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Docket No.: SEC.1104

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P08A/REV03

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102755804

To the Honorable Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

HA, Young-Ki BAEK, In-Gyu
LEE, Jang-Eun OH, Se-Chung
KIM, Hyun-Jo
BAE, Jun-Soo

Additional names(s) of conveying party(ies) Yes No

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

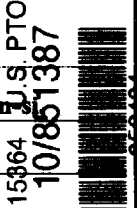
Name: SAMSUNG ELECTRONICS CO., LTD.

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

City: Gyeonggi-do State/Prov.: _____

Country: Republic of Korea ZIP: _____

Additional name(s) & address(es) Yes No



3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: May 10, 2004

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: May 10, 2004

Patent Application No. Filing date
NEW MAY 24, 2004

05/26/2004 HALI11 00000052 10851387
01 FC:8021 40.00 OP

Additional numbers

B. Patent No.(s)

5-24-04

10851387

Yes No

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

Name: ADAM C. VOLENTINE
Registration No. 33289
Address: VOLENTINE FRANCOS, PLLC
12200 SUNRISE VALLEY DRIVE, SUITE 150

City: RESTON State/Prov.: VA

Country: U.S.A. ZIP: 20191

6. Total number of applications and patents involved: 1

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

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50-0238

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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.

ADAM C. VOLENTINE
Name of Person Signing

Signature

MAY 24, 2004
Date

3

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PATENT
REEL: 015382 FRAME: 0371

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>Young-Ki HA</u> | 5. <u>In-Gyu BAEK</u> |
| 2. <u>Jang-Eun LEE</u> | 6. <u>Se-Chung OH</u> |
| 3. <u>Hyun-Jo KIM</u> | 7. _____ |
| 4. <u>Jun-Soo BAE</u> | 8. _____ |

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

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

SAMSUNG ELECTRONICS CO., LTD.

Address(es)

of 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, 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**

MAGNETIC TUNNEL JUNCTION AND MEMORY DEVICE INCLUDING THE

SAME

**Date of
Signing of
Application**

for which an application for patent in the United States of America has been executed by the undersigned on May 10, 2004

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 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.

The undersigned hereby grant(s) to Adam C. Volentine, Reg. No. 33,289 and William S. Francos, Reg. No. 38,456, and the firm of VOLENTINE FRANCOS, P.L.L.C. 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.

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

Date May 10, 2004 Signature of Inventor [Signature]
Young-Ki HA

Date ~~Lee. J. B.~~
May 10, 2004 Signature of Inventor [Signature]
Jang-Eun LEE

Date May 10 2004 Signature of Inventor [Signature]
Hyun-Jo KIM

Date May 10 2004 Signature of Inventor [Signature]
Jun-Soo BAE

Date May 10, 2004 Signature of Inventor [Signature]
In-Gu BAEK

Date May 10, 2004 Signature of Inventor [Signature]
Se-Chung OH

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. _____ Attorney Docket No. _____ SEC. 1104 _____