PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Jeong Min PARK	12/02/2011
Dong-Won WOO	12/02/2011
Je Hyeong PARK	12/02/2011
Sang Gab KIM	12/02/2011
Jung-Soo LEE	12/02/2011
Ji-Hyun KIM	12/02/2011

RECEIVING PARTY DATA

Name:	Samsung Electronics Co., Ltd.	
Street Address:	416, Maetan-Dong, Yeongtong-gu, Gyeonggi-do	
City:	Suwon-si	
State/Country:	KOREA, REPUBLIC OF	
Postal Code:	443-803	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13310005

CORRESPONDENCE DATA

 Fax Number:
 (703)288-5139

 Phone:
 703-288-5105

 Email:
 patent@park-law.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: H.C. Park & Associates, PLC

Address Line 1: 8500 Leesburg Pike

Address Line 2: Suite 7500

Address Line 4: Vienna, VIRGINIA 22182

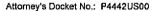
ATTORNEY DOCKET NUMBER: P4442US00

PATENT REEL: 027357 FRAME: 0926 OP \$40,00 13310005

501750725

NAME OF SUBMITTER:	Hae-Chan Park
Total Attachments: 3 source=P4442US00 Executed Assignment#page1.tif source=P4442US00 Executed Assignment#page2.tif source=P4442US00 Executed Assignment#page3.tif	

PATENT REEL: 027357 FRAME: 0927





ASSIGNMENT

manufa	Whereas, Assignor has invented certain new and useful processes, machines, articles of acture, compositions of matter, and/or improvements thereof ("Invention") disclosed in	
ARRA		
issued	upon which United States Letters Patent, Patent Number, has ("Patent");	
to:	Whereas, Assignor desires to convey all rights, titles, and interests in and to the sam	
	Samsung Electronics Co., Ltd. 416 Maetan-dong, Yeongtong-gu Suwon-si Gyeonggi-do Republic of Korea	

Samsung Electronics Co., Ltd. herein further referred to as ("Assignee").

Now, for valuable consideration by Assignee to Assignor, the receipt of which is hereby acknowledged, and for other good and valuable consideration, Assignee and Assignor hereby agree as follows:

Assignor hereby conveys, assigns, sells and transfers to Assignee all rights, title and interests in and to the Invention disclosed in said application and in and to any Letters Patent of the United States (US), any continuation, division, renewal, or substitute thereof, and hereby grant to Assignee the right to apply in its own name for patents or Inventor's certificates and related rights heretofore or hereafter filed for the Invention in any and all countries, including (without limitation) all rights to claim priority based thereon, all patents granted thereon and all reissues, extensions and renewals thereof.

Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

Assignor further covenants that Assignee will, upon Assignee's request, be provided promptly with all pertinent facts and documents relating to the Invention, Patent, Application and any patents granted thereon, as may be known and accessible to Assignor, and Assignor will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to Assignee or Assignee's legal representative any and all papers, instruments or affidavits required to apply for, protect, obtain, maintain, issue, defend and enforce the Application, Patent, Invention, whether in the US or any and all foreign countries and any patents granted thereon and/or for obtaining any reissue or reissues of any patent

> **PATENT REEL: 027357 FRAME: 0928**

K

which may be granted for the invention and perform such further acts which may be necessary or desirable to carry out the intent of this agreement as the Assignee thereof shall hereafter require and prepare at assignee's expense.

IN WITNESS WHEREOF, Assignor has hereunto set hand and seal.

First Inventor's Name:	Jeong Min PARK
Address:	3rd Floor, 372-9 Yangjae-dong, Seocho-gu Seoul Republic of Korea
First Inventor's Signature:	- Ton
Date:	2011.12.2
Second Inventor's Name: Address:	Dong-Won WOO 303-2102, Samsung Trapalace, Myeongam-ri
	Tangjeong-myeon, Chungcheongnam-do Asan-si Republic of Korea
Second Inventor's Signature: Date:	Dong won Woo
Third Inventor's Name:	Je Hyeong PARK
Address:	202, 52-3, Bansong-dong Gyeonggi-do, Hwaseong-si Republic of Korea
Third Inventors' Signature:	Jehreory: Parly
Date:	2011.12.2

Fourth Inventor's Name:	Sang Gab KIM
Address:	508-1407, Samik Green Apt. Myeongil 1-dong, Gangdong-gu Seoul Republic of Korea
Fourth Inventor's Signature:	KTM SANG GAB
Date:	2011-12-2
Fifth Inventor's Name	Jung-Soo LEE
Address:	Dogok Rexel Apt. 411-1802 Dogok 2-dong, Gangnam-gu Seoul Republic of Korea
Fifth Inventor's Signature:	Jup Soo Lee.
Date:	2011.12.2
Sixth Inventor's Name:	Ji-Hyun KIM
Address:	136-12, Dorim 1-dong Yeongdeungpo-gu Seoul Republic of Korea
Sixth Inventor's Signature:	つけなける

Page 3 of 3

Date:

RECORDED: 12/09/2011

PATENT REEL: 027357 FRAME: 0930

2011.12.2