

04-21-2009

FORM PTO-1595  
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Attorney Docket No: 5004-1-127

To the Assistant Commissioner for Patents

1. Name of conveying party(ies):  
Do Young HA; Joon Oo KIM; Yun Je OH;  
Joong Soo MA; Myoung Hwan SEO;  
Sung Chang CHOI; Myoung In JIAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name

Other: \_\_\_\_\_

Execution Date: April 16, 2009

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

Name: SAMSUNG ELECTRONICS CO., LTD.

Address: 416, MAETAN-DONG, YEONGTONG-GU

SUWON-SI, GYEONGGI-DO

REPUBLIC OF KOREA

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

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: \_\_\_\_\_

A. Patent Application No.(s)

12/361,606

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Steve Cha

Address: CHA & REITER  
210 Route 4 East, Suite #103  
Paramus, New Jersey 07652

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

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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.

Steve Cha, Reg No.44,069  
Name of Person Signing

Signature

Date

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01 EC:8021 48.00 UF

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Assistant Commissioner for Patents  
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(9/94)PATENT  
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### Assignment of Invention and Patent Application

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for and in consideration of TEN (\$10.00) DOLLAR,

- |                    |    |                                                                                                                                             |
|--------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------|
| 1) Do Young HA     | of | No. 401-1004, (401-414), Sambu Apt., Saethyeol-maeul, Bundang-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea                 |
| 2) Joon Oo KIM     | of | No. 331-1302, Samik Byeoksan Apt., 3-danji, Cheongmyeong-maeul, Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea      |
| 3) Yun Je OH       | of | No. 107-1801, Samsung Raemian 1-Cha Apt., Mabuk-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea                                 |
| 4) Joong Soo MA    | of | No. 118-402, Hyundai Apt., Apgujeong-dong, Gangnam-gu, Seoul, Republic of Korea                                                             |
| 5) Myoung Hwan SEO | of | No. 104-1101, Jindalrae Apt., Wolpyeong 3-dong, Seo-gu, Daejeon Metropolitan City, Republic of Korea                                        |
| 6) Sung Chang CHOI | of | No. 7-101, Dormitory, Information and Communications University, 58-1, Hwaam-dong, Yuseong-gu, Daejeon Metropolitan City, Republic of Korea |
| 7) Myoung In JI    | of | No. 102-1601, Daewoo Prugio Apt., Jangam-dong, Uijeongbu-si, Gyeonggi-do, Republic of Korea                                                 |

(hereinafter **Assignor**) hereby sells, assigns, transfers, and sets over unto:

**SAMSUNG ELECTRONIC CO., LTD.** of  
**416, MAETAN-DONG, YEONGTONG-GU, SUWON-SI, GYEONGGI-DO,**  
**REPUBLIC OF KOREA**

(hereinafter **Assignee**) the entire right, title and interest for the United States Of America as defined in 35 U.S.C. ' 1.00, in and to the invention entitled as:

**LOCATION SENSING SYSTEM AND METHOD FOR MOBILE COMMUNICATION SYSTEM**

invented by **Assignor**; the application for United States patent therefor, invented by **Assignor**; any patent

or reissues of any patent that may be granted thereon; and any applications which are continuations, continuation-in-part, substitutes, or divisions of said application. Assignor authorizes Assignee to enter the date of signature and/or Serial Number and Filing Date in the above. Assignor also authorizes and requests the Commissioner of Patents and Trademarks to issue any resulting patent(s) to the said Assignee, for its interests as Assignee, its successors, assigns and legal representatives. The undersigned agrees that the attorney of record in said application shall hereafter act on behalf of said Assignee; and Assignor further conveys to Assignee all priority rights resulting from the above-identified application for United States Patent. Assignor agrees to execute all papers, give any required testimony and perform other lawful acts, as deemed essential by Assignee to perfect Assignee's interest in any resulting patent of the United States, and to acquire, hold, enforce, convey, and uphold the validity of said patent and reissues and extensions thereof, and Assignee's interest therein.

**SIGNED ON THE DATES(S) INDICATED BESIDE MY/OUR SIGNATURE(S):**

**Name of First Inventor: Do Young HA**

Do Young Ha  
Signature of inventor

Dated: April 16, 2009

WITNESSED: hee wan Jung

**Name of Second Inventor: Joon Oo KIM**

Joon Oo Kim  
Signature of inventor

Dated: April 16, 2009

WITNESSED: hee wan Jung

**Name of Third Inventor: Yun Je OH**

Yun Je Oh  
Signature of inventor

Dated: April 16, 2009

WITNESSED: hee wan Jung

Name of Fourth Inventor: Joong Soo MA

Joong Soo Ma  
Signature of inventor

Dated: April 16, 2009

WITNESSED: hee won Jung

Name of Fifth Inventor: Myoung Hwan SEO

Myoung Hwan Seo  
Signature of inventor

Dated: April 16, 2009

WITNESSED: hee won Jung

Name of Sixth Inventor: Sung Chang CHOI

Sung Chang Choi  
Signature of inventor

Dated: April 16, 2009

WITNESSED: hee won Jung

Name of Seventh Inventor: Myoung In JI

Myoung In Ji  
Signature of inventor

Dated: April 16, 2009

WITNESSED: hee won Jung