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	he Honorable Commissioner of Patents and Tradellians.	J original docum	nents or copy thereof.
1.	Name of conveying party(ies):		
	Chang-Jin YANG, Pyong-Yong SEONG, Seong-Sin JOO Sang-Hoon YOO and Tae-Kyung KIM	OF JUNG, Jun	g-Eon SEO, Yong-Jae LEE,
2.	Name and address of receiving party(ies): DEC 2	8 1989 🗒	1200 1
	Samsung Electronics Co., Ltd. 416, Maetan-dong, Paldal-gu, Suwon-city, Kylingki- Republic of Korea	20	
3.	Nature of conveyance:		
	X Assignment Mergary Security Agreement Chan Other:	er ge of Name	
	Execution Date(s): June 3 and 23, 1999		

4. Application number(s) or patent number(s): This document is being filed together with a new application: The execution date(s) of the application is/are: (b) The title is: \*\*\* OR \*\*\* This document is being filed after filing of the application: Patent Application No(s). 09/275,814, filed March 25, 1999; or (a) Patent No(s). \_\_\_\_\_, issued \_\_\_\_\_. (b) Name and address of party to whom correspondence concerning document should be mailed: 5. Our Docket: 1316.1020/MDS STAAS & HALSEY LLP Attention: Michael D. Stein 700 Eleventh Street, N.W., Ste. 500 Washington, D.C. 20001 Total number of applications and patents involved: \_\_\_\_1\_\_ 6. Total fee (37 CFR 3.41)..... \$ 40.00 7. Authorized to be charged to deposit account. Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account) 8. (Attach duplicate copy of this page if paying by deposit account) Statement and signature. 9. To the best of my knowledge and belief, the foregoing information is trug and correct and any attached copy is a true copy of the original document. Michael D. Stein, Reg. No. 37,240 Name of Person Signing Total number of pages including cover sheet, attachments and document: 6

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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

(Title of Invention)

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relating to International Patent Applic States was executed on even date h	ation PCT// and/or for which application for Letters Patent of the United erewith or, if not so executed, was:
(a) executed on	; (Insert date of execution of application, if not concurrent)
(b) filed on <b>March 25, 1999</b> ,	Any registered attorney of STAAS & HALSEY ILP, 700
Serial No. <b>09/275,814</b> ;	Eleventh Street, N.W., Washington, D.C. 20001 (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))

(Date)

(Typed Name & Signature of Witness(es))

(Chang-Jin Yang

Chang-Jin Yang

Tune 3, 1999

Pyong-Yong SEONG

3)

Seong-Sin Joo

4)

SOD YUL JUNG

Soo-Yul JUNG

Jung-Eon SEO

Jung-Po, 1999

Jung-Fon SEO

PATENT REEL: 010458 FRAME: 0169

6)	Yong-Jae Lee Yong-Jae LEE	Jun 3, 1999	
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8)	Tare - Kycing Kim Tae-Kyung KIM	June 23, 1998	
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S&H 9/5			1010811	80 .	
To the	Honorable Commis	sioner of Patents and 1.	1010011	103 \d	ocuments or copy thereof.
DEC 2	Chang-Jin YAI Jang-Hoon YO Name and add Samsu 416, M Repub	O and Tae-Kyung K ress of receiving pa ng Electronics Co., laetan-dong, Paldal- ic of Korea	TIM rty(ies): Ltd. (A) gu, Suwoh/dity/FKOL	NUL CASE	Jung-Eong SEO, Yong-Jae LEE,
	Execution Date	Other:e(s): June 3 and 23			
4.	This documen	ecution date(s) of the is:	umber(s): her with a new appli he application is/are: 		
	(a) Patent		filing of the applicati 09/275,814, filed <u>Ma</u> , issued		
5.	STAA! Attent 700 El	ress of party to whom is a HALSEY LLP from: Michael D. Ste eventh Street, N.W. agton, D.C. 20001	in	concerning docume Our Docket: 1316	ent should be mailed: 5.1020/MDS
6.	Total number	of applications and	patents involved:	1	
7.	Total fee (37 (	CFR 3.41) Enclosed Authorized to be c	\$ 40.00 harged to deposit ac	ccount.	
8.	Deposit Accou	int No.: 19-3935 ate copy of this pag	(Any underpayment e if paying by depos	is authorized to be it account)	charged to this Deposit Account)
9.	Statement and To the best of copy is a true	signature. my knowledge and copy of the original	belief, the foregoing document.	information is true	e and correct and any attached
		tein, Reg. No. 37,2 Person Signing Total		Signature cluding cover sheet	Date , attachments and document: 2
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IN CONSIDERATION of the sum of One Deltar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (heroinefter, "ASSIGNOR") by

(insert Namela) & Address(es) of ASSIGNEE(8))

Samsung Electronics Co., Ltd. 416, Maetan-dong, Paidal-gu, Suwon-city, Kyungki-do Republic of Korea

here	Dinafter, "ASSIGNEE"), the receipt of which is transfere to ASSIGNEE the entire and exclusive	hereby soknowledged, the undersigned ASSKINOR hereby sells, easigns a right, title and interest to the invention entitled
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relati Stati	ting to internetional Patent Application PCT/	and/or for which application for Letters Patent of the United not so executed, was:
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(b)	flied on Merch 26, 1999,	Any registered attorney of STAAS & HALSEY UP, 700
	Serial No. 09/275,814;	Eleventh Street, N.W., Washington, D.C. 20001 (202/434- 1500) is hereby authorized to insert in (b) the specified date, when known.

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The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acre which the ASSIGNEE may deem necessary, desirable or expedient, for assuring, 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 decisred in relation to same, such acre to include but not be limited to executing all papers, including separate assignments and decisrations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has thevel affixed his/her/their eignature(s).

	(Typed Name & Signature of Inventoriel)	1 stages	(Typed Name & Signature of Witness(es))
1)	Chang-Jin Yang	June 3, 1999	
2)	k 1.a .ma	June 3, 1999	
	Jeorge -5:4 000	June 23, 1999	
4)_	SOD YUL JUNG	June 3, 1PPP	
8)′_	Joans Lon Seo	June 3, 1999	

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6) Yong-Jae Lee Yong-Jae LEE	Jus 3, 1999	
71. JANG-HOW TOO Jang-Hoon YOO	June 23, 1999.	
Jang-Hoon YOO  8) Tan-Kyung Kim  Tan-Kyung Kim	June 23, 1999.	
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