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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
**Eung-sun KIM, Myeon-kyun CHO, Ki-ho KIM,
Chong-dae YIM, Kyu-min KANG, Gi-hong IM**

Additional name(s) of conveying party(ies) attached? No

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

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

Internal Address:

Street Address: **416 Maetan-dong, Paldal-gu,**

City: **Suwon-city, Kyungki-do, REPUBLIC OF KOREA**

Additional name(s) & address(es) attached? **No**

3. Nature of conveyance:

 Assignment Merger
Security Agreement Change of Name
Other

Execution Date: October 19, 1999, November 15, 1999 and
November 18, 1999

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:
A. Patent Application No.(s)
09/417,687

Additional numbers attached? **No**

B. Patent No.(s)

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

Name: **Eugene M. Lee**

Internal Address: **KILE, MCINTYRE, HARBIN & LEE**

Street Address: **1101 Pennsylvania Avenue, N.W., Suite 800**

City: **Washington**, State: **D.C.** ZIP: **20004**

6. Total number of applications and patents involved: **One**

7. Total fee (37 C.F.R. § 3.41). \$40.00 **(E)**

Xpreviously paid on 1/3/2000

Authorized to be charged to deposit account

8. Deposit account number: **11-0853**

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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.

Eugene M. Lee
Name of Person Signing

Signature

May 18, 2000
Date

Total number of pages including cover sheet, attachments, and document: **2 pages attached, incl. cover**

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

PATENT
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ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto **SAMSUNG ELECTRONICS CO., LTD.**

name and address of assignee

416 Maetan-dong, Paldal-gu, Suwon-city, Kyungki-do, Republic of Korea

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to his invention relating to

title of invention

APPARATUS FOR RECEIVING DIGITAL SUBSCRIBER LINE SIGNAL HAVING RESILIENCE TO HAM RADIO INTERFERENCE AND MEHTOD THEREFOR

as set forth in his United States Patent Application

check one

executed concurrently herewith

executed on _____

Serial No. _____ Filed _____

in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby grants the firm of KILE, MCINTYRE, HARBIN & LEE the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

NAMES AND SIGNATURES OF INVENTORS		
Name: Eung-sun KIM	Signature: <i>[Signature]</i>	Date: 15/11/1999
Name: Myeon-kyun CHO	Signature: <i>[Signature]</i>	Date: 18/11/1999
Name: KI-ho KIM	Signature: <i>[Signature]</i>	Date: 15/11/1999
Name: Chong-dae YIM	Signature: <i>[Signature]</i>	15/11/1999
Name: Kyu-min KANG	Signature: <i>[Signature]</i>	99. 10. 19
Name: GI-hong IM	Signature: <i>[Signature]</i>	Date: 10/19/99
NAMES AND SIGNATURES OF WITNESSES		
Name:	Signature:	Date:
Name:	Signature:	Date:

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