F (I	orm PTO-150 Rev. 03/015 MANO: 0651-0027 (exp. 5/31/2002) Tab settings ⇔ ⇔ ▼	01-06 - 10315	0848 •	U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office Attorney Docket No. 678-1713 (P12435)		
0-68-61.	1. Name of conveying party(ies): 1. Forenza ANTONIO 6. Kot 2. Robert W. HEATH 7. Pan 3. Hyoung-Woon PARK 4. Ho YANG 5. Ho-Jin KIM dditional name(s) of conveying party(les) 8. Nature of conveyance: Assignment Security Agreement Other 1. December 9, 2005 2. December 9, 2005	untouris MARIOS Idharipande ASHISH) attached? Yes No Werger Change of Name 5. September 6, 2005 6. December 6, 2005 7. September 6, 2005 5.	2. Name and an Name: 1. Samsun 416, Ma Suwon-s Gyeongg 2. Board of Texas S 201 W. Austin,	i-do, Republic of Korea of Regents, The University of		
	If this document is being filed to A. Patent Application No.(s) 11/221,223 Filed: Septmber	cation No.(s) ed: Septmber 7, 2005		ication, the execution date of the application is: B. Patent No.(s) ttached? Yes No		
	Name and address of party to concerning document should be Name: Paul J. Farrell, Esq. DILWORTH & BA 333 Earle Ovington Uniondale, New Yor U.S. PTO Customer No.	whom correspondence e mailed: RRESE, LLP Boulevard k 11553	6. Total number 7. Total fee (37	of applications and patents involved: 1 CFR 3.41)\$ \$40.00 ded to be charged to deposit account		
01/05/2006 01 FC:8021	DBYRNE 00000306 11221223 40.00 00		(Attach duplicate	e copy of this page if paying by deposit account)		

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9. Statement and signature.

Paul J. Farrell

To the best of my knowledge and belief, the foregoing

is a true copy of the original document.

Name of Person Signing

PATENT REEL: 017415 FRAME: 0927

12/27/05

Date

ation in frue and correct and any attached copy

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

ASS/GNEE: Board of Regents, The University of Texas System

ADDRESS: 201 W. 7th Street, Austin, Texas 78701 U.S.A.

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: MIMO COMMUNICATION SYSTEM USING AN ADAPTIVE TRANSMISSION MODE SWITCHING TECHNIQUE

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. 678-1713 (P12435), or is more particularly identified as:

X	executed on even date herewith, or
G	Serial No 9/7/2005 filed in the U.S. Patent & Trademark Office on 11/221,223
	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 BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, 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 Peter G. Dilworth, Reg. No. 26,450 and Paul J. Farrell, Reg. No. 33,494, 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.

Page 1 of 2

And I further covenant that ASSIGNEE will, upon its request, be provided promptly with all 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 Letters 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 end seals on the dates written beside my and our respective names:

my and our respective names.					
INVENTOR(S)	Date S	igned <u>V</u>	/itness(es)	////	
Forenza ANTONIO	(Seal)	12/9/2005			
2) Robert WATEATH	(Seal)	12/9/20	25 Mag	THE S	
3) Hyoung-Woon PARK	(Seal)				
4)Ho YANG	(Seal)		.		
5) Ho-Jin KIM	(Seal)				
6 Kountouris MARIOS	(Seal) _				
7Pandharipande ASHISH	(Seal) _				

Page 2 of 2

Assignment that ASS GNEE will upon its request no provided promptly with an periment facts and documents relating to said invention and said Letters Patent and legal countriers will may be known and accessible to ASS GNOP and will lostify as to the same in any intervence inflation or properties of the reto and will promptly colecture also active to 498. GnEE of its legal representatives any and all papers, it assuments or efficients required to soot for other inflation, issue and entoice and application, said invention and said Lotters Patent and said entoice and documble to corry our the purposes there of

IN WITNESS Writting OF I and we have suitour pands or it och sich de dates widen berockt my and our respective names.

<u>INVENTOR(S)</u>		Date Sanned	<u>Winnespiros)</u>	
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7 <u>Adrijorala</u> Pandharipande ASHISH	: Meal	Sep. 6, 2005		

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 Letters 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) Forenza ANTONIO	(Seal)	
2) Robert W. HEATH	(Seal)	
3) Hyoung-Woon PARK	(Seal)	
4) Ho YANG	(Seal)	
5) Ho-Jin KIM	(Seal)	
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7 Pandharipande ASHISH	(Seal)	,

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