

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT | | | | | | | | | | | | | | |
|--|---|---------------|----------------|---------------------|------------|----------------|------------|-------------|------------|---------------|------------|--------------|------------|-------------------|------------|
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the city of the Assignee previously recorded on Reel 017891 Frame 0520. Assignor(s) hereby confirms the city of the Assignee is Suwon-si, as identified on the original executed assignment. | | | | | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>JUNG-HO KIM</td> <td>05/12/2006</td> </tr> <tr> <td>YOUNG-GON CHOI</td> <td>05/12/2006</td> </tr> <tr> <td>JI-HOON LEE</td> <td>05/12/2006</td> </tr> <tr> <td>YONG-SUNG ROH</td> <td>05/12/2006</td> </tr> <tr> <td>JAE-HOON KIM</td> <td>05/12/2006</td> </tr> <tr> <td>SHUBHRANSHU SINGH</td> <td>05/12/2006</td> </tr> </tbody> </table> | | Name | Execution Date | JUNG-HO KIM | 05/12/2006 | YOUNG-GON CHOI | 05/12/2006 | JI-HOON LEE | 05/12/2006 | YONG-SUNG ROH | 05/12/2006 | JAE-HOON KIM | 05/12/2006 | SHUBHRANSHU SINGH | 05/12/2006 |
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| JAE-HOON KIM | 05/12/2006 | | | | | | | | | | | | | | |
| SHUBHRANSHU SINGH | 05/12/2006 | | | | | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | | | | | |
| Name: | SAMSUNG ELECTRONICS CO., LTD. | | | | | | | | | | | | | | |
| Street Address: | 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do | | | | | | | | | | | | | | |
| City: | Suwon-si | | | | | | | | | | | | | | |
| State/Country: | KOREA, REPUBLIC OF | | | | | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11432384</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 11432384 | | | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | | | |
| Application Number: | 11432384 | | | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | | | |
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| ATTORNEY DOCKET NUMBER: | 012051.0104 | | | | | | | | | | | | | | |
| NAME OF SUBMITTER: | David W. Ward | | | | | | | | | | | | | | |

OP \$40.00 11432384

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|--|-----------------|
| Signature: | /David W. Ward/ |
| Date: | 08/22/2013 |
| Total Attachments: 6 source=NOA20130815_0120510104_NOR_Assign_markedup#page1.tif source=NOA20130815_0120510104_NOR_Assign_markedup#page2.tif source=NOA20130815_0120510104_NOR_Assign_markedup#page3.tif source=NOA20130815_0120510104_NOR_Assign_markedup#page4.tif source=NOA20130815_0120510104_NOR_Assign_markedup#page5.tif source=NOA20130815_0120510104_NOR_Assign_markedup#page6.tif | |



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JULY 07, 2006

PTAS



103239339A

JOHN E. HOLMES
1300 19TH ST., N.W., SUITE 600
WASHINGTON, DC 20036-1649

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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RECORDATION DATE: 05/12/2006

REEL/FRAME: 017891/0520
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

KIM, JUNG-HO

DOC DATE: 05/12/2006

ASSIGNOR:

CHOI, YOUNG-GON

DOC DATE: 05/12/2006

ASSIGNOR:

LEE, JI-HOON

DOC DATE: 05/12/2006

ASSIGNOR:

ROH, YONG-SUNG

DOC DATE: 05/12/2006

ASSIGNOR:

KIM, JAE-HOON

DOC DATE: 05/12/2006

ASSIGNOR:

SINGH, SHUBHRANSHU

DOC DATE: 05/12/2006

Doc'd File 49907
Rec'd

JUL 13 2006

ROYLANCE, ABRAMS
BERDO & GOODMAN, L.L.P.
BY PATENT

ASSIGNEE:

SAMSUNG ELECTRONICS CO., LTD.
416 MAETON-DONG, YEONGTONG-GU
SUWON-SI, GYEONGGI-DO, ~~SEOUL~~

REPUBLIC OF KOREA

SERIAL NUMBER: 11432384

FILING DATE: 05/12/2006

PATENT NUMBER:

ISSUE DATE:

