



10-25-2006



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Form PTO-1502 (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. Asami SAITO
2. Satoshi SAKURAI

Additional Names of conveying party or parties attached?

☐ Yes ☒ No

## 2. Name and address of receiving party or parties:

Kabushiki Kaisha Toshiba  
1-1, Shibauro 1-chome  
Minato-ku, Tokyo  
JAPAN

Additional Name(s) and address(es) attached? ☐ Yes ☒ No

## 3. Nature of Conveyance:

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

Execution Date: September 29, 2006

## 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 Number(s):

11/515,384

Additional Numbers attached? ☐ Yes ☒ No

## B. Patent Number(s):

N/A

## 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., Suite 1100  
Washington, D.C. 20001-4597

## 6. Total Number of Applications and patents involved:

## 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

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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.*

Christopher R. Glembocki, Reg. No. 38,800

Name of Person Signing

/Christopher R. Glembocki/

Signature

October 19, 2006

Date

Total Number of Pages including Cover Sheet: 2

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PATENT

REEL: 018443 FRAME: 0355

## ASSIGNMENT

WHEREAS, Asami SAITO and Satoshi SAKURAI

hereinafter (collectively) referred to as the Assignor(s), have invented certain new and useful improvements in

**RESISTOR-STRING DIGITAL/ANALOG CONVERTER CIRCUIT AND**  
**SEMICONDUCTOR DEVICE INCLUDING THE SAME CIRCUIT**

for which an application for Letters Patent of the United States has been prepared, the Declaration for said application executed on even date herewith unless specified below:

☒ said application having been filed in the United States Patent and Trademark Office on September 5, 2006 and accorded Serial Number 11/515384, and was amended on (if applicable); and/or

☐ said application having been filed under the Patent Cooperation Treaty on \_\_\_\_\_ and accorded Application No. \_\_\_\_\_, the United States of America being designated;

WHEREAS, Kabushiki Kaisha Toshiba of  
1-1, Shibaura 1-chome, Minato-ku, Tokyo, Japan

hereinafter referred to as the Assignee(s), is desirous of acquiring the entire right, title and interest in and to the aforesaid invention and in and to any Letters Patent of the United States which may be granted therefore;

NOW THEREFORE, for good and valuable consideration the Assignor(s) by these presents do sell, assign, and transfer unto the Assignee(s), its successors, legal representatives and assigns, the full and exclusive right to the invention as described in said application, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefore in the United States and its territorial possessions and in and to any and all divisions, reissues, continuations and extensions thereof;

AND said Assignor(s) authorizes and requests the Commissioner of Patents and Trademarks to issue all said Letters Patent to said Assignee;

AND said Assignor(s) warrant and 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 instrument or assignment in conflict herewith;

AND said Assignor(s) agree to communicate to said Assignee(s) or its representatives any facts known to me/us respecting said invention, to execute all divisional, continuation, reissue and foreign applications, sign all lawful documents and make all rightful oaths relating to said invention, and to testify in any judicial or administrative proceeding and generally do everything possible to aid the said Assignee to obtain and enforce said Letters Patent in the United States when requested so to do by said Assignee.

**Attorney Docket No.**

**AND** the undersigned hereby grant(s) the firm of Banner & Witcoff, LTD 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 WHEREOF**, I/We have hereunto set my/our hand and seal.

Date: September 29, 2006

Signature: Asami Saito  
Name: Asami SAITO

Date: September 29, 2006

Signature: Satoshi Sakurai  
Name: Satoshi SAKURAI

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_