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06-09-2005

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

113014 U.S. PTO  
11/143571

060305

1. Name of conveying party(ies):  
 Young-min CHAE

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

2. Name and address of receiving party(ies)  
 Name: Samsung Electronics Co., Ltd.  
 Internal Address: \_\_\_\_\_  
 Street Address: 416, Maetan-dong, Yeongtong-gu  
 Suwon-si, Gyeonggi-do  
 City: \_\_\_\_\_ State: KOREA Zip: \_\_\_\_\_

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

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: JUNE 3, 2005

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: JUNE 3, 2005

A. Patent Application No.(s) \_\_\_\_\_ B. Patent No.(s) \_\_\_\_\_

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
 Name: John E. Holmes  
 Internal Address: \_\_\_\_\_  
 Roylance, Abrams, Berdo & Goodman, LLP  
 Street Address: 1300 19th Street, N.W., Suite 600  
 City: Washington State: DC Zip: 20036

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

8. Deposit account number:  
 18-2220  
 (Attach duplicate copy of this page if paying by deposit account)

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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.*

Ronald S. Grubb (Reg. No. 48,672) Ronald S. Grubb JUNE 3, 2005  
 Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:  
 Commissioner of Patents & Trademarks, Box Assignments  
 Washington, D.C. 20231

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04 FC:8021 (40.00 DP)

47850 (OEC1980US)  
Serial No. \_\_\_\_\_  
Filed: \_\_\_\_\_

## ASSIGNMENT

WHEREAS, I, Young-min CHAE, a citizen of the Republic of Korea, residing at 321-1004, Cheongmyeong-maeul 3danji Apartment, Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea, (hereinafter ASSIGNOR), have made a certain invention entitled,

### **FUSER-CONTROLLING APPARATUS FOR GENERATING A POWER SYNCHRONIZATION SIGNAL AND DETECTING POWER VOLTAGE**

which I am making application for Letters Patent of the United States, said application being executed concurrently herewith; and

WHEREAS, Samsung Electronics Co., Ltd., a corporation duly organized under the laws of the Republic of Korea, located and doing business at 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea (hereinafter ASSIGNEE), is desirous of acquiring the entire right, title and interest in and to the aforementioned invention and the aforementioned application and any and all United States Letters Patent to be obtained on said invention and/or application;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN that for good and valuable consideration paid to me by said ASSIGNEE, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, by these presents do hereby sell, assign, set over and transfer unto said ASSIGNEE, its successors, legal representatives or assigns, the entire right, title and interest in and to the aforesaid invention in and for the United States; and in, to and under the aforesaid United States application and any divisional, continuing, substitute or reissue applications or supplementary disclosures which may be filed on said invention in the United States; and my right to file said applications and claim priority under the provisions of any international convention or treaty; and any Letters Patent of the United States issued or granted on said invention and/or said applications;

AND I HEREBY authorize and request the U.S. Patent and Trademark Office or other issuing authority to issue any and all patents on said invention and/or said application to said ASSIGNEE as sole assignee;

AND I HEREBY covenant that I have the full right to convey the entire right, title and interest herein assigned and that I have not executed and will not execute any assignment or other instrument in conflict herewith;

AND I HEREBY further covenant and agree to communicate to said ASSIGNEE, or its legal representatives, successors or assigns, any facts relating to said invention, including evidence for interference purposes or other proceedings, whenever requested, and to testify in any interference or in any other legal proceeding, when requested, and to execute and deliver on request all lawful papers required to make any of the foregoing provisions effective; and to perform the aforesaid communicating, executing and delivering, without any payment except ASSIGNMENT

expenses and to perform the aforesaid testifying for reasonable compensation; and generally to do everything possible to aid the said ASSIGNEE, its successors, legal representatives or assigns to obtain and enforce proper patent protection on and for said invention in the United States, and likewise I make these provisions binding upon my heirs, legal representatives and/or administrators.

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 7<sup>th</sup> day  
of June, 2005.



Witness Eun-ji LEE



Young-min CHAE

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RECORDED: 06/05/2005

PATENT  
REEL: 016656 FRAME: 0829