3/18/W

04-16-2002

MAR 2002

Form PTO-1595 (modified)	Q6735  EET U.S. DEPARTMENT OF COMMERC
OMD N= 0051 0027	U.S. Patent and Trademark Office
To the Honorable Commissioner of a across and 1.0	22056541 .ned original documents or copy thereof.
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):
Kwang-Chul KIM	SAMSUNG ELECTRONICS CO., LTD. 416, Maetan-dong, Palcal-gu, Suwon-city, Kyungki-do, Republic o Korea
Additional name(s) of conveying party(ies) attached?  Yes	No
3. Nature of conveyance:	
☑ Assignment ☐ Merger	10(009772
☐ Security Agreement ☐ Change of Name	[0[004710
Other	
Execution Date: January 15, 2002	Additional name(s) & address(es) attached? ☐ Yes ☑ No
4. Application number(s) or patent number(s):	
If this document is being filed together with a new ap	plication, the execution date of the application is:
A. Patent Application No.(s) 10/009,772	B. Patent No.(s)
Additional numb	pers attached?
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
SUGHRUE MION, PLLC	7. Total fee (37 CFR 3.41): \$40.00
2100 Pennsylvania Avenue, N.W.	☑ Enclosed. Please charge any underpayment in connection
Suite 800	with this Assignment to Deposit Account No. 19-4880.
Washington, D.C. 20037-3213	☐ Authorized to be charged to deposit account
	8. Deposit account number: 19-4880
	(Attach duplicate copy of this page if paying by deposit account)
	OT USE THIS SPACE
9. Statement and signature.  To the best of my knowledge and belief, the foregoing original document.	information is true and correct and any attached copy is a true copy of th March 18, 2002
	No. 23,063 Date
, , , , , , , , , , , , , , , , , , ,	
	ding cover sheet, attachments, and documents: 2  ded with required cover sheet information to:
	oner of Patents & Trademarks
	Box Assignment
	ashington, D.C. 20231

**PATENT** REEL: 012780 FRAME: 0977

## **ASSIGNMENT**

Whereas, I/We, KIM, Kwang-Chul of 211-16 Chamshilbon-dong, Songpa-gu, Seoul 138-229 Rep. of Korea

hereinafter called assignor(s), have invented certain improvements in

APPARATUS AND METHOD FOR ACHIEVING SYMBOL TIMING AND FREQUENCY SYNCHRONIZATION TO ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING SIGNAL

and executed an application for Letters Patent of the United States of America therefor on

15 January 200<sup>2</sup>; and

Whereas, SAMSUNG ELECTRONICS CO., LTD. of 416, Maetan-dong, Paldal-gu, Suwon-city, Kyungki-do, Republic of Korea (assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We the above-named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. § 119, and I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request my attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC of 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3213 to insert here in paretheses (Application number 10/009,772 , filed 17 December 2001 ), the filing date and application number of said application when known.

Date:	15 January 2002	s/	Jan St. 43h
			KIM, Kwang-Chul
Date:		s/	
Date:		s/	

(Legalization not required for recording but is prima facic evidence of execution under 35 U.S.C. § 261) 3/92

PATENT RECORDED: 03/18/2002 REEL: 012780 FRAME: 0978