED

RECORDED: 09/30/1998

PATENT  
REEL: 9826 FRAME: 0105

RECORDED: 02/02/2000

PATENT  
REEL: 010418 FRAME: 0557