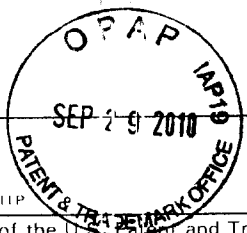


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10-01-2010



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U.S. DEPARTMENT OF COMMERCE

ent.

1. Name of conveying party(ies):

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

Electronics and Telecommunications Research Institute
161, Gajeong-dong, Yuseong-gu,
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3. Nature of conveyance:

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

Execution Date(s): August 23, 2010, May 31, 2010, May 12, 2010, May 31, 2010, June 2, 2010, June 9, 2010, and June 2, 2010, respectively

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

☒ This document is being filed after filing of the application:
(a) Patent Application No(s). 12/743,107, filed May 14, 2010; 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: 1998.1082
Attention: Sang Chul Kwon
1201 New York Ave., N.W., 7th Floor
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
☒ Authorized to be charged to deposit account.

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

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J. Randall Beckers, Reg. No. 30,358
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IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) RYOO, Jeong-Dong; RHEE, June-Koo; JOO, Bheom-Soon; IM, Jin-Sung; AHMAD, Zahir Uddin; YANG, Yang; HOLNESS, Marc, (hereinafter, "ASSIGNOR") by

Name: Electronics and Telecommunications Research Institute
Address: 161 Gajeong-dong, Yuseong-gu, Daejeon-city, 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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relating to International Patent Application PCT/JP _____ and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on ; (Insert date of execution of application, if not concurrent)

(b) filed on ,

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))

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REEL: 025078 FRAME: 0441

a) 木 田 洋 9 June 2010 nahyemi
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7) Marc Holness 21 Jun 2010 nahyemi
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