

PATENT ASSIGNMENT

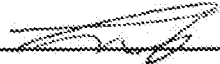
Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Moo-Kyoung Chung</td> <td>01/30/2012</td> </tr> <tr> <td>Soo-Jung Ryu</td> <td>01/30/2012</td> </tr> <tr> <td>Ho-Young Kim</td> <td>01/30/2012</td> </tr> <tr> <td>Woong Seo</td> <td>01/30/2012</td> </tr> <tr> <td>Young-Chul Cho</td> <td>01/30/2012</td> </tr> </tbody> </table>		Name	Execution Date	Moo-Kyoung Chung	01/30/2012	Soo-Jung Ryu	01/30/2012	Ho-Young Kim	01/30/2012	Woong Seo	01/30/2012	Young-Chul Cho	01/30/2012
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Woong Seo	01/30/2012												
Young-Chul Cho	01/30/2012												
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:	443-742												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13362460</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13362460								
Property Type	Number												
Application Number:	13362460												
CORRESPONDENCE DATA													
Fax Number:	(202)315-3758												
Phone:	(202) 429-0020												
Email:	email@nsiplaw.com												
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>													
Correspondent Name:	North Star Intellectual Property Law, PC												
Address Line 1:	P.O. Box 34688												
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20043												
ATTORNEY DOCKET NUMBER:	12000.SMG.1147												
NAME OF SUBMITTER:	Nicholas M. Stabler												
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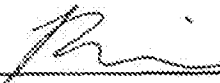
OP \$40.00 13362460

IN TESTIMONY/WITNESS WHEREOF, we, the undersigned inventors (Assignors) intending to be legally bound, have hereto affixed our signatures.

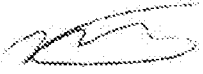
This 30th day of JAN., 2012


Signature: Moo-Kyoung CHUNG


This 30th day of Jan., 2012


Signature: Soo-Jung RYU

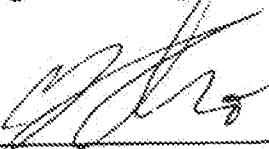
This 30th day of Jan., 2012


Signature: Ho-Young KIM

This 30th day of Jan., 2012


Signature: Woong SEO

This 30th day of Jan., 2012


Signature: Young-Chul CHO