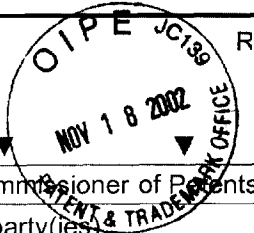


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102290011

To the Honorable Commissioner of Patents

Attached original documents or copy thereof.

1. Name of conveying party(ies):

KYUNG, Kye-Hyun

11-18-02

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherExecution Date: October 1, 2002

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

Name: SAMSUNG ELECTRONICS CO., LTD.Address: 416, Maetan-dong, Paldal-gu,City: Suwon-city, Kyungki-do State/Prov.: _____Country: Republic of Korea ZIP: _____

Additional name(s) & 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: _____

Patent Application No.

Filing date

B. Patent No.(s)

10/224,63208/21/2002

Additional numbers

☐ Yes ☒ No

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

Name: ADAM C. VOLENTINERegistration No. 33289Address: VOLENTINE FRANCOS, PLLC12200 SUNRISE VALLEY DRIVE, SUITE 150City: RESTONState/Prov.: VACountry: U.S.A.ZIP: 20191

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

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50-0238

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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.

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Name of Person Signing

Signature

NOV. 18, 2002

Date

3

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REEL: 013502 FRAME: 0621

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. KYUNG, Kye-Hyun

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

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

Samsung Electronics Co., Ltd.

of 416 Maetan-dong, Paldal-gu, Suwon-city, Kyungki-do, Republic of Korea

**Title of
Invention**

(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

DEVICES AND METHODS FOR CONTROLLING ACTIVE TERMINATION

RESISTORS IN A MEMORY SYSTEM

**Date of
Signing of
Application**

for which an application for patent in the United States of America has been executed by the undersigned on October 1, 2002

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 1 Oct. 2002 , Name of Inventor Kye-Hyun Kyung
Kye-Hyun KYUNG
Date _____ , Name of Inventor _____
Date _____ , Name of Inventor _____
Date _____ , Name of Inventor _____
Date _____ , Name of Inventor _____
Date _____ , Name of Inventor _____

(Note regarding Witnessing and/or Acknowledgment: Acknowledgment before a United States Consul is preferred but not required. If not acknowledged, then 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 acknowledged and/or witnessed.)

Witness _____

Witness _____

ACKNOWLEDGMENT

_____ }

Applicant Reference No. ID200109-020 Atty Docket No. SEC.924