TITLE: METHOD AND SYSTEM FOR CHANNEL SCANNING IN A MESH NETWORK

JEEVON JONES, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

RECC



48967 5/10/06

103239339

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

(1) Jung-Ho Kim, (2) Young-Gon Choi, (3) Ji-Hoon Lee,
(4) Yong-Sung Roh, (5) Jae-Hoon Kim, and (6) Shubhranshu Singh

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 Maeton-dong, Yeongtong-gu

Suwon-si, Gyeonggi-do

City: Seoul

State: _____

Country: Republic of Korea Zip: _____

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

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

Execution Date(s) May 12, 2006

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

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

05/15 2006 STEUMEL1 00000079 11432384

04 FC 8021

40.00 OP

Additional numbers attached? Yes No

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

Name: John E. Holmes

Internal Address: _____

Street Address: 1300 19th St., N.W., Suite 600

City: Washington

State: DC Zip: 20036-1649

Phone Number: (202) 659-9076

Fax Number: (202) 659-9344

Email Address: _____

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:

John E. Holmes
Signature

May 12, 2006

Date

John E. Holmes

Name of Person Signing

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

4

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

12955 U.S. PTO
11432384

051206

Our File No: 48967
Your File No: P13284-US

ASSIGNMENT

WHEREAS, We, (1) Jung-Ho Kim, a citizen of the Republic of Korea; (2) Young-Gon Choi, a citizen of the Republic of Korea; (3) Ji-Hoon Lee, a citizen of the Republic of Korea; (4) Yong-Sung Roh, a citizen of the Republic of Korea; (5) Jae-Hoon Kim, a citizen of the Republic of Korea; and (6) Shubhranshu Singh, a citizen of India, residing respectively at (1) #401, 1033-5, Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea; (2) #439-1001, Cheongmyeongmaeul 4-danji Samsung Raemian Apt., Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea; (3) #105-303, Woosung Apt., Daeseong-dong, Sangdang-gu, Cheongju-si, Chungcheongbuk-do, Republic of Korea; (4) 1-9, Jungni-dong, Icheon-si, Gyeonggi-do, Republic of Korea; (5) #306, Segyeong, 333-33, Cheonho 2-dong, Gangdong-gu, Seoul, Republic of Korea; and (6) Dormitory of Samsung Jonghappgisulwon, Giheung-eup, Yongin-si, Gyeonggi-do, Republic of Korea (hereinafter "ASSIGNORS"), have made a certain invention entitled "**METHOD AND SYSTEM FOR CHANNEL SCANNING IN A MESH NETWORK**" for which we are making application for Letters Patent of the United States, which application is 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, 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;

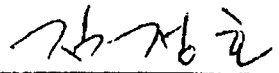
AND WE HEREBY authorize and request the U.S. Patent and Trademark Office or other issuing authority to issue any and all patents on said invention and/or said applications to said ASSIGNEE as sole assignee;

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;

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.

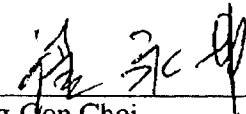
IN WITNESS WHEREOF, I have hereunder set my hand and seal this 12th day of May, 2006.



Jung-Ho Kim

Witness


IN WITNESS WHEREOF, I have hereunder set my hand and seal this 12th day of May, 2006.



Young-Gon Choi

Witness

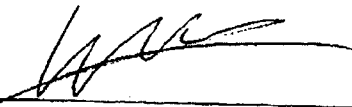
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Ji-Hoon Lee

Witness

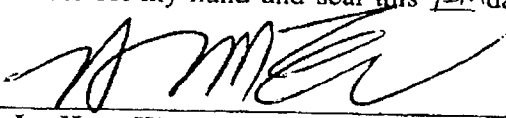
IN WITNESS WHEREOF, I have hereunder set my hand and seal this 12th day of May, 2006.



Yong-Sung Roh

Witness

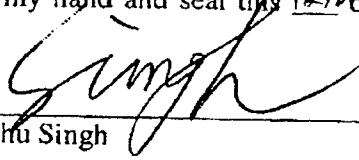
IN WITNESS WHEREOF, I have hereunder set my hand and seal this 12th day of May, 2006.



Jae-Hoon Kim

Witness

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 12th day of May, 2006.



Shubhranshu Singh

Witness