



RECOF

12-15-2004



102901476

002531.00003

Form PTO-1592 (modified)

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

1. Name of conveying party or parties:

- 1. Satoshi KOMOTO
- 2. Hajime OKUDA
- 3. Hirokazu TANAKA

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

2. Name and address of receiving party or parties:

Kabushiki Kaisha Toshiba
 1-1 Shibaura 1-chome,
 Minato-ku, Tokyo 105-8001
 JAPAN

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

3. Nature of conveyance:

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

Execution Date: October 7, 2004

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 Number(s):

10/961, 409

Additional number(s) attached? Yes No

B. Patent Number(s):

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

Joseph M. Potenza
 Banner & Witcoff, Ltd.
 1001 G Street, N.W., 11th Floor
 Washington, D.C. 20001-4597

6. Total number of applications and patents involved: 1

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

- Enclosed
- Authorized to be charged to deposit account*
- Please charge or credit our deposit account for any additional or refunded fees associated with recording this assignment

8. Deposit Account No.:

19-0733

Do Not Use This Space

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.

Gary D. Fedorochko, Reg. No. 35,509

Name of Person Signing

Gary D. Fedorochko
Signature

December 10, 2004

Date

12/15/2004 EDOOPER 00000101 190733 10961409

01 FC-8021 40.00 20

Total number of pages including cover sheet: 3

ASSIGNMENT

In consideration of value received, I, having a mailing address at c/o Intellectual Property Division, Toshiba Corporation, 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105-8001 Japan and a residence as stated below next to my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application of United States patent entitled:

SEMICONDUCTOR APPARATUS

said application having been filed on 10/12/2004 and assigned U.S. application serial no. 10/961,409 (if not filed herewith), sell and assign to KABUSHIKI KAISHA TOSHIBA, a corporation of Japan, having a business address at 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001 Japan, its successors, assigns or nominees, hereinafter referred to as "Assignee," my entire right, title and interest in and to said invention as disclosed, shown and described in said application for United States patent: (check one)

- executed concurrently herewith;
 executed separately herefrom on _____;

an in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or law relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all countries.

I hereby grant the following law firm 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 U.S. Patent and Trademark Office for recordation of this document: Banner & Witcoff, LTD., 11th Floor, 1001 G Street, N.W., Washington, DC 20001-4597.

ASSIGNMENT

Inventor Name	Satoshi KOMOTO	Residence	25-19, Shimoigusa 4-chome, Suginami-ku, Tokyo 167-0022 Japan
Signature	<i>Satoshi Komoto</i>	Date	October 7, 2004

Inventor Name	Hajime OKUDA	Residence	K403, 18-4, Fujizuka-cho, Hodogaya-ku, Yokohama-shi, Kanagawa 240-0031 Japan
Signature	<i>Hajime Okuda</i>	Date	October 7, 2004

Inventor Name	Hirokazu TANAKA	Residence	21-7, Katsuradainaka, Sakae-ku, Yokohama-shi, Kanagawa 247-0034 Japan
Signature	<i>Hirokazu Tanaka</i>	Date	October 7, 2004

Inventor Name		Residence	
Signature		Date	

Inventor Name		Residence	
Signature		Date	

Inventor Name		Residence	
Signature		Date	

Inventor Name		Residence	
Signature		Date	

Inventor Name		Residence	
---------------	--	-----------	--