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ER SHEET

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12/451047

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

103578958

See attached documents or the new address(es) below

## 1. Name of conveying party(ies):

1. CHUN, Jin Young      4. LEE, Moon Il  
2. IHM, Bin Chul      5. KO, Hyun Soo  
3. LEE, Wook Bong

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

## 3. Nature of Conveyance/Execution Date(s):

- ☒ Assignment      ☐ Merger  
☐ Security Agreement      ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Agreement  
☐ Other \_\_\_\_\_

Execution Date(s): October 8, 2009

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

Name: LG ELECTRONICS INC.

Internal Address: \_\_\_\_\_

Street Address: 20 Yeouido-dong

Yeongdeungpo-gu

City: Seoul

State: \_\_\_\_\_

Country: Korea, Republic of

Zip: 150-721

Additional name(s) &amp; 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): 12,451,047, filed

B. Patent No.(s):

Additional numbers attached? ☐ Yes ☒ No

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

Name: MCKENNA LONG &amp; ALDRIDGE LLP

Internal Address: Atty. Dkt.: 8737.263.00

Street Address:  
1900 K STREET, N.W.City:  
WASHINGTON

State: DC Zip: 20006

## 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  
☐ None required (government interest not affecting title)

## 8. Deposit account number:

50-0911

## 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.

Michael I. Angert Registration No.: 40,106

Name of Person Signing, Reg. No.

Signature

October 23, 2009  
Date

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

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**Assignment of Application**

|  |   |
|--|---|
| WHEREAS, I (WE)  | CHUN, Jin Young, IHM, Bin Chul, LEE, Wook Bong, |
| LEE, Moon Il, KO, Hyun Soo   | , respectively,                                 |
| have invented certain new and useful improvements in:                      |   |
| Method for transmitting control signals in a wireless communication system |   |
| for which an application for Letters Patent was executed on                |   |
| (Application No.   | , Filed   |
| WHEREAS,   | LG ELECTRONICS INC.                             |
| (hereinafter referred to as "ASSIGNEE") having a place of business at:     |   |
| 20, Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea        |   |

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and Its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behalf of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of McKenna Long & Aldridge LLP, Attorneys at Law, 1900 K Street, N.W., Washington, D.C. 20006 the power to insert on this assignment any further identification, including the application number and filing date, 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.

Date: Oct. 08, 2009

(Signature of Inventor)

CHUN, Jin Young

Date: Oct 08, 2009

(Signature of Inventor)

IHM, Bin Chul

Date: Oct. 08. 2009

(Signature of Inventor)

LEE, Wook Bong

Date: Oct. 09. 2009

(Signature of Inventor)

LEE, Moon Il

Date: Oct. 08. 2009

(Signature of Inventor)

KO, Hyun Soo

**McKenna Long & Aldridge LLP**  
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