

7-25-06

07-28-2006

Docket No.: SEC.1649

FORM PTO-1595 (Modified)  
(Rev. 03-01)  
OMB No. 06-01-0027 (exp. 5/31/2002)  
P08A/REV03

ET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

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## 1. Name of conveying party(ies):

Jin-Yub LEE

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

## 3. Nature of conveyance:

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

Execution Date: July 11, 2006

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

Name: Samsung Electronics Co., Ltd.

Address: 416, Maetan-dong, Yeongtong-gu,

Suwon-si,

City: Gyeonggi-do

State/Prov.:

Country: Republic of Korea

ZIP:

Additional name(s) &amp; address(es)

☐ Yes☒ No

## 4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: July 11, 2006

Patent Application No.

Filing date

B. Patent No.(s)

NEW

July 25, 2006

07/27/2006 DBYRNE 00000135 500238 11492151

01 FC:8021

40.00 DA

Additional numbers

☐ Yes ☒ No

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

Name: B. Y. Mathis

Registration No. 44,907

Address: Volentine Francos &amp; Whitt, P.L.L.C.

11951 Freedom Drive, Suite 1260

City: Reston

State/Prov.: VA

Country: U.S.A.

ZIP: 20190

## 6. Total number of applications and patents involved:

1

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

☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☒ Authorized to be charged to deposit account

## 8. Deposit account number:

50-0238

(Attach duplicate copy of this page if paying by deposit account)

## 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.

B. Y. Mathis

Name of Person Signing

Signature

July 25, 2006

Date

4

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PATENT

REEL: 018128 FRAME: 0103

## ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned

**Insert  
Name(s) of  
Inventor(s)**

- |                       |           |
|-----------------------|-----------|
| 1. <u>Jin-Yub LEE</u> | 7. _____  |
| 2. _____              | 8. _____  |
| 3. _____              | 9. _____  |
| 4. _____              | 10. _____ |
| 5. _____              | 11. _____ |
| 6. _____              | 12. _____ |

**Insert  
Name(s) of  
Assignee(s) &**

the undersigned hereby sell(s) and assign(s) to

SAMSUNG ELECTRONICS CO., LTD.

416, Maetan-dong, Yeongtong-gu,

**Address(es)**

of Suwon-si, Gyeonggi-do, Republic of Korea

(hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as

**Title of  
Invention**

FLASH MEMORY DEVICE CAPABLE OF MULTI-BIT DATA AND

SINGLE-BIT DATA

**Date of  
Signing of  
Application**

for which an application for patent in the United States of America has been executed by  
the undersigned on \_\_\_\_\_

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuing, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

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 or similar agreements.

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.

The undersigned hereby grant(s) the practitioners associated with the **CUSTOMER NUMBER 20987** 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 Office for recordation of this document.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date 11<sup>th</sup> Jul. -06 Signature of Inventor Jin-Yub Lee  
Jin-Yub LEE

Date \_\_\_\_\_ Signature of Inventor \_\_\_\_\_

Date \_\_\_\_\_ Signature of Inventor \_\_\_\_\_

Date \_\_\_\_\_ Signature of Inventor \_\_\_\_\_

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Date \_\_\_\_\_ Signature of Inventor \_\_\_\_\_

Date \_\_\_\_\_ Signature of Inventor \_\_\_\_\_

**(Note regarding Witnessing:** It is recommended that the execution by the Inventor(s) be witnessed by at least two witnesses who sign here. However, the current practice of the U.S. Patent and Trademark Office is to record an Assignment even it has not been witnessed.)

Witness \_\_\_\_\_

Witness \_\_\_\_\_

.....

Applicant Reference No. ID14601-US