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| S1 At 12 | me and address of AAS & HALSEY LLI ention: <u>Gene M.Ga</u> 01 New York Ave., l ashington, D.C. 200 | P <u>arner II</u> N.W., Suite 700 | · | ndence concern Our Docket: | | should be mailed: |
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PATENT REEL: 015454 FRAME: 0624

U.S. ASSIGNMENT

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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) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S))

SAMSUNG ELECTRONICS CO., LTD 416, Maetan-Dong, Paldal-Gu Suwon-City, Kyungki-do 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 executed on even date herewith or, if not so execut | | pplication for Letters Patent of the United States wa |
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| (a) executed on | ; (Insert date of execution | on of application, if not concurrent) |
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| IN WITNESS WHEREOF, the undersigned inve (Typed Name & Signature of Inventor(s)) | entor(s) has (have) affixed his/her/their (Date) | r signature(s). (Typed Name & Signature of Witness(es)) |
| () Chan | August 28,2003 | (-), -), |
| Jun Eui CHANG | | |
| K.H. CHI | August 28, 2013 | |
| Kyung Ho CHAI | | |

PATENT REEL: 015454 FRAME: 0625

RECORDED: 06/10/2004