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MARKS:

Attorney Docket No.: 678-752 (P9924)

1. Name of conveying party(ies): 5-10-02
**Hyun-Woo LEE, Byung-Jae KWAK, Sung-Jin KIM,
Ju-Ho LEE, Yong-Suk LEE, Hyeuk-Jong LEE**
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: 10/05/2001, 10/05/2001, 10/05/2001,
10/05/2001, 10/05/2001, 10/05/2001.

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)
09/972,814 filed October 5, 2001
B. Patent No.(s):
N/A
Additional numbers attached? Yes No

5. Name and address of party to whom
correspondence concerning document should be
mailed:
Name: Paul J. Farrell, Esq.
Internal Address: Dilworth & Barrese, LLP
Street Address: 333 Earle Ovington Boulevard
City: Uniondale State: NY ZIP: 11553

6. Total number of applications and patents' involved:
11
7. Total fee (37 C.F.R. 3.41) \$ 40.00
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8. Deposit account number: 04-1121
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Paul J. Farrell, Esq. Paul J. Farrell May 2, 2002
Name of Person Signing Signature Date
Reg. No. 33,494 Total number of pages including cover sheet, attachments and document 9

OMB No. 0651-0011 (exp. 4/84)

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January 10, 2002

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Attorney Docket No.: 678-752 (P9924)

1. Name of conveying party(ies): 1-28-02
**Hyun-Woo LEE, Byung-Jae KWAK, Sung-Jin KIM,
Ju-Ho LEE, Yong-Suk LEE, Jong-Hyeuk LEE**
Additional name(s) of conveying party(ies) attached?
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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

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 Security Agreement Change of Name
 Other _____
Execution Date: 10/05/2001, 10/05/2001, 10/05/2001,
10/05/2001, 10/05/2001, 10/05/2001.

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09/972,814 filed October 5, 2001
Additional numbers attached? Yes No

B. Patent No.(s):
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Name: Paul J. Farrell, Esq.
Internal Address: Dilworth & Barrese, LLP
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
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8. Deposit account number: 04-1121
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Paul J. Farrell, Esq. Paul J. Farrell January 10, 2002
Name of Person Signing Signature Date
Reg. No. 33,494 Total number of pages including cover sheet, attachments and document [3]

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10-22-2001



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KS: Attorney Docket No.:678-752 (P9924)

1. Name of conveying party(ies):
Hyun-Woo LEE
Byung-Jae KWAK
Sung-Jin KIM
Ju-Ho LEE
Young-Suk LEE
Jong-Hyeuk LEE
Additional name(s) of conveying party(ies) attached?
 yes no

10/05/01

2. Name and address of receiving party(ies):
Name: Samsung Electronics, Co., Ltd.
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: October 5, 2001

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 10/09/01
A. Patent Application No.(s)
B. Patent No.(s):
Additional numbers attached? Yes No

09/972814

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Paul J. Farrell, Esq.
Internal Address: Dilworth & Barrese, LLP
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
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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. Signature Date 10/05/01
Name of Person Signing Reg. No. 33,494
Total number of pages including cover sheet, attachments and document [3]

Paul J. Farrell

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10/19/2001 GTON11 00000105 09972814
01 FC:581 40.00 DP

JCS96 U.S. PTO
09/972814
10/05/01

ASSIGNMENT

DOCKET NO. 678-752 (P9924)

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: TSTD APPARATUS AND METHOD FOR A TDD CDMA MOBILE COMMUNICATION SYSTEM_

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. 678-752 (P9924), 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 _____



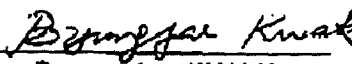
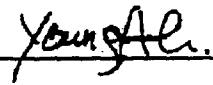
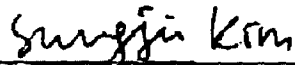
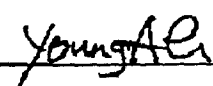
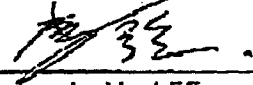
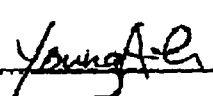

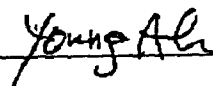
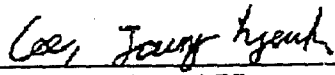
and in and to all United States patents which may be granted thereon and therefore, and in and to all certificates of corrections, divisions, continuations, continuations-in-part, reissued and re-examined patents, and to any extensions thereof, said interest being the entire ownership of the patent when 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. 28,450 and Paul J. Ferrell, 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:

	<u>INVENTOR(S)</u>		<u>Date Signed</u>	<u>Witness(es)</u>
1)	 Hyun-Woo LEE	(Seal)	7 October 2001	
2)	 Byung-Jae KWAK	(Seal)	7 October 2001	
3)	 Sung-Jin KIM	(Seal)	7 October 2001	
4)	 Ju-Ho LEE	(Seal)	7 October 2001	
5)	 Yong-Suk LEE	(Seal)	7 October 2001	
6)	 Hyeuk-Jong LEE	(Seal)	7 October 2001	