

Form PTO-1595 (Rev. 07/05)
OMB No. 0651-0027 (exp. 6/30/2008)

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

RECORDATION FORM COVER SHEET PATENTS ONLY

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)

Jae-Hoon KIM Jung-Ho KIM
Ji-Hoon LEE Young-Gon CHOI
Young-Sang KIM An ARAPOSTATHIS

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

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

Execution Date(s) January 27, 2006 and March 9, 2006

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☒ Other Document ID No.: 103198406

2. Name and address of receiving party(ies)

Name: Samsung Electronics Co., Ltd.

Internal Address: _____

Street Address: 416 Meatan-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):

A. Patent Application No.(s)
11/260,686

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

Internal Address: Suite 600

Street Address: 1300 19th Street, NW

City: Washington

State: D.C. Zip: 20036

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
☒ Previously submitted
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 16-2220

Authorized User Name John E. Holmes

9. Signature:

Raymond B. Persino
Signature

July 12, 2006

Date

Raymond B. Persino, Reg. No. 58,082

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 6

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

RECORDATION FORM COVER SHEET
Additional Page

Docket Number	49996		+
1. Name of Receiving Parties (Cont. of the Information Item 1)			
<p>Name and address of additional receiving party</p> <p>Name: Board of Regents, The University of Texas System</p> <p>Internal Address:</p> <p>Street Address: 201 W. 7th Street</p> <p>City: Austin State: TX Zip: 78701</p> <p>Additional name(s) & address(es) attached? NO</p>			

Number 2 of 2

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.



03-15-2006

Form PTO-1595 (Rev. 07/05)
OMB No. 0651-0027 (exp. 6/30/2008)

DEPARTMENT OF COMMERCE
Patent and Trademark Office

RECORD 1

103198406

PATENTS ONLY

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)

Jae-Hoon KIM Jung-Ho KIM
Ji-Hoon LEE Young-Gon CHOI
Young-Sang KIM Ari ARAPOSTATHIS

2. Name and address of receiving party(ies)Name: Samsung Electronics Co., Ltd.

Internal Address: _____

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) _____

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other January 27 & March 9, 2006, respectively

Street Address: 416 Meetan-dong, Yeongtong-guCity: Suwon-siState: Gyeonggi-doCountry: Republic of Korea Zip: 442-742Additional 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)

11/260,686

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.Internal Address: Suite 600Street Address: 1300 19th Street, NWCity: WashingtonState: D.C. Zip: 20036Phone Number: (202) 659-9076Fax 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 Informationa. Credit Card Last 4 Numbers _____
Expiration Date _____b. Deposit Account Number 18-2220Authorized User Name John E. Holmes**9. Signature:**

Signature

March 10, 2006
Date

Maeng-Ho Shin, Reg. No. 53,859

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 5

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

03/13/2006 HALI11 00000143 11260686

01 FC:8021

40.00 DP

PATENT
REEL: 017932 FRAME: 0741

Our File No: 49996
Your File No: P13564-US

ASSIGNMENT

WHEREAS, We, (1) Jae-Hoon KIM; (2) Jung-Ho KIM; (3) Ji-Hoon LEE; (4) Young-Gon CHOI; (5) Young-Sang KIM; all citizens of the Republic of Korea; (6) Ari Arapostathis, a citizen of USA; residing respectively at (1) #306, Segyeong, 333-33, Cheonho 2-dong, Gangdong-gu, Seoul, Republic of Korea; (2) #401, 1033-5, Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do,, Republic of Korea; (3) 105-303, Wooseong Apt., Daeseong dong, Sangdang-gu, Cheongju si, Gyeonggi do,, Republic of Korea; (4) 439-1001, Samsung raemian Apt., Cheongmyeong-maue, Gyeonggi-do, Republic of Korea; (5) The University of Texas at Austin, Department of Electronical and Computer Engineeering of 1 University Station, C0803 Austin, TX78712-0240, USA, Republic of Korea; (6) The University of Texas at Austin, Department of Electronical and Computer Engineeering of 1 University Station, C0803 Austin, TX78712-0240, USA, (hereinafter ASSIGNORS) have made a certain invention entitled **"POWER-SAVING METHOD FOR WIRELESS SENSOR 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, and Board of Regents, The University of Texas System, an education institution duly organized under the laws of the Commonwealth of Texas, located at 201 W.7th Street, Austin, Texas 78701, United States of America (hereinafter ASSIGNEES) are desirous of jointly 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 ASSIGNEES, 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 ASSIGNEES, their 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;

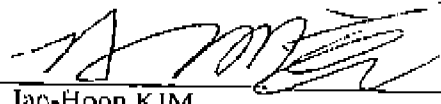
AND WE HEREBY authorize and request the U.S. Patent and Trademark Office or other issuing authority to issue any and all patents on said invention and/or said applications to said ASSIGNEES as joint assignees;

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 ASSIGNEES, or their 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 ASSIGNEES, their 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.

