

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Zhouyue Pi</td> <td>08/24/2012</td> </tr> <tr> <td>Omar El Ayach</td> <td>08/10/2012</td> </tr> <tr> <td>Sridhar Rajagopal</td> <td>08/27/2012</td> </tr> <tr> <td>Shadi Abu-Surra</td> <td>08/24/2012</td> </tr> </tbody> </table>		Name	Execution Date	Zhouyue Pi	08/24/2012	Omar El Ayach	08/10/2012	Sridhar Rajagopal	08/27/2012	Shadi Abu-Surra	08/24/2012		
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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 Phone: 927-628-3600 Email: patents@munckcarter.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Docket Clerk - SAMS Address Line 1: P.O. Drawer 800889 Address Line 4: Dallas, TEXAS 75380</p>													
ATTORNEY DOCKET NUMBER:	2011.09.001.SR0												
NAME OF SUBMITTER:	Michael G. Rodriguez												

CH \$40.00 13595811

Total Attachments: 5

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ASSIGNMENT

WHEREAS, We, Zhouyue Pi, resident of Allen, Collin County, Texas, citizen of the USA, Omar El Ayach, resident of Austin, Travis County, Texas, citizen of Lebanon, Sridhar Rajagopal, resident of Plano, Collin County, Texas, citizen of the USA and Shadi Abu-Surra, resident of Richardson, Collin County, Texas, citizen of the USA and Jordan, have invented certain new and useful improvements in a "Multiple Antenna Transmission with Per-Antenna Power Constraints" 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 our 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, we 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; We 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 we 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 our entire right, title and interest.

We 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 we 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.

We hereby further agree that we will communicate to said ASSIGNEE, or to its successors, assigns and legal representatives, any facts known to us 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 ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

IN WITNESS WHEREOF, we have hereunto set our hands and seals this 24th day of August, 2012.

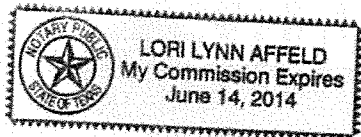
Zhouyue Pi
Zhouyue Pi

STATE OF TEXAS

COUNTY OF Collin

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On this 24 day of August, 2012, before me, a Notary Public in and for the State and County aforesaid, personally appeared Zhouyue Pi, 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.



Lori Lynn Affeld
Notary Public, State of Texas

My Commission Expires:

June 14, 2014

Date: 08/10/12

Omar El Ayach
Omar El Ayach

STATE OF TEXAS

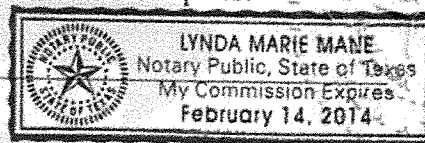
COUNTY OF Collin

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On this 10th day of August, 2012, before me, a Notary Public in and for the State and County aforesaid, personally appeared Omar El Ayach, 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.

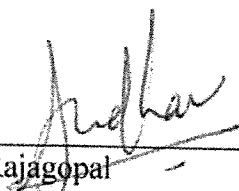
Lynda Marie Mane
Notary Public, State of Texas

My Commission Expires:



Date:

08/27/12


Sridhar Rajagopal

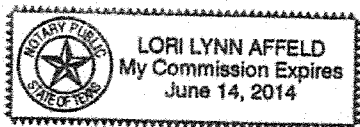
STATE OF TEXAS

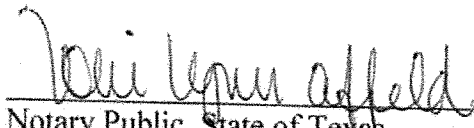
COUNTY OF

Collin

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On this 27 day of August, 2012, before me, a Notary Public in and for the State and County aforesaid, personally appeared Sridhar Rajagopal, 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:

June 14, 2014

Date: 8/24/2012

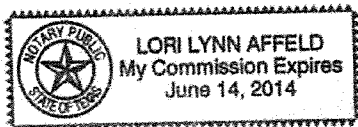
Shadi Abu-Surra

STATE OF TEXAS

COUNTY OF Collin

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On this 24 day of August, 2012, before me, a Notary Public in and for the State and County aforesaid, personally appeared Shadi Abu-Surra, 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.



Lori Lynn Affeld
Notary Public, State of Texas

My Commission Expires:

June 14, 2014