

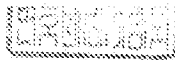
PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5520142

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
LG ELECTRONICS INC.	12/20/2018
RECEIVING PARTY DATA	
Name:	WILD GUARD LTD.
Street Address:	ROOM 901, YIP FUNG BUILDING
Internal Address:	NO. 2-12, D'AGUILAR STREET
City:	CENTRAL HONG KONG
State/Country:	HONG KONG
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16410586
CORRESPONDENCE DATA	
Fax Number:	(216)696-8731
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	216-696-8730
Email:	epas@thepatentattorneys.com
Correspondent Name:	AMIN, TUROCY & WATSON, LLP
Address Line 1:	200 PARK AVENUE
Address Line 2:	SUITE 300
Address Line 4:	BEACHWOOD, OHIO 44122
ATTORNEY DOCKET NUMBER:	WILDP107USH
NAME OF SUBMITTER:	HIMANSHU S. AMIN
SIGNATURE:	/Himanshu S. Amin/
DATE SIGNED:	05/13/2019
Total Attachments: 16	
source=WILDP107USH_Assignment#page1.tif	
source=WILDP107USH_Assignment#page2.tif	
source=WILDP107USH_Assignment#page3.tif	
source=WILDP107USH_Assignment#page4.tif	
source=WILDP107USH_Assignment#page5.tif	

source=WILDP107USH_Assignment#page6.tif
source=WILDP107USH_Assignment#page7.tif
source=WILDP107USH_Assignment#page8.tif
source=WILDP107USH_Assignment#page9.tif
source=WILDP107USH_Assignment#page10.tif
source=WILDP107USH_Assignment#page11.tif
source=WILDP107USH_Assignment#page12.tif
source=WILDP107USH_Assignment#page13.tif
source=WILDP107USH_Assignment#page14.tif
source=WILDP107USH_Assignment#page15.tif
source=WILDP107USH_Assignment#page16.tif



서울 서초구 강남대로 439
[별지 제41호서식]

공중
인가 동화법무법인

(전화) 02-3481-0028
(팩스) 02-3474-5920

Registered No. 2018 - 4749

NOTARIAL CERTIFICATE

Dong Hwa Law Corporation

439, Gangnam-daero, Seocho-gu,
Seoul, Korea



210mm X 297mm
보존용지(1종) 70g/m²

PATENT
REEL: 049161 FRAME: 0594

Exhibit A

ASSIGNMENT TO WILD GUARD LTD.

For good and valuable consideration, the receipt of which is hereby acknowledged, LG Electronics Inc., a Korean corporation having a primary place of business at LG Twin Towers 28, Yeouido-dong, Yeongdeunpogu, Seoul 150-721, Republic of Korea ("Assignor"), does hereby sell, assign, transfer and convey unto Wild Guard Ltd., a Hong Kong business entity having a primary place of business at Room 901, Yip Fung Building, No. 2-12, D'Aguilar Street, Central, Hong Kong ("Assignee"), all of Assignor's entire right, title and interest in and to (a) all patents and patent applications listed in Table 1 below; (b) all reissues, reexaminations, continuations, continuations-in-part, divisionals and extensions of such patents and patent applications; and (c) foreign counterparts to any or all of the foregoing, including utility models, design patents, certificates of invention and equivalent rights worldwide. For the avoidance of doubt, the Patents do not include any provisional applications except those provisional applications listed in Table 1. (collectively "Patent Rights").

