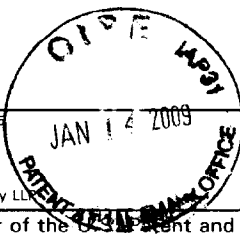


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U.S. DEPARTMENT OF COMMERCE

1. Name of conveying party(ies):

Hoon CHUNG
Yunkeun LEE

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

ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE
161, Gajeong-dong, Yuseong-gu,
Daejeon 305-350, Republic of Korea

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other: _____

Execution Date(s): November 27, 2008

4. Application number(s) or patent number(s):

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

☒ This document is being filed after filing of the application:

(a) Patent Application No(s) 12/334,032 filed December 12, 2008 ; or

(b) Patent No(s) , issued .

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

STAAS & HALSEY LLP

Our Docket: 2033.1042

Attention: J. Randall Beckers

1201 New York Ave., N.W., Suite 700

Washington, D.C. 20005

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)..... (\$ 40.00 per Patent or Application in Assignment)

☒ Enclosed
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8. Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account)

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U.S. ASSIGNMENT

S&H 1/00

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by

(Insert Name(s) & Address(es) of ASSIGNEE(S))

Electronics and Telecommunications Research Institute
161, Gajeong-dong, Yuseong-gu, Daejeon 305-350, Republic of Korea

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled
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(a) executed on ;

(Insert date of execution of application, if not concurrent)

(b) filed on ,

Any registered attorney of STAAS & HALSEY LLP, 1201 New York Avenue, N.W., Suite 700 Washington, D.C. 20005 (202/434-1500) is hereby authorized to insert in (b) the specified data, when known.

Serial No. ;

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The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Typed Name & Signature of Inventor(s))

(Date)

(Typed Name & Signature of Witness(es))

1) CHUNG, Hoon 27. Nov. 2008

2) LEE, Yunkeun 27/Nov/2008

☐ Additional inventors are being named on separately numbered sheets attached hereto.