U.S. PTO 11/790011

04/23/2007 RM PTO-1595 (Modified) iv. 03-01)

IB No. 0651-0027 (exp.5/31/2002)

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U.S. DEPARTMENT OF COMMERC Patent and Trademark Offic

'ab settings 🔷 🔷 To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof. Name of conveying party(ies): Name and address of receiving party(ies): Yu-Hwan RO 4.23.07 Samsung Electronics Co., Ltd. Kwang-Jin LEE Name: Sang-Beom KANG 416, Maetan-dong, Yeongtong-gu, Suwon-si Address: Woo-Yeong CHO Yes X No Additional names(s) of conveying party(ies) . Nature of conveyance: Merger Assignment City: Gyeonggi-do Change of Name State/Prov.: Security Agreement Country: Republic of Korea ZIP: Other Execution Date: April 10, 2007 Additional name(s) & address(es) ☐ Yes ⊠ No . Application number(s) or patent numbers(s): 0011 this document is being filed together with a new application, the execution date of the application is: April 10, 2007 Patent Application No. Filing date B. Patent No.(s) NEW April 23, 2007 ☐ Yes 🖾 No Additional numbers Name and address of party to whom correspondence 6. Total number of applications and patents involved: concerning document should be mailed: Name: BENJAMIN P. WESTOVER 7. Total fee (37 CFR 3.41):....\$ Registration No. 56,612 Enclosed - Any excess or insufficiency should be credited or debited to deposit account Address: VOLENTINE & WHITT, PLLC Authorized to be charged to deposit account ONE FREEDOM SQUARE 8. Deposit account number: 11951 FREEDOM DRIVE, SUITE 1260 50-0238 City: RESTON _ State/Prov.: _VA (Attach duplicate copy of this page if paying by deposit account) Country: USA 20190 ZIP: DO NOT USE THIS SPACE 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. Ap₩ 23, 2007 **BENJAMIN P. WESTOVER** Name of Person Signing **P**ate Total number of pages including cover sheet, attachments, and document:

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PATENT

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ASSIGNMENT

		of the sum of One Doll each of the undersign	ar (\$1.00) and other good and valuable		
Insert Name(s) of	l. Yu-Hwan R	0	5.		
Inventor(s)	2. <u>Kwang-Jin</u>	LEE	6,		
	3. Sang-Beom	KANG	7.		
	4. Woo-Yeong	СНО	8.		
Insert Name(s) of	the undersigned hereby sell(s) and assign(s) to				
Assignee(s) &	SAMSUNG ELECTRONICS CO. LTD. 416, Maetan-dong, Yeongtong-gu,				
Address(es)	of		ggi-do, Republic of Korea		
Title of Invention	States as defined in	35 USC 100, in the inv	entire right, title and interest for the United ention known as ND RELATED PROGRAMMING METHOD		
Date of Signing of	for which an application for patent in the United States of America has been executed by				
Application	the undersigned on April 10, 2007				
	The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignce may deem necessary or expedient.				
	The undersigned agroe(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuing, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.				
	The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.				
	The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.				

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PATENT REEL: 019299 FRAME: 0129 The undersigned hereby grant(s) the practitioners associated with the <u>CUSTOMER NUMBER 20987</u> the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned

name(s).			
Date	April 10, 21	Signature of Inventor	TU-NWAN NO
Date/	4111 10, 20	Signature of Inventor	Kwang-Jin Lee
Date	APRIL 10, 2	Signature of Inventor	Sang-Son KANG
Date	April 10, 20	Signature of Inventor	WODYERNS CHO
Date		Signature of Inventor	
Date		Signature of Inventor	
v	vitnessed by at lea latent and Tradem	ist two witnesses who sign her	d that the execution by the inventor(s) be e. However, the current practice of the U.S. gnment even it has not been witnessed.)
	Witness		
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oplicant Refer	ence No	PX2194US/SSD	

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