Table 1

Patent No.	Serial No.	Country	Filing Date	Issue Date	Title
ZL200880112054.X	200880112054.X	China	4/16/2010	2/19/2014	A method for transmitting channel quality information in a multiple input multiple output system
2188912	8793257.0	Germany	8/14/2008	5/30/2012	A method for transmitting channel quality information in a multiple input multiple output system
2188912	8793257.0	E.P.O	8/14/2008	5/30/2012	A method for transmitting channel quality information in a multiple input multiple output system
2188912	8793257.0	Spain	8/14/2008	5/30/2012	A method for transmitting channel quality information in a multiple input multiple output system
2188912	8793257.0	Finland	8/14/2008	5/30/2012	A method for transmitting channel quality information in a multiple input multiple output system
2188912	8793257.0	France	8/14/2008	5/30/2012	A method for transmitting channel quality information in a multiple input multiple output system
2188912	8793257.0	Italy	8/14/2008	5/30/2012	A method for transmitting channel quality information in a multiple input multiple output system
	PCT/KR2008/004743	P.C.T	8/14/2008		A method for transmitting channel quality information in a multiple input multiple output system
2188912	8793257.0	Sweden	8/14/2008	5/30/2012	A method for transmitting channel quality information in a multiple input multiple output system
	12001359.4	E.P.O	2/29/2012		A method for transmitting rank and channel quality information in a multiple input multiple output system
269670	1126KOLNP2010	India	3/29/2010	10/30/2015	A method of performing handover by a mobile terminal from a source base station to a target base station"
2375590	11173053.7	Spain	7/7/2011	8/3/2016	Allocation procedure radio resources in a multi-carrier system
10-0964691	10-2007-0025175	Korea	3/14/2007	6/10/2010	Apparatus and method for transmitting data using a plurality of carriers
10-1295378	10-2007-0118355	Korea	11/20/2007	8/2/2013	Apparatus and method for transmitting data using a plurality of carriers

Patent No.	Serial No.	Country	Filing Date	Issue Date	Title
5475141	2012-541968	Japan	6/5/2012	2/14/2014	Being manner of the power saving in the power saving manner in the wireless lan
5063781	2010-319142	Japan	7/17/2008	8/17/2012	Being the manner which with the radio communication system from the uplink data and the manner which transmits buffer status report and the wireless installation call
4991011	2010-544212	Japan	7/16/2008	3/11/2012	Being the radio communication manner which transmits the status report for the sequence of the data which is transmitted according to
8948294	13-948947	U. S. A.	7/23/2013	2/3/2015	Communication of synchronization signals between base station and terminal
ZL200880124354.X	200880124354.X	China	7/8/2010	10/15/2014	For carrying out the method for handover procedure and establishment data
ZL200880102995.5	200880102995.5	China	2/11/2010	1/30/2013	Handover method with link failure recovery, wireless device and base station for implementing such method
	8158885.7	E.P.O	6/24/2008		Handover method with link failure recovery, wireless device and base station for implementing such method
	8158885.7	Germany	6/24/2008		Handover method with link failure recovery, wireless device and base station for implementing such method
	8158885.7	United Kingdom	6/24/2008		Handover method with link failure recovery, wireless device and base station for implementing such method
	8158885.7	France	6/24/2008		Handover method with link failure recovery, wireless device and base station for implementing such method
	8158885.7	Netherlands	6/24/2008		Handover method with link failure recovery, wireless device and base station for implementing such method
	PCT/KR2008/004188	P.C.T	7/17/2008		Handover method with link failure recovery, wireless device and base station for implementing such method
B363571	97129889.0	Taiwan	8/6/2008	5/1/2012	Handover method with link failure recovery, wireless device and base station for implementing such method
I448171	101105118.0	Taiwan	2/16/2012	8/1/2014	Handover method with link failure recovery, wireless device and base station for implementing such method
9319935	12/189586	U. S. A.	5/11/2008	4/19/2016	Handover method with link failure recovery, wireless device and base station for implementing such method
	13/069419	U. S. A.	3/9/2016		Handover method with link failure recovery, wireless device and base station for implementing such method
5001434	2010-533963	Japan	11/13/2008	5/25/2012	Handover procedure implementation methods and data generation method
10-1507785	10-2008-0010672	Korea	2/1/2008	3/26/2015	In a mimo system, a method for transmitting channel quality information
5540131	2013-081501	Japan	4/9/2013	5/9/2014	In the physical hybrid automatic request for repetition specification channel
	60/955382	U. S. A.	8/12/2007		LTE SYSTEM
10-1258716	10-2013-7009820	Korea	4/17/2013	10/1/2015	Method and apparatus for adjusting sound reference signal transmission power
ZL201180052590.7	201180052590.7	China	4/28/2013	8/10/2016	Method and apparatus for adjusting sound reference signal transmission power

