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nev Docket No.: 678-1808 (P11586)

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Name of conveying party(ies):	Name and address of receiving party(ies):				
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Additional name(s) of conveying party(ies) attached? [] yes [X] no	San 4-2, Bongcheon-dong, Gwanak-gu, Seoul, Republic of Korea				
3. Nature of Conveyance	Additional names and addresses attached? [ ] yes [X] no				
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Execution Date: December 20, 2004					
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 $\phi \phi$ :					
A. Patent Application No.(s)	B. Patent No.(s):				
11/020,414 filed December 23, 2004					
A. Patent Application No.(s)  11/020,414 filed December 23, 2004  Additional numbers attached? [] Yes [X] No					
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and pateric invelved:				
Name: <u>Paul J. Farrell, Esq.</u>	7. Total fee (37 C.F.R. 3.41)				
Internal Address: Dilworth & Barrese					
Street Address: 333 Earle Ovington Boulevard  8. Deposit account number: 04-1121					
City: Uniondale State: NY ZIP: 11553	(Attach duplicate copy of this page if paying by deposit account)				
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9. Statement and signature.					
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.  Paul J. Farrell, Esq.  Name of Person Signing  April 15, 2005  Signature  Date					
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**PATENT REEL: 016464 FRAME: 0204** 

## **ASSIGNMENT**

DOCKET NO. 678-1808 (P11586)

AS A BELOW NAMED INVENTOR, I, and each of us, individually hereby declare that: IN CONSIDERATION of the sum of TEN (\$10.00) dollars or the equivalent thereof, and other good and valuable consideration, the receipt of which from the hereinafter named Assignee is hereby acknowledged, I do hereby sell, assign and forever grant and convey unto:

ASSIGNEE: Samsung Electronics Co., Ltd.

ADDRESS: 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea

ASSIGNEE; Seoul National University Industry Foundation

ADDRESS: San 4-2, Bongcheon-dong, Gwanak-gu, Seoul, Republic of Korea

Who is my Assignee, and to the successes and assigns of my Assignee, all my right, title and interest, in and for the United States of America and all other countries, including all rights of priority, in and to the invention entitled:

TITLE:

APPARATUS AND METHOD FOR ALLOCATING SUBCHANNELS ADAPTIVELY ACCORDING TO FREQUENCY REUSE RATES IN AN ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS SYSTEM

invented by me (if only one inventor is named below) or us (if more than one inventor is named below) and described in an application for a United States patent the specification of which is either attached hereto or otherwise accompanies this Assignment or Indicates an attorney docket no. 678-1808 (P11586), or is more particularly identified as:

X	executed on even date herewith, or					
Ģ	Serial No. 11/020,414 filed in the U.S. Patent & Trademark Office on December 23, 2004					
	or					
G	executed on					

and in and to all United States patents which may be granted thereon and therefore, and in and to all certificates of corrections, divisions, continuations, continuations-in-part, reissued and re-examined patents, and to any extensions thereof, said interest being the entire ownership of the patent when granted, to be held and enjoyed by said SAMSUNG ELECTRONICS CO., LTD. and SEOUL NATIONAL UNIVERSITY INDUSTRY FOUNDATION, my Assignee, its successors, assigns or other legal representatives, to the full end of the term, terms, or any extension or renewal thereof, for which said patent or patents may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment, sale and conveyance had not been made;

AND I hereby covenant and agree to sign and execute any further documents or instruments which may from time-to-time be either necessary, lawful, proper or requested by the Assignee, in the prosecution of the above-named application or in the preparation and prosecution of any certificate of correction, division, continuation, continuation, in-part, reissue, re-examination, in any amendment, extension, or interference proceeding, whether administrative or judicial, or otherwise, to secure the title hereto in said Assignee;

AND I do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Patent or Patents to the Assignee, and I hereby appoint as my, or our attorney, and authorize and request <u>Peter G. Dilworth, Reg. No. 25,450 and Paul J. Farrell. Reg. No. 33,494</u>, to insert on this Assignment any further identification or to complete such identification which may be either necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

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PATENT REEL: 016464 FRAME: 0205 pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Latters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I and we have set our hands and seals on the dates written beside my and our respective names:

	INVENTOR(S)		Date Signed	Witness(es)
1)	Sung-Hydrn OHO	(Scal)	Dec. 20. 2004	Lhu
2)	Sang-Boh YUN	(Seai)	Dec. 20 2004	
3) .	Won-Hyoung PARK	(Soal)	Dec. 20. 2004	La
4) _	Young-Nam HAN	(Seal)	Dec. 20, 2004	Kha
5) _	Hoon KIM	(Seal)	Dec. 20, 2004	Kha
6) _	Ja-Yong KOO	~ ~ (Seal)	Dec. 20, 2004	Logu