

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Yongxing ZHOU</td> <td>09/15/2009</td> </tr> <tr> <td>Hua LI</td> <td>09/15/2009</td> </tr> <tr> <td>Sung Jin KIM</td> <td>09/15/2009</td> </tr> </tbody> </table>		Name	Execution Date	Yongxing ZHOU	09/15/2009	Hua LI	09/15/2009	Sung Jin KIM	09/15/2009
Name	Execution Date								
Yongxing ZHOU	09/15/2009								
Hua LI	09/15/2009								
Sung Jin KIM	09/15/2009								
RECEIVING PARTY DATA									
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>SAMSUNG ELECTRONICS CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742</td> </tr> <tr> <td>City:</td> <td>Suwon-si</td> </tr> <tr> <td>State/Country:</td> <td>REPUBLIC OF KOREA</td> </tr> </table>		Name:	SAMSUNG ELECTRONICS CO., LTD.	Street Address:	416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742	City:	Suwon-si	State/Country:	REPUBLIC OF KOREA
Name:	SAMSUNG ELECTRONICS CO., LTD.								
Street Address:	416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742								
City:	Suwon-si								
State/Country:	REPUBLIC OF KOREA								
PROPERTY NUMBERS Total: 1									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12563234</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12563234				
Property Type	Number								
Application Number:	12563234								
CORRESPONDENCE DATA									
Fax Number: (202)315-3758 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 2024293789 Email: charles@nsiplaw.com Correspondent Name: Charles Y. Park Address Line 1: 1156 15th St NW Suite 603 Address Line 4: Washington, DISTRICT OF COLUMBIA 20005									
ATTORNEY DOCKET NUMBER:	12000.SMG.0619								
NAME OF SUBMITTER:	Charles Y. Park								
Total Attachments: 4 source=AssignmentSMG619#page1.tif source=AssignmentSMG619#page2.tif source=AssignmentSMG619#page3.tif									

OP \$40.00 12563234

500967209

PATENT
REEL: 023257 FRAME: 0485

ASSIGNMENT

For valuable consideration, We,

- (1) Name: **Yongxing ZHOU**
 Address: Mt. 14-1, Nongseo-dong, Giheung-gu,
 Yongin-si, Gyeonggi-do 446-712, Republic of Korea
 Nationality: P.R. China
- (2) Name: **Hua LI**
 Address: Mt. 14-1, Nongseo-dong, Giheung-gu,
 Yongin-si, Gyeonggi-do 446-712, Republic of Korea
 Nationality: P.R. China
- (3) Name: **Sung Jin KIM**
 Address: 437-1901 Cheongmyeongmaeul Samsung Raemian Apt.,
 Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do
 443-737, Republic of Korea
 Nationality: Republic of Korea

hereby assign to:

SAMSUNG ELECTRONICS CO., LTD., a Republic of Korea corporation
having principal executive offices at:
416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742,
Republic of Korea; and

its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of U.S. Patent Application Number 12,563,234 filed 09/21/2009 at the U.S. Patent & Trademark Office signed by us, with title METHOD OF DESIGNING CODEBOOK FOR NETWORK MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATION SYSTEM AND METHOD OF USING THE CODEBOOK, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and application serial number of said application when known; this Assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, preliminary statements and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal this 17th day of
September, 2009

Signature: Yongxing Zhou
Yongxing ZHOU

City of Yongin, Gyeonggi-do

Country of Rep. of Korea :

Before me this _____ day of _____, 2009, personally appeared
known to me to be the person whose name is subscribed to the foregoing Assignment and
acknowledged that they executed the same as his free act and deed for the purposes therein
contained.

Witness or Notary Public

IN WITNESS WHEREOF, I hereto set my hand and seal this 15th day of
September, 2009

Signature: Hua Li
Hua LI

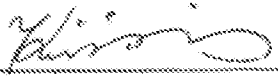
City of Yongin, Gyeonggi-do

Country of Rep. of Korea :

Before me this _____ day of _____, 2009, personally appeared
known to me to be the person whose name is subscribed to the foregoing Assignment and
acknowledged that they executed the same as his free act and deed for the purposes therein
contained.

Witness or Notary Public

IN WITNESS WHEREOF, I hereto set my hand and seal this 15th day of
September, 2009

Signature: 
Sung Jin KIM

City of Suwon, Gyeonggi-do

Country of Rep. of Korea

Before me this _____ day of _____, 2009, personally appeared
known to me to be the person whose name is subscribed to the foregoing Assignment and
acknowledged that they executed the same as his free act and deed for the purposes therein
contained.

Witness or Notary Public