Patent No.	Serial No.	Country	Filing Date	Issue Date	Title
	201610541186.0	China	7/11/2016		Method and apparatus for adjusting sound reference signal transmission power
	11836671.5	E.P.O.	5/13/2013		Method and apparatus for adjusting sound reference signal transmission power
	PCT/KR2011/008162	P.C.T.	10/28/2011		Method and apparatus for adjusting sound reference signal transmission power
8737257	13/882061	U. S. A.	4/26/2013	5/27/2014	Method and apparatus for adjusting sound reference signal transmission power
9082262	14/251354	U. S. A.	4/11/2014	5/26/2015	Method and apparatus for adjusting sound reference signal transmission power
9282561	14/698620	U. S. A.	4/28/2015	3/8/2016	Method and apparatus for adjusting sound reference signal transmission power
9756585	15/019452	U. S. A.	2/9/2016	9/5/2017	Method and apparatus for adjusting sound reference signal transmission power
	201610542784.X	China	7/11/2016		Method and apparatus for adjusting sounding reference signal transmission power
8989327	14/196970	U. S. A.	3/4/2014	3/24/2015	Method and apparatus for transmitting or detecting a primary synchronization signal
9384244	14/617629	U. S. A.	2/9/2015	2/28/2017	Method and apparatus for transmitting or detecting a primary synchronization signal
	15/410439	U. S. A.	1/19/2017		Method and apparatus for transmitting or detecting a primary synchronization signal
	16/047566	U. S. A.	7/27/2018		Method and apparatus for transmitting or detecting a primary synchronization signal
ZL201410058260.4	201410058260.4	China	2/20/2014	4/12/2017	Method and base station for transmitting synchronizing signals, method and terminal for receiving synchronizing signals
10-0925440	10-2008-0124083	Korea	12/8/2008	10/30/2009	Method for allocating physical hybrid arq indicator channel
ZL200920100237.1	200980100237.1	China	2/26/2010	8/6/2014	Method for allocating physical hybrid automatic repeat request indicator channel
ZL201310401771.7	201310401771.7	China	9/6/2013	9/21/2016	Method for allocating physical hybrid automatic repeat request indicator channel
	201410161944.7	China	4/22/2014		Method for allocating physical hybrid automatic repeat request indicator channel
	9151237.6	E.P.O.	1/23/2009		Method for allocating physical hybrid automatic repeat request indicator channel
	9151237.6	Germany	1/23/2009		Method for allocating physical hybrid automatic repeat request indicator channel
	9151237.6	France	1/23/2009		Method for allocating physical hybrid automatic repeat request indicator channel
	9151237.6	United Kingdom	1/23/2009		Method for allocating physical hybrid automatic repeat request indicator channel
	9151237.6	Netherlands	1/23/2009		Method for allocating physical hybrid automatic repeat request indicator channel
	PCT/KR2009/000333	P.C.T.	1/22/2009		Method for allocating physical hybrid automatic repeat request indicator channel
1384799	98102911.0	Taiwan	1/23/2009	2/1/2013	Method for allocating physical hybrid automatic repeat request indicator channel
7778148	12/361125	U. S. A.	1/23/2009	8/17/2010	Method for allocating physical hybrid automatic repeat request indicator channel
7881222	12/767616	U. S. A.	4/26/2010	2/1/2011	Method for allocating physical hybrid automatic repeat request indicator channel
8423044	12/987896	U. S. A.	1/10/2011	4/16/2013	Method for allocating physical hybrid automatic repeat request indicator channel

