

06-29-2006

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103266070

To the Director of the U.S. Patent and Trademark Office

See address(es) below.

1. Name of conveying party(ies)

Hwan-Joon Kwon Joon-Young Cho
Dong-Hee Kim Yu-Chul Kim
Jin-Kyu Han
Ju-Ho Lee

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

3. Nature of conveyance/Execution Date(s):

Execution Date(s) June 22, 2006

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: Samsung Electronics Co., Ltd.

Internal Address: _____

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

City: Suwon-Si

State: Gyeonggi-do

Country: Republic of Korea Zip: 442-742

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

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

11/433,770

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Roylance, Abrams, Berdo & Goodman, L.L.P.

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Street Address: 1300 19th Street, N.W.

City: Washington

State: D.C. Zip: 20036

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6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card
☐ Authorized to be charged to deposit account
☒ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number _____

Authorized User Name _____

9. Signature:

Raymond B. Persino
Signature

June 26, 2006

Date

Raymond B. Persino

Name of Person Signing

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

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

06/27/2006 HAL111 00000110 11433770

01 FC:8021

40.00 OP

ASSIGNMENT

WHEREAS, We, (1) Hwan-Joon KWON; (2) Dong-Hee KIM; (3) Jin-Kyu HAN; (4) Ju-Ho LEE; (5) Joon-Young CHO; and (6) Yu-Chul KIM, all citizens of the Republic of Korea, residing respectively at (1) #944-614, Byuckjeokgol 9-danji Lotte APT., Yeongtong-dong, Youngtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea; (2) #124-1903, LG Xi 1-cha APT., Sinbongmaeul, 873, Sinbong-dong, Yongin-si, Gyeonggi-do, Republic of Korea; (3) #305, 984-6, Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea; (4) #730-304, Salgugol Hyundai APT., Yeongtong-dong, Youngtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea; (5) #124-802, Hwanggolmaeul 1-danji APT., Yeongtong-dong, Youngtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea; and (6) #54, 1st floor, 209, Maetan 4-dong, Youngtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea (hereinafter "ASSIGNORS"), have made a certain invention entitled "**METHOD AND APPARATUS FOR INDEXING PHYSICAL CHANNELS IN AN OFDMA SYSTEM**" for which we are making application for Letters Patent of the United States, which application has been filed in the US Patent and Trademark Office on May 15, 2006 and assigned Serial No. 11/433,770; 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, Republic of 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 us by said ASSIGNEE, the receipt and sufficiency of which is hereby acknowledged, we, the ASSIGNORS, by these presents do hereby sell, assign, set over and transfer unto the 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 our right to file said applications and claim priority under the provisions of any international treaty or convention; and in and to any Letters Patent of the United States issued or granted on said invention and/or said applications;

AND WE 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 applications to said ASSIGNEE as sole assignee;

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

ASSIGNMENT

AND WE 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 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 we make these provisions binding upon our heirs, legal representatives and/or administrators.

The undersigned hereby grant the firm of Roylance, Abrams, Berdo & Goodman, L.L.P. 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 have hereunder set my hand and seal this 22nd day of June, 2006.


Hwan-Joon KWON



Witness

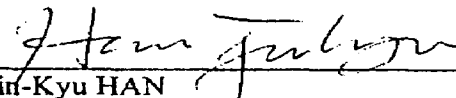
IN WITNESS WHEREOF, I have hereunder set my hand and seal this 22nd day of June, 2006.


Dong-Hee KIM



Witness

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 22nd day of June, 2006.



Jin-Kyu HAN



Witness

ASSIGNMENT

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 22nd day of
June, 2006.


Ju-Ho LEE



Witness

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 22nd day of
June, 2006.


Joon-Young CHO


Witness

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 22nd day of
June, 2006.


Yu Chul KIM


Witness

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