( HEALTH (ID))	92(18-)+884-8((1-88))#-184(8-(4))#-184(1-18)	Q75898		
(Rev. 05/01)		T U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office		
To the Director of the U.S. Patent and	U2509988 in allacined	original documents or copy thereof.		
1. Name of conveying party(ies):	2. Name and address of			
Yong-sik KWON	SAMSUNG ELECTRON	NICS CO., LTD.		
Jin-hee JEONG	416, Maetan-dong, Palda	al-gu,		
Jung-jin KIM	Suwon-city,	22.2		
07/18/03	Gyunggi-do, Korea	900		
01/101		08306		
Additional name(s) of conveying party(ies) attached?  Yes	No	J		
3. Nature of conveyance:				
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Execution Date: JUly 2, 2003	Additional name(a) P. adduc	org(as) attacked 9 D Van D N		
4. Application number(s) or patent number(s):	Additional name(s) & addre	ess(es) attached?  Yes  No		
If this document is being filed together with a new app	lication, the execution date of	the application is: July 2, 2003		
A. Patent Application No.(s)	B. Patent No.(s)			
Not yet assignment	Not yet assigned			
		37		
Additional numbers 5. Name and address of party to whom correspondence		No ications and patents involved:		
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SUGHRUE MION, PLLC	7. Total fee (37 CFR 3.4	¥1): \$40.00		
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**PATENT** 

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## **Assignment**

Whereas, I/We, Yong-sik KWON, of 670-71, Seongsu-1ga-2dong, Seongdong-gu, Seoul
Korea, Jin-hee JEONG, of 24-3, 87-70, Imun-1-dong, Dongdaemun-gu, Seoul, Korea, Jung-jin
KIM, of 1-502, Pyeonggwang Apart.nent, Beomer-4-dong, Suseong-gu, Daegu-city, Korea,
respectively, hereinafter called assignor(s), have invented certain improvements in CHANNEL
ESTIMATION APPARATUS AND METHOD IN DIGITAL COMMUNICATION SYSTEM
and executed an application for Letters Patent of the United States of America therefor on
; and

Whereas, SAMSUNG ELECTRONICS CO., LTD., 416, Maetan-dong, Paldal-gu, Suwon-city, Gyunggi-do, 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 Director of the U.S. Patent and Trademark Office 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.

		est our attorneys SUGHRUE MION, PL n, DC 20037-3213 to insert here in parer			
(Application number	n number and Confirmation number		, filed		
the application number and filing date of said application when known.					
Date:		July 2, 2003			
	s/Yong-sik KWON				
Date:	/of~	July 2, 2003			
	s/Jin-hæe/JEONG				
Date:	Jung - Jan	July 2, 2003			
	s/Jung-jin KIM				

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

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