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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4594685

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|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the MISSPELLING OF THE INVENTOR'S NAME FROM JAE YOUNG KIM TO JAE HEUNG KIM previously recorded on Reel 036625 Frame 0721. Assignor(s) hereby confirms the CORRECT SPELLING OF THE INVENTOR'S NAME IS JAE HEUNG KIM. |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------|----------------|
| JAE HEUNG KIM | 02/21/2013 |

RECEIVING PARTY DATA

| | |
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| City: | DAEJEON |
| State/Country: | KOREA, REPUBLIC OF |
| Postal Code: | 305-700 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|----------------------------|----------|
| Application Number: | 14858858 |

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Address Line 2: KEVIN J. CANNING
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| ATTORNEY DOCKET NUMBER: | ES7-112DV |
| NAME OF SUBMITTER: | KEVIN J. CANNING |
| SIGNATURE: | /Kevin J. Canning/ |
| DATE SIGNED: | 09/14/2017 |

Total Attachments: 4

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3537428

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JAE YOUNG KIM | 02/21/2013 |
| RECEIVING PARTY DATA | |
| Name: | ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE |
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| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14858858 |
| CORRESPONDENCE DATA | |
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| NAME OF SUBMITTER: | MICHAEL MALONE |
| SIGNATURE: | /Michael Malone/ |
| DATE SIGNED: | 09/22/2015 |
| Total Attachments: 2 | |
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| source=ES7-112DV Assignment#page2.tif | |

Client Reference No. : IP20121216 (ETK110012US E-Sang)

ASSIGNMENT

I/We, KIM, Jae Heung, in consideration of One Dollar and other valuable consideration paid to me/us by

Electronics & Telecommunications Research Institute having its principal place of business at 161 Gajeong-dong, Yuseong-gu, Daejeon, REPUBLIC OF KOREA,

the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

Electronics & Telecommunications Research Institute,

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

**METHODS OF MANAGING TERMINAL PERFORMED IN BASE STATION AND
TERMINAL**

described in an application

- executed by me/us of even date herewith and about to be filed
 Serial No _____, filed on _____


in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon.

And I/we agree, for myself/ourselves and my/our executor(s) and administrator(s), with said assignee and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said assignee, with specifications and claims in such form as shall be approved by the counsel of said assignee and to vest and confirm in said assignee, its successors and assigns, the legal title to all such patents.

And I/we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said assignee, its successors and assigns.

And I/we do further hereby grant the attorneys/agents of Nelson Mullins Riley and Scarborough, LLP, the power to insert on this Assignment the filing date and/or application number of said application.

Client Reference No. : IP20121216 (ETK110012US E-Sang)

By: 

(Name) KIM, Jae Heung

Date: February 21, 2013

Witness: _____
(Name)

Date