Patent No.	Serial No.	Country	Filing Date	Issue Date	Title
9801770	13/850141	U. S. A.	3/25/2013	4/7/2015	Method for allocating physical hybrid automatic repeat request indicator channel
9276727	14/245209	U. S. A.	4/4/2014	3/1/2016	Method for allocating physical hybrid automatic repeat request indicator channel
9571254	15/013772	U. S. A.	2/2/2016	2/14/2017	Method for allocating physical hybrid automatic repeat request indicator channel
9831997	15/403983	U. S. A.	1/11/2017	11/28/2017	Method for allocating physical hybrid automatic repeat request indicator channel
10-1488015	10-2008-0008165	Korea	1/25/2008	1/23/2015	Method for performing handover procedure and creating data
2083602	8169380.6	Germany	11/18/2008	7/16/2014	Method for performing handover procedure and creating data
2765804	14167099.2	Germany	5/6/2014	7/13/2016	Method for performing handover procedure and creating data
2083602	8169380.6	E.P.O.	11/18/2008	7/16/2014	Method for performing handover procedure and creating data
2765804	14167099.2	E.P.O.	5/6/2014	7/13/2016	Method for performing handover procedure and creating data
2083602	8169380.6	France	11/18/2008	7/16/2014	Method for performing handover procedure and creating data
2765804	14167099.2	France	5/6/2014	7/13/2016	Method for performing handover procedure and creating data
2083602	8169380.6	United Kingdom	11/18/2008	7/16/2014	Method for performing handover procedure and creating data
2765804	14167099.2	United Kingdom	5/6/2014	7/13/2016	Method for performing handover procedure and creating data
	PCT/KR2008/006700	P.C.T.	11/13/2008		Method for performing handover procedure and creating data
1406576	97144512.0	Taiwan	11/18/2008	8/21/2013	Method for performing handover procedure and creating data
9072015	12/323902	U. S. A.	11/26/2008	6/30/2015	Method for performing handover procedure and creating data
9326215	14/721962	U. S. A.	5/26/2015	4/26/2016	Method for performing handover procedure and creating data
9681333	15/075695	U. S. A.	3/21/2016	6/13/2017	Method for performing handover procedure and creating data
10-1297535	10-2012-7014257	Korea	6/1/2012	8/9/2013	Method for power saving in wireless local area network and apparatus for the same
2011304260	2011304260.0	Australia	3/19/2012	5/24/2014	Method for power saving in wireless local area network and apparatus for the same
2772476	2772476.0	Canada	3/27/2012	12/22/2015	Method for power saving in wireless local area network and apparatus for the same
ZL201120003961.2	201180003961.2	China	3/22/2012	1/14/2015	Method for power saving in wireless local area network and apparatus for the same
2625904	11822858.4	Czech Republic	3/8/2012	6/29/2016	Method for power saving in wireless local area network and apparatus for the same
2625904	11822858.4	Germany	3/8/2012	6/29/2016	Method for power saving in wireless local area network and apparatus for the same
2625904	11822858.4	Estonia	3/8/2012	6/29/2016	Method for power saving in wireless local area network and apparatus for the same
2625904	11822858.4	E.P.O.	3/8/2012	6/29/2016	Method for power saving in wireless local area network and apparatus for the same
2625904	11822858.4	Spain	3/8/2012	6/29/2016	Method for power saving in wireless local area network and apparatus for the same

Patent No.	Serial No.	Country	Filing Date	Issue Date	Title
2625904	11822858.4	Finland	3/8/2012	6/29/2016	Method for power saving in wireless local area network and apparatus for the same
2625904	11822858.4	France	3/8/2012	6/29/2016	Method for power saving in wireless local area network and apparatus for the same
2625904	11822858.4	United Kingdom	3/8/2012	6/29/2016	Method for power saving in wireless local area network and apparatus for the same
2625904	11822858.4	Greece	3/8/2012	6/29/2016	Method for power saving in wireless local area network and apparatus for the same
2625904	11822858.4	Hungary	3/8/2012	6/29/2016	Method for power saving in wireless local area network and apparatus for the same
2625904	11822858.4	Italy	3/8/2012	6/29/2016	Method for power saving in wireless local area network and apparatus for the same
2625904	11822858.4	Netherlands	3/8/2012	6/29/2016	Method for power saving in wireless local area network and apparatus for the same
	PCT/KR2011/005679	P. C. T.	8/2/2011		Method for power saving in wireless local area network and apparatus for the same
2625904	11822858.4	Poland	3/8/2012	6/29/2016	Method for power saving in wireless local area network and apparatus for the same
2625904	11822858.4	Sweden	3/8/2012	6/29/2016	Method for power saving in wireless local area network and apparatus for the same
2625904	11822858.4	Slovak Republic	3/8/2012	6/29/2016	Method for power saving in wireless local area network and apparatus for the same
2625904	11822858.4	Turkey	3/8/2012	6/29/2016	Method for power saving in wireless local area network and apparatus for the same
8634336	13/395351	U. S. A.	3/9/2012	1/21/2014	Method for power saving in wireless local area network and apparatus for the same
8953510	14/104969	U. S. A.	12/12/2013	2/10/2015	Method for power saving in wireless local area network and apparatus for the same
9173169	14/595876	U. S. A.	1/5/2015	10/27/2015	Method for power saving in wireless local area network and apparatus for the same
9439149	14/866195	U. S. A.	9/25/2015	9/6/2016	Method for power saving in wireless local area network and apparatus for the same
9655051	15/251858	U. S. A.	8/30/2016	5/16/2017	Method for power saving in wireless local area network and apparatus for the same
	201410778673.X	China	12/15/2014		Method for power saving in wireless local area network and wireless apparatus
8761286	12/673745	U. S. A.	2/16/2010	6/24/2014	Method for transmitting channel quality information in a multiple input multiple output system
8964878	13/664336	U. S. A.	10/30/2012	2/24/2015	Method for transmitting channel quality information in a multiple input multiple output system
9148210	14/589905	U. S. A.	1/5/2015	9/29/2015	Method for transmitting channel quality information in a multiple input multiple output system
ZL200760004705.9	200780004705.9	China	2/6/2007	8/3/2011	Method of allocating radio resources in multi-carrier system
ZL201010568856.0	201010568856.0	China	11/30/2010	4/22/2015	Method of allocating radio resources in multi-carrier system
1987636	7708773.2	Germany	9/2/2008	4/8/2015	Method of allocating radio resources in multi-carrier system
2534038	12181897.3	Germany	9/11/2012	8/3/2016	Method of allocating radio resources in multi-carrier system
2375590	11173053.7	Germany	7/7/2011	8/3/2016	Method of allocating radio resources in multi-carrier system

