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Attorney Docket No.: 678-393

1. Name of conveying party(ies):

Dong-In Ha  
Seong-Joon Kim  
Dong-Hwan Kim

Additional name(s) of conveying party(ies) attached?  
 yes  no

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

Name: Samsung Electronics, Co., Ltd.

Internal Address:

Street Address: 416, Maetan-dong, Paldal-gu  
Kyungki-do

City: Suwon-city

Country/State/Zip: Korea

Additional names and addresses attached?  yes  no

3. Nature of Conveyance

Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: 11/23/99

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

If this document is being filed together with a new application, the execution date of the application is 11/23/99;

A. Patent Application No.(s)  
N/A

B. Patent No.(s):  
N/A 09/447918

Additional numbers attached?  Yes  No

11/23/99  
09/447918  
U.S. PTO

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Paul J. Farrell, Esq.  
Internal Address: Dilworth & Barrese  
Street Address: 333 Earle Ovington Boulevard  
City: Uniondale State: NY ZIP: 11553

6. Total number of applications and patents involved: [1]

7. Total fee (37 C.F.R. 3.41) ..... \$ 40.00  
 Enclosed  
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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Paul J. Farrell, Esq.  
Name of Person Signing  
Reg. No. 33,494

*Paul J. Farrell*  
Signature

November 23, 1999  
Date

Total number of pages including cover sheet, attachments and document [3]

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12/15/1999 TT011 00000230 09447910

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PATENT  
REEL: 010433 FRAME: 0734

# ASSIGNMENT

DOCKET NO. 678-393 (P8638)

AS A BELOW NAMED INVENTOR, I, and each of us, individually hereby declare that: IN CONSIDERATION of the sum of TEN (\$10.00) dollars or the equivalent thereof, and other good and valuable consideration, the receipt of which from the hereinafter named Assignee is hereby acknowledged, I do hereby sell, assign and forever grant and convey unto:

**ASSIGNEE:** Samsung Electronics Co., Ltd.

**ADDRESS:** 416, Maetan-dong, Paldal-gu, Suwon-city, Kyungki-do, KOREA

Who is my Assignee, and to the successors and assigns of my Assignee, all my right, title and interest, in and for the United States of America and all other countries, including all rights of priority, in and to the invention entitled:

**TITLE:** AI ANTENNA DRIVING DEVICE AND METHOD FOR CONTROLLING THE SAME

Invented by me (if only one inventor is named below) or us (if more than one inventor is named below) and described in an application for a United States patent the specification of which is either attached hereto or otherwise accompanies this Assignment or indicates an attorney docket no. 678-393 (P8638), or is more particularly identified as:

- executed on even date herewith, or
- Serial No. \_\_\_\_\_ filed in the U.S. Patent & Trademark Office on \_\_\_\_\_, or
- executed on \_\_\_\_\_

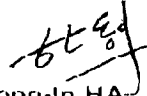
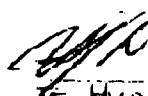




and in and to all United States patents which may be granted thereon and therefore, and in and to all certificates of corrections, divisions, continuations, continuations-in-part, reissued and re-examined patents, and to any extensions thereof, said interest being the entire ownership of the patent when granted, to be held and enjoyed by said **SAMSUNG ELECTRONICS CO., LTD.**, my Assignee, its successors, assigns or other legal representatives, to the full end of the term, terms, or any extension or renewal thereof, for which said patent or patents may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment, sale and conveyance had not been made;

AND I hereby covenant and agree to sign and execute any further documents or instruments which may from time-to-time be either necessary, lawful, proper or requested by the Assignee, in the prosecution of the above-named application or in the preparation and prosecution of any certificate of correction, division, continuation, continuation-in-part, reissue, re-examination, in any amendment, extension, or interference proceeding, whether administrative or judicial, or otherwise, to secure the title hereto in said Assignee;

AND I do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Patent or Patents to the Assignee, and I hereby appoint as my, or our attorney, and authorize and request **Peter G. Dilworth, Reg. No. 26,450 and Paul J. Farrell, Reg. No. 33,494**, to insert on this Assignment any further identification or to complete such identification which may be either necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

And I further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE 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.

IN WITNESS WHEREOF, I and we have set our hands and seals on the dates written beside my and our respective names:

<b>INVENTOR(S)</b>	<b>Date Signed</b>	<b>Witness(es)</b>
1)  Dong-In HA	(Seal) 23 November 1999	 Si-Hye HEO
2)  Seong Joong KIM	(Seal) 23 November 1999	 Si-Hye HEO
3)  Dong Hwan KIM	(Seal) 23 November 1999	 Si-Hye HEO
4) _____	(Seal) _____	_____
5) _____	(Seal) _____	_____
6) _____	(Seal) _____	_____