

R. FORM PTO-1596 L'S DEPARTMENT OF COMMERCE 1-31-92 Patent and Trademark Office **DOCKET NO.:** P-179 101610165 To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto: 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): 1.29.01 Seung Woog CHOI Name: LG Electronics Inc. Internal Address: Additional name(s) of conveying party(ies) attached? Yes X No 3. Nature of conveyance: X Assignment Merger Street Address: 20, Yoido-Dong, Yongdungpo-Ku Security Agreement Change of Name City: Seoul Other State/Country: KOREA ZIP: Execution Date: January 26, 2001 Additional name(s) & address(es) attached? No 4. Application number(s) or patent number(s): If the document is being filed together with a new application, the execution date of the application is: January 26, 2001 A. Patent Application No(s).: B. Patent No(s) Filed: Additional numbers attached? Yes 6. Total number of applications and patents involved: 5. Name and address of party to whom correspondence concerning document should be mailed: \$40.00 7. Total fee (37 C.F.R. 3.41)..... Name: FLESHNER & KIM, LLP X Enclosed (Check No. 10151) Internal Address: Authorized to be charged to deposit account 8. Deposit account number: Street Address: P. O. Box 221200 16-0607 ZIP: 20153-1200 State: VA City: Chantilly DO NOT USE THIS SPACE To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of 9. Statement and signature. the original document. January 29, 2001 Anthony H. Nourse, Reg. No. 46,121 Name and Registration No. of Person Signing Total number of pages including cover sheet:

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ASSIGNMENT

In consideration of the premises and other good and valuable cor- and, objects.	neideration in band paid, the receipt and sufficiency of which is hereby acknowledged, the
(f) _Seung Woog CHOI	(4)
(?)	(5)
(1)	<u>(6)</u>
who have made a certain new and useful invention, hereby add, usign w	
_LG ELECTRONICS INC.	
20. Yoidre Dang, Yongdungpo-Ku, Scool, Kares	
invention analod	ntire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the
	DUPLEX MODE USING DIRECT MEMORY ACCESS LOGIC
the black of an Armer for United States Letters Parent was filed	on, and identified by United States Serial No or
(b) For which an application for United States Letters Patent was exce	January 26, 2001
may be granted therefor and for that claim priority thereof, and the right to all benefits a ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and become for act on behalf of each ASSIGNEE;	mirrissiciner of Parents and Trademarks to issue any and all United States Letters Parent which I all asternations, divisions, relatives, substitutes, communitions, or continuation-mark under the International Convention for the Protection of Industrial Property to the said legal representatives; the undersigned agree that the attorneys of record in said application shall legal representatives; the undersigned agree that the attorneys of record in said application shall
(NIT) the undersigned hereby agree to transfer a like interes divisional, missaued or extended Letters threat of the United States, upofurther terminaristics, in and to say improvements, and applications for the rise and ASSIGNIEF, its successors, assigns and legal representatives transferred.	st, and to render all necessary assistance in making application for and obtaining original, on request of the said ASSKINEE, its successors, assigns and legal representatives, and without on request of the said ASSKINEE, its successors, assigns and legal representatives, and without or parent based thereon, growing out of or related to the said invention; and to execute any papers a parent based thereon, growing out of or related to the said invention; and to the invention hereby a deemed executed to ASSIGNEE's full protection and title in and to the invention hereby
SIGNED on the dates indicated aside our algorithms:	DATE SIGNED
1) Name Seung Wood CHO!	2001,01,26
2) Name	
Name:	
Name:	
S) Name	
6) Name:	

PATENT REEL: 011492 FRAME: 0611