

PATENT ASSIGNMENT

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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>Young-Han Nam</td> <td>01/21/2013</td> </tr> <tr> <td>Boon Loong Ng</td> <td>01/21/2013</td> </tr> <tr> <td>Jianzhong Zhang</td> <td>01/21/2013</td> </tr> </tbody> </table>		Name	Execution Date	Young-Han Nam	01/21/2013	Boon Loong Ng	01/21/2013	Jianzhong Zhang	01/21/2013				
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<table border="1"> <tr> <td>Name:</td> <td>Samsung Electronics Co., Ltd</td> </tr> <tr> <td>Street Address:</td> <td>129, Samsung-ro</td> </tr> <tr> <td>Internal Address:</td> <td>Yeongtong-gu, Suwon-si</td> </tr> <tr> <td>City:</td> <td>Gyeonggi-do</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> <tr> <td>Postal Code:</td> <td>443-742</td> </tr> </table>		Name:	Samsung Electronics Co., Ltd	Street Address:	129, Samsung-ro	Internal Address:	Yeongtong-gu, Suwon-si	City:	Gyeonggi-do	State/Country:	KOREA, REPUBLIC OF	Postal Code:	443-742
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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
<p>Fax Number: 9726283616</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 927-628-3600</p> <p>Email: patents@munckwilson.com</p> <p>Correspondent Name: Docket Clerk - SAMS</p> <p>Address Line 1: P.O. Drawer 800889</p> <p>Address Line 4: Dallas, TEXAS 75380</p>													
ATTORNEY DOCKET NUMBER:	2012.01.021.SR0												
NAME OF SUBMITTER:	Michael G. Rodriguez												
<p>Total Attachments: 4</p> <p>source=Assignment#page1.tif</p> <p>source=Assignment#page2.tif</p> <p>source=Assignment#page3.tif</p> <p>source=Assignment#page4.tif</p>													

CH \$40.00 13746145

ASSIGNMENT

WHEREAS, We, Young-Han Nam, resident of Richardson, Collin County, Texas, citizen of Republic of Korea, Boon Loong Ng, resident of Dallas, Dallas County, Texas, citizen of Australia, and Jianzhong Zhang, resident of Plano, Collin County, Texas, citizen of China, have invented certain new and useful improvements in "APPARATUS AND METHOD FOR PILOT SCRAMBLING FOR ENHANCED PHYSICAL DOWNLINK CONTROL CHANNELS" disclosed in an application for United States Letters Patent (Application No. _____, filed _____), said application having been executed concurrently herewith;

WHEREAS, SAMSUNG ELECTRONICS CO., LTD, a corporation organized under the laws of the Republic of Korea, having a place of business at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742, Republic of Korea (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring my entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, continuations-in-part and extensions thereof; I authorize William A. Munck of Munck Wilson Mandala, LLP to insert in the parenthesis above the application number and filing date of said application when known; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to the said ASSIGNEE of my entire right, title and interest.

I also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

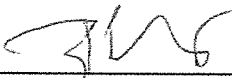
I hereby further agree that I will communicate to said ASSIGNEE, or to its successors, assigns and legal representatives, any facts known to me respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, and make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 21st day of January, 2013.

STATE OF TEXAS §
COUNTY OF _____ §

PATENT
REEL: 029664 FRAME: 0553

Date: 1/21/2013



Boon Loong Ng

STATE OF TEXAS

§

§

COUNTY OF _____


§

On this ____ day of _____, 2013, before me, a Notary Public in and for the State and County aforesaid, personally appeared Boon Loong Ng, known to me to be the person named above who signed and sealed the foregoing instrument, and acknowledged the same to be his/her own free act and deed.

Notary Public, State of Texas

My Commission Expires:

Date: 1/21/2012


Jianzhong Zhang

STATE OF TEXAS §
 §
COUNTY OF _____ §

On this ____ day of _____, 2013, before me, a Notary Public in and for the State and County aforesaid, personally appeared Jianzhong Zhang, known to me to be the person named above who signed and sealed the foregoing instrument, and acknowledged the same to be his/her own free act and deed.

Notary Public, State of Texas

My Commission Expires:
