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FORM PTO-1595

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 Name and Address of receiving party(ies): SAMSUNG ELECTRO-MECHANICS CO., LTD. 314 Maetan3-dong, Yeongtong-gu, Suwon-si Gyeonggi-do 443-743, Republic of Korea Nature of conveyance: X Assignment Security Agreement Other: Execution Date(s): October 10, 2006 Application number(s) or patent number(s): This document is being filed together with a new application. 	
X Assignment Merger Security Agreement Change of Name Other: Execution Date(s): October 10, 2006 4. Application number(s) or patent number(s):	113013 U.S. PTO 117546879
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OR This document is being filed after filing of the application: (a) Patent Application No(s)., filed; or (b) Patent No(s)., issued.	
5. Name and address of party to whom correspondence concerning document should STAAS & HALSEY LLP Our Docket: 1937.1026 Attention: John C. Garvey 1201 New York Ave., N.W., Suite 700 Washington, D.C. 20005	be mailed:
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PATENT

REEL: 018417 FRAME: 0724

U.S. ASSIGNMENT

Docket No.

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))

ROTARY INPUT APPARATUS

SAMSUNG ELECTRO-MECHANICS CO., LTD. 314 Maetan3-dong, Yeogtong-gu, Suwon-si Gyeonggi-do 443-743, 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 (Title of Invention)

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) Any registered attorney of STAAS & HALSEY LLP, 1201 New York (b) filed on ___ Avenue, N.W., Suite 700 Washington, D.C. 20005 (202/434-1500) is hereby authorized to insert in (b) the specified data, when known. and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)"). 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)) (Typed Name & Signature of Witness(es) 2006.10.10 Soung Han Pack 142692 Eung-Cheon KANG

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

RECORDED: 10/13/2006

PATENT REEL: 018417 FRAME: 0725