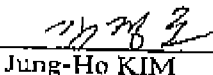
IN WITNESS WHEREOF, I have hereunder set my hand and seal this 27 day of January, 2006.



Jae-Hoon KIM

Witness

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 27 day of January, 2006.



Jung-Ho KIM

Witness

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 27 day of January, 2006.



Ji-Hoon LEE

Witness

ASSIGNMENT

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 27 day of
January, 2006.



Young-Gon CHOI

Witness

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 27 day of
January, 2006.

Young-Sang KIM

Witness

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 27 day of
January, 2006.

Arapostathis ARI

Witness

ASSIGNMENT

IN WITNESS WHEREOF, I have hereunder set my hand and seal this ____ day of _____, 2005.

Young-Gon CHOI

Witness

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 09 day of March, 2006.

Young-Sang Kim
Young-Sang KIM

Witness

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 09 day of March, 2006.

An ARAPOSTATHIS
An ARAPOSTATHIS

Witness

ASSIGNMENT

Our File No: 49996

Your File No: P13564-US

ASSIGNMENT

WHEREAS, We, (1) Jae-Hoon KIM; (2) Jung-Ho KIM; (3) Ji-Hoon LEE; (4) Young-Gon CHOI; (5) Young-Sang KIM; all citizens of the Republic of Korea; (6) Ari Arapostathis, a citizen of USA; residing respectively at (1) #306, Segyeong, 333-33, Cheonho 2-dong, Gangdong-gu, Seoul, Republic of Korea; (2) #401, 1033-5, Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do., Republic of Korea; (3) 105-303, Wooseong Apt., Daeseong dong, Sangdang-gu, Cheongju si, Gyeonggi do., Republic of Korea; (4) 439-1001, Samsung raemian Apt., Cheongmyeong-maeul, Gyeonggi-do, Republic of Korea; (5) The University of Texas at Austin, Department of Electrical and Computer Engineering of 1 University Station, C0803 Austin, TX78712-0240, USA, Republic of Korea; (6) The University of Texas at Austin, Department of Electrical and Computer Engineering of 1 University Station, C0803 Austin, TX78712-0240, USA, (hereinafter ASSIGNORS) have made a certain invention entitled "**POWER-SAVING METHOD FOR WIRELESS SENSOR 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, and Board of Regents, The University of Texas System, an education institution duly organized under the laws of the Commonwealth of Texas, located at 201 W.7th Street, Austin, Texas 78701, United States of America (hereinafter ASSIGNEES) are desirous of jointly 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 ASSIGNEES, 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 ASSIGNEES, their 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;

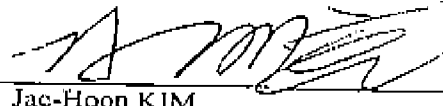
AND WE HEREBY authorize and request the U.S. Patent and Trademark Office or other issuing authority to issue any and all patents on said invention and/or said applications to said ASSIGNEES as joint assignees;

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 ASSIGNEES, or their 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 ASSIGNEES, their 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.

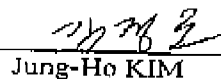
The undersigned hereby grant the firm of Roylance, Abrams, Berdo & Goodman, L.L.P. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 27 day of January, 2006.


Jac-Hoon KIM

Witness

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 27 day of January, 2006.


Jung-Ho KIM

Witness

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 27 day of January, 2006.


Ji-Hoon LEE

Witness

ASSIGNMENT

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 27 day of
January, 2006.



Young-Gon CHOI

Witness

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 27 day of
January, 2006.

Young-Sang KIM

Witness

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 27 day of
January, 2006.

Arapostathis ARI

Witness

ASSIGNMENT

IN WITNESS WHEREOF, I have hereunder set my hand and seal this ____ day of _____, 2005.

Young-Gon CHOI

Witness

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 09 day of March, 2006.

Young-Sang KIM

Witness

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 09 day of March, 2006.

AN ARAPOSTATHIS

Witness

ASSIGNMENT