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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3697810

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| | | Name | | | Execut | tion Date |
| SUNG HYUN MOON | | | | 12/23/20 |)15 | |
| YOUNG JO KO | | | | 12/23/20 |)15 | |
| JAE YOUNG AHN | | | | | 12/23/20 |)15 |
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| | | KOREA, REPUBLIC OF | | | | |
| State/Country: | | A, REPUBLIC | OF Number | | | |
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PATENT REEL: 037499 FRAME: 0338 PR20130594USa (E-sang ET130046PCT-US)

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

| Title of Invention | COMMUNICATION METHO SYSTEM ON BASIS OF CARE | D IN WIRELESS COMMUNICATION HER AGGREGATION | | | |
|---------------------------|---|--|--|--|--|
| Declaration | PCT/KR2014/006342 filed of The above-identified application we I believe that I am the original or a application. I hereby acknowledge that any | or or PCT international application number | | | |
| Assignment | or both. NOW, THEREFORE, in consideration of the sum of one dollar (\$1), the receipt whereof is acknowledge, and other good and valuable consideration, I, by these presents do sell, assign and transfer unto said assignee(s) ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE 218, Gajeong-ro, Yuseong-gu, Daejeon 305-700, Republic of Korea and the heirs, successors, assigns and legal representatives of the assignee(s) the full and exclusive right to the said invention in the United States and in its territorial possessions and in any and all foreign countries any and all improvements thereof, the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States. I hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said assignee(s), of the entire right, title, and interest in and to the same, for his sole use and for the use of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made. I agree promptly upon request of the assignee(s), its heirs, successors, assigns and legal representatives of the assignee(s) to communicate any facts known to it respecting the patent and the invention set forth therein, and to execute and deliver without further compensation any power of attorney. Assignment, application, whether original, continuation, divisional or reissue, or other papers that may be necessary. I hereby covenant that no assignment, sale agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale. I further covenant that assignee(s) will, upon its request, be provided promptly with all partment facts and documents relating to said invention and said Letters Patent and legal | | | | |
| | equivalents as may be known and accessible to me and will testify as to the same in any litigation related thereto and will promptly execute and deliver to assignee(s) or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof. | | | | |
| Legal Name Of Inventor | Inventor Name (First Middle LAST): | MOON, Sung Hyun | | | |
| | Inventor Signature: | 1 Ch | | | |
| | Date: | December 23, 2015 | | | |
| A total of | supplemental sheet(s) are attached | harsta for additional invariant if any | | | |

L A total of _____supplemental sheet(s) are attached hereto for additional inventors, if any,

PR20130594USa (E-sang ET130046PCT-L/S)

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

| Legal Name Of Joint Inventor, If Any Legal Name Of Joint Inventor, If Any | loventor Nama (First Middle LAST) | KO, Yawag Ja |
|--|--------------------------------------|-------------------|
| | inventor Signature | m |
| | Oate | Gecember 23, 2015 |
| | Inventor Name (First Middle LAST) | ÀHN, bu Yangi |
| | imentor Signature: | MA C |
| | Onte | December 23, 2018 |
| | × | |
| Legal Name Of Joint | inventor Name (First Middle LAST) | KIM. Cheul Soon |
| inventor, if Any | Inventor Signature | ねをも |
| | Døter. | December 23, 2015 |
| | | |
| Legal Name Of Joint Inventor, H Any | Inventor Name (First Middle LAST) | SHEN, Joon Woo |
| | inventor Signature. | A2 22-9 |
| | Date: 1 | December 23, 2015 |

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PATENT REEL: 037499 FRAME: 0340

RECORDED: 01/15/2016