

03-08-2002

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TO THE HONORABLE DIRECTOR OF THE
ORIGINAL DOCUMENTS OR COPY THEREOF

PATENT AND TRADEMARK OFFICE. PLEASE RECORD THE ATTACHED

1. Name of conveying party(ies):

- (a) Hiroshi Amano
(b) Tetsuya Takeuchi
(c) Isamu Akasaki

Additional name(s) of conveying party(ies) attached?

☐ Yes☒ No

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

Name: Hewlett-Packard Company

Street Address: 3000 Hanover Street, MS 20BQ

City: Palo Alto State: California Zip: 94304-1112

Country: USA

3. Nature of Conveyance:

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

Execution Date: (a) 7/31/00; (b) 9/11/00; (c) 7/29/00

Name and address of receiving party(ies):

Name:

Street Address:

City:

State:

Zip:

Country:

Additional name(s) & address(es) attached?

☐ Yes☒ No

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: N/A

A. Patent Application No.(s) - 09/562,978

Title: Semiconductor Substrate And Method For Making
The Same

B. Patent No.(s)

N/A

Additional numbers attached?



Yes



No

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

Name: Rachel V. Leiterman

Internal Address: SKJERVEN MORRILL MacPHERSON LLP

Street Address: 25 METRO DRIVE, SUITE 700

City: SAN JOSE State: CA Zip: 95110

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 19-2386

Charge Deposit Account 19-2386 for any additional fees
required for this conveyance and credit deposit account
19-2386 any amounts overpaid

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8. 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.

Rachel V. Leiterman 46,868
Name of Person Signing

R. Leiterman
Signature

2/5/2002
Date

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

Express Mail Label No.: EL 937 079 961 US

PATENT
REEL: 012635 FRAME: 0685

ASSIGNMENT OF PATENT APPLICATION

I/we, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD COMPANY, a Delaware corporation having its principal place of business in Palo Alto, California, (hereinafter HP), for good and valuable consideration, receipt of which is hereby acknowledged, and do hereby sell, assign and transfer to HP, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under an application for Letters Patent of the United States entitled:

SEMICONDUCTOR SUBSTRATE AND METHOD FOR MAKING THE SAME

Filing date: April 27, 2000

Serial No.: 09/562,978

and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for said Letters Patent, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor; and any reissues, or reexaminations, or extensions of said Letters Patent.

I/we additionally authorize HP to file applications in my/our name for Letters Patent in any country, to be held and enjoyed by HP, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, sale and transfer not been made;

AND I/we hereby covenant that I/we have full right to convey the entire interest herein assigned, and that I/we have not executed and will not execute any agreement in conflict herewith, and I/we further covenant and agree that I/we, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Letters Patent, to HP, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to HP, or to its nominees, all known facts respecting said invention(s) or improvement(s), said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid HP, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said inventions(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by HP;

AND I/we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to HP, as assignee of the entire right, title and interest, any and all Letters Patent for said Invention(s) or improvement(s), including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

I/we further authorize and direct HP attorneys to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.

IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):

Hiroshi Amano
Inventor's Signature (Seal)

Date Assignment Signed: July 31, 2000

Inventor's Typed Name: Hiroshi Amano

Date Application Signed: July 31, 2000

Witness's Signature (Seal)

Date of Witness's Signature: _____

Witness's Typed Name: _____

(Use Page Two For Additional Inventor(s) Signature(s))

Page 1 of 2

IN WITNESS WHEREOF, I/we hereunto set my/out hand(s) and seal(s):

Tetsuya Takeuchi Date Assignment Signed: 9/11/2000
Inventor's Signature (Seal)

Inventor's Typed Name: Tetsuya Takeuchi Date Application Signed: 9/11/2000

Linda C. Blum Date of Witness's Signature: 9/11/2000
Witness's Signature (Seal)

Witness's Typed Name: _____

Isamu Akasaki Date Assignment Signed: 7/29/00
Inventor's Signature (Seal)

Inventor's Typed Name: Isamu Akasaki Date Application Signed: July 29, 2000

_____ Date of Witness's Signature: _____
Witness's Signature (Seal)

Witness's Typed Name: _____

_____ Date Assignment Signed: _____
Inventor's Signature (Seal)

Inventor's Typed Name: _____ Date Application Signed: _____

_____ Date of Witness's Signature: _____
Witness's Signature (Seal)

Witness's Typed Name: _____

_____ Date Assignment Signed: _____
Inventor's Signature (Seal)

Inventor's Typed Name: _____ Date Application Signed: _____

_____ Date of Witness's Signature: _____
Witness's Signature (Seal)

Witness's Typed Name: _____