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			Trademark Office
CMB No. 0651-0027 (exp. 5/31/2002) 1030	68406	orney Docket No. 678-	987 (P12152)
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1. Name of conveying party(ies):		dress of receiving party(ie	
Seung-Hoon NAM	Name:		U.S 065
Jae-Hak CHUNG Chan-Soo HWANG	Samsung F	lectronics Co., Ltd.	120
Young-Ho JUNG Vahid TAROKH	416. Maeta	n-dong, Yeongtong-gi	, ÷
Additional name(s) of conveying party(ies) attached? Yes N 3. Nature of conveyance:	Suwon-si		
Assignment Green			
	1 00	o, Republic of Korea	
Security Agreement Grange of Name			
Cther	-		
Execution Date: June 7, 2005	– 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 a	oplication, the executi	on date of the application	is: <u>8/18/2005</u>
A. Patent Application No.(s)	B. Patent No.		
	1		
1	1		
Additional number	s attached? 🖵 Yes 🖾	No	
5. Name and address of party to whom correspondence	s attached? 🖵 Yes 😰 e 6. Total number c	No f applications and patents	s involved: 1
5. Name and address of party to whom correspondence concerning document should be mailed:	e 6. Total number c	f applications and patents	
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5. Name and address of party to whom correspondence concerning document should be mailed: Name: Paul J. Farrell, Esq. DILWORTH & BARRESE, LLP 333 Earle Ovington Boulevard Uniondale, New York 11553	 6. Total number of 7. Total fee (37 C Enclosed Authorize 8. Deposit accou 	f applications and patents FR 3.41)\$_\$40 d to be charged to deposi	0.00 t account
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5. Name and address of party to whom correspondence concerning document should be mailed: Name: Paul J. Farrell, Esq. DILWORTH & BARRESE, LLP 333 Earle Ovington Boulevard Uniondale, New York 11553 U.S. PTO Customer No. 28249 DO NOT U 9. Statement and signature. To the best of my knowledge and belief, the foregoin is a true copy of the original document. Paul J. Farrell, Reg. No. 33,494 Name of Person Signing	 6. Total number of 7. Total fee (37 O Enclosed Authorized 8. Deposit accou (Attach duplicate of SE THIS SPACE g information is true of With Well Signature 	f applications and patents FR 3.41)\$_\$40 d to be charged to deposi Int number: 04-1121 opy of this page if paying by de and correct and any attack 8/18/05 Data omation to:	2.00 t account posit account) hed copy

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PATENT REEL: 016908 FRAME: 0469

ASSIGNMENT DOCKET NO. 678-1987 (P12152)

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

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: DIFFERENTIAL SPACE-TIME BLOCK CODING APPARATUS WITH HIGH TRANSMISSION RATE AND METHOD THEREOF

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. <u>678-1987 (P12152)</u>, or is more particularly identified as:

G executed on even date herewith, or

G Serial No. ______ filed in the U.S. Patent & Trademark Office on ______,

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., 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. 26,450 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.

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 and seals on the dates written beside my and our respective names:

INVENTOR(S)	Date Signed	Witness(es)
1) Chino Seung-Hoon NAM	(Seal) June 7, 2005	
2) Jae-Hak CHUNG	(Sea!)	ра <u>ан</u>
3) Chan-Soo HWANG	(Seal)	
4) Young-Ho JUNG	(Seal)	
5) Vahid Tarokh	(Seal)	

Page 2 of 2

PATENT REEL: 016908 FRAME: 0471 And I further covenent 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 WHEREDF, I and we have set our hands and seals on the detes written beside my and our respective names:

	INVENTOR(S)	Date Signed	Witness(AS)
1	Seung-Hoon NAM	(Seat)	
2	Jae-Hak CHUNG	(Seall June 1. 2005	·
3)	Chan-Soo HWANG	(Seal)	
4)	Young-Ho JUNG	(Seal)	
	Vahid Tarokh	(Seal)	·

Page 2 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 and seals on the dates written beside my and our respective names:

INVENTOR(S)		Date Signed	Witness(es)
1) Seung-Hoon NAM	(Scal)		
2) Jae-Hak CHUNG	(Seal)		
3) Chan-Sco RWANG	(Seal)	June 7, 2005	
4) Young-Ho JUNG	(Seal)		
5) Vahid Tarokh	(Seal)		

Page 2 of 2

PATENT REEL: 016908 FRAME: 0473

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	INVEN [OR(S)		Date Signed	<u>Witness(es)</u>
1) _	Seung-Hoon NAM	(Seal)	·	
2) _	Jae-Hak CHUNG	(Sea))		
3)	Chan-Soo HWANG	(Seal)		
⁴⁾ ∠	Young-Ho JUNG	(Seal)	June 1, 2005	
5)	Tarokh VAHID	(Seal)		·

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PATENT REEL: 016908 FRAME: 0474

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 and seals on the dates written beside my and our respective names:

INVENTOR(S)

Date Signed

Witness(es)

1) Seung-Hoon NAM		
2) Jae-Hak CHUNG	(Seal)	
3) Chen-Soo HWANG	(Seal)	······
4) Young-Ho JUNG	(Seal)	
5) Value Tart	(Seal) Ang 11,2005	

Page 2 of 2

RECORDED: 08/18/2005