PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Young Ho Lim	08/19/2010
Dong Ku Kang	08/19/2010
Hyeong Jun Kim	08/23/2010

RECEIVING PARTY DATA

Name:	SAMSUNG ELECTRONICS CO., LTD.
Street Address:	416, Maetan-dong, Yeongtong-gu,
City:	Suwon-si, Gyeonggi-do,
State/Country:	REPUBLIC OF KOREA
Postal Code:	442-742

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	12861855	

CORRESPONDENCE DATA

Fax Number: (571)283-0740

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 5712830720

Email: aloomis@volentine.com

Correspondent Name: VOLENTINE & WHITT, PLLC

Address Line 1: 11951 FREEDOM DRIVE, SUITE 1260

Address Line 4: RESTON, VIRGINIA 20190

ATTORNEY DOCKET NUMBER:	SEC.2655
NAME OF SUBMITTER:	ADAM C. VOLENTINE

Total Attachments: 4

source=Assignment#page1.tif source=Assignment#page2.tif

PATENT REEL: 024882 FRAME: 0546 source=Assignment#page3.tif source=Assignment#page4.tif

> PATENT REEL: 024882 FRAME: 0547

ASSIGNMENT

	In consideration of the sum of On	e Dollar (\$1.00) and other good and valuable
Insert	consideration paid to each of the und	ersigned
Name(s) of Inventor(s)	1. Young Ho LIM	7.
inventor(s)	2. Dong Ku KANG	8.
	3. Hyeong Jun KIM	9.
	4	10
	5	11
	6.	12
Insert Name(s) of	6. the undersigned hereby sell(s) and as	sign(s) to
Assignee(s) &	SAMSUNG E	LECTRONICS CO., LTD.
	416, Maetan-dong,	
Address(es)	of Suwon-si, Gyeonggi	-do 442-742, Republic of Korea
Title of Invention	States as defined in 35 USC 100, in t	ee) the entire right, title and interest for the United he invention known as AND SYSTEM, AND METHOD OF
	PROGRAMMING A NONVOLATILE	MEMORY DEVICE
Date of Signing of Application	for which an application for patent in the undersigned on August 19,	the United States of America has been executed by 2010
	The undersigned agree(s) to execute application and any continuing, divis execute separate assignments in contideem necessary or expedient. The undersigned agree(s) to execute	all papers necessary in connection with this ional or reissue applications thereof and also to ection with such applications as the Assignee may all papers necessary in connection with any
	reissue thereof and to cooperate with evidence and going forward with suc	concerning this application or continuing. division or the Assignee in every way possible in obtaining h interference.

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.

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

Page 1 of 2

for Protection of Industrial Property or similar agreements.

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).			
	08//9 Signat	ure of Inventor	Young to LIM
Date <u>2010/</u>	ラ//9 Signate	ure of Inventor	Dong Ku KANG
	Signat		Hyeong Jun KIM
Date	Signat	ure of Inventor	
Date	Signat	ure of Inventor	
Date	Signat	ure of Inventor	
witnessed	by at least two witness	ses who sign here.	that the execution by the Inventor(s) be However, the current practice of the U.S. nment even it has not been witnessed.)
W	Vitness		
V	Vitness		

Page 2 of 2

ASSIGNMENT

	Ĭn	consideration of the sum of On	e Dollar (\$1.00) and other good and valuable
		ideration paid to each of the und	
Insert Name(s) of	1.	Young Ho LIM	7.
Inventor(s)	2.	Dong Ku KANG	8.
	3,	Hyeong Jun KIM	
			10.
	5.		11.
	•		
Insert	the u	ndersigned hereby sell(s) and as	12 sign(s) to
Name(s) of			5. 5 (c) 40
Assignee(s) &			LECTRONICS CO., LTD.
		416, Maetan-dong,	
Address(es)	QΙ.	suwon-si, Gyeonggi	-do 442-742, Republic of Korea
Title of Invention	State	s as defined in 35 USC 100, in t	ee) the entire right, title and interest for the United he invention known as AND SYSTEM, AND METHOD OF
	DD O		NEMORY DELLICE
	PROC	GRAMMING A NONVOLATILE	, MEMORI DEVICE
Date of Signing of	for w	hich an application for patent in	the United States of America has been executed by
Application	the u	ndersigned on August 23, 2	010
	appli exect	cation and any continuing, divis	all papers necessary in connection with this ional or reissue applications thereof and also to lection with such applications as the Assignee may
	interi reissi	ference which may be declared of	all papers necessary in connection with any concerning this application or continuing, division or the Assignee in every way possible in obtaining h interference.
	may		all papers and documents and perform any act which claims or provisions of the International Convention or similar agreements.
		undersigned agree(s) to perform nt of a valid United States paten	all affirmative acts which may be necessary to obtain to the Assignee.

Page 1 of 2

850171282517647

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		Signature of Inventor	Young Ho LIM
			•
Date		Signature of Inventor	Dong Ku KANG
Date _	2010/8/23	Signature of Inventor	typong Jun KIM
Date		Signature of Inventor	
Date _		Signature of Inventor	
Date		Signature of Inventor	
	witnessed by at lea	ast two witnesses who sign here.	that the execution by the Inventor(s) be However, the current practice of the U.S. nment even it has not been witnessed.)
	Witness_		
	Witness_		
•••••			
		ID-190630-US	

Page 2 of 2

031-208-4799

김 보주070346751252116202 20100823075406

I-126 P005

850171282517847

, IO-08-54 IO:03 BEOM-SAMSUNG

F-321