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Name of conveying party(ies):	2. Name and address of receiving party(ies):
Youn-Tae SHIN and Yong-Myoung KIM	Name: SAMSUNG ELECTRONICS CO., LTD.
Additional name(s) of conveying party(ies) attached? [] Yes [X] No 3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name Other: Execution Date: OCTOBER 30, 1997; OCTOBER 27, 1997; RESPECTIVELY. 4. Application number(s) or patent number(s):	Address: 416, MAETAN-DONG, PALDAL-GU SUWON-CITY, KYUNGKI-DO KOREA Additional name(s) & address(es) attached? [] Yes [X] No
If this document is being filed together with a new application, th OCTOBER 27, 1997, RESPECTIVELY A. Patent Application No.(s)	e execution date of the application is: OCTOBER 30, 1997: B. Patent No.(s)
5. Name and address of party to whom correspondence concerning document should be mailed:	ched? [] Yes [X] No 6. Total number of applications and patents involved: 1
Name: NORMAN H. STEPNO Address: Burns. Doane. Swecker & Mathis. L.L.P. Post Office Box 1404 Alexandria. Virginia 22313-1404	7. Total fee (37 CFR 3.41): \$40.00 [X] Enclosed [X] Authorized to be charged to deposit account, if necessary 8. Deposit account number: 02-4800
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HEET 100789358 Attorney's Docket No. 014625-420 To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Name: SAMSUNG ELECTRONICS CO Youn-Tae SHIN Address: 416, MAETAN-DONG, PALDA Additional name(s) of conveying party(ies) attached? [] Yes [X] No SUWON-CITY, KYUNGKI-DO 3. Nature of conveyance: KOREA [X] Assignment Merger [] Security Agreement [] Change of Name Other: _ Additional name(s) & address(es) attached? [] Yes [X] No Execution Date: OCTOBER 30, 1997; OCTOBER 27, 1997; RESPECTIVELY. 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: OCTOBER 30, 1997; OCTOBER 27, 1997, RESPECTIVELY B. Patent No.(s) A. Patent Application No.(s) Additional numbers attached? [] Yes [X] No 5. Name and address of party to whom correspondence concerning 6. Total number of applications and patents involved: 1_ document should be mailed: Name: NORMAN H. STEPNO 7. Total fee (37 CFR 3.41): \$40.00 Address: Burns, Doane, Swecker & Mathis, L.L.P. [X] Enclosed Post Office Box 1404 [X] Authorized to be charged to deposit account, if necessary Alexandria, Virginia 22313-1404 8. Deposit account number: \$270\$/1998 TDADE1 00000004 09126717 02-4800 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct hed copy is a true copy of the original document. July 31, 1998 Date NORMAN H. STEPNO Signature Name of Person Signing otal number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:

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Attorney's Docket No.

ASSIGNMENT (JOINT)

	THIS ASSIGNMENT, by	Youn-Tae	SHIN	, Yong-Myoung KIM
				nd
residing at Kyungki-		y, Korea		(wonseon-gu, Suwon-city,
		, and		
(hereinafter	referred to as "the Assign	ors"), respect	ively, witness	eth:
REFRIGI	WHEREAS, the Assignor			w and useful improvements in
application declaration	to be filed herewith; [X]	which is a n rewith prior t	on-provisional o filing of app	tes, [] which is a provisional application having an oath or lication; [] bearing Application; and
	WHEREAS, Samsung	Electronic	s Co., Ltd.	
a corporation	on duly organized under and	pursuant to	the laws of	Korea and
having its p Kyungki-d	rincipal place of business a do, Korea	t <u>416, Maet</u>	an-dong, Pa	ldal-gu, Suwon-city,
in and to sa and interest United Stat	iid inventions, the right to f in and to any applications,	ile application including pro ing priority to	is on said inve ovisiona! applic o said applicat	he entire right, title, and interest ntions and the entire right, title ations for Letters Patent of the ion, and in and to any Letters rand thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including

Page 1 of 2

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Attorney's	Docket No.	014625-420

provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby authorize and request the attorneys of Burns, Doane, Swecker & Mathis, L.L.P. of Alexandria, Virginia, to insert in the spaces provided above the filing date, application number, and attorney docket number of said application when known.

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date	10/30/77	Name of Assignor	S G
Date	10/21/91	Name of Assignor	Youn-Tae SHIN Yong-Myoung KIM
			Tong Myoung NIM
Date		Name of Assignor	
Date		Name of Assignor	



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

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OCTOBER 28, 1998

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KIMBERLY WHITE, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

Cornet Assign Que

RECORDED: 07/31/1998

HURNS, DOANE, SWECKER & MATHIS, LLP.

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