Patent No.	Serial No.	Country	Filing Date	Issue Date	Title
1987636	7708773.2	E.P.O	9/2/2008	4/8/2015	Method of allocating radio resources in multi-carrier system
2375590	11173053.7	E.P.O	7/7/2011	8/3/2016	Method of allocating radio resources in multi-carrier system
2536038	12183897.3	E.P.O	9/11/2012	8/3/2016	Method of allocating radio resources in multi-carrier system
3076740	16171235.1	E.P.O	5/25/2016	8/15/2018	Method of allocating radio resources in multi-carrier system
3076740	16171235.1	France	5/25/2016	8/15/2018	Method of allocating radio resources in multi-carrier system
3076740	16171235.1	Germany	5/25/2016	8/15/2018	Method of allocating radio resources in multi-carrier system
3076740	16171235.1	Netherlands	5/25/2016	8/15/2018	Method of allocating radio resources in multi-carrier system
3076740	16171235.1	United Kingdom	5/25/2016	8/15/2018	Method of allocating radio resources in multi-carrier system
2536038	12183897.3	Spain	9/11/2012	8/3/2016	Method of allocating radio resources in multi-carrier system
2536038	12183897.3	Finland	9/11/2012	8/3/2016	Method of allocating radio resources in multi-carrier system
2375590	11173053.7	Finland	7/7/2011	8/3/2016	Method of allocating radio resources in multi-carrier system
1987636	7708773.2	France	9/2/2008	4/8/2015	Method of allocating radio resources in multi-carrier system
2536038	12183897.3	France	9/11/2012	8/3/2016	Method of allocating radio resources in multi-carrier system
2375590	11173053.7	France	7/7/2011	8/3/2016	Method of allocating radio resources in multi-carrier system
1987636	7708773.2	United Kingdom	9/2/2008	4/8/2015	Method of allocating radio resources in multi-carrier system
2536038	12183897.3	United Kingdom	9/11/2012	8/3/2016	Method of allocating radio resources in multi-carrier system
2375590	11173053.7	United Kingdom	7/7/2011	8/3/2016	Method of allocating radio resources in multi-carrier system
1987636	7708773.2	Italy	9/2/2008	4/8/2015	Method of allocating radio resources in multi-carrier system
2536038	12183897.3	Italy	9/11/2012	8/3/2016	Method of allocating radio resources in multi-carrier system
2375590	11173053.7	Italy	7/7/2011	8/3/2016	Method of allocating radio resources in multi-carrier system
4903228	2008-553178	Japan	2/6/2007	1/13/2012	Method of allocating radio resources in multi-carrier system
1987636	7708773.2	Netherlands	9/2/2008	4/8/2015	Method of allocating radio resources in multi-carrier system
2536038	12183897.3	Netherlands	9/11/2012	8/3/2016	Method of allocating radio resources in multi-carrier system
2375590	11173053.7	Netherlands	7/7/2011	8/3/2016	Method of allocating radio resources in multi-carrier system
	PCT/KR2007/000623	P.C.T	2/6/2007		Method of allocating radio resources in multi-carrier system
2536038	12183897.3	Sweden	9/11/2012	8/3/2016	Method of allocating radio resources in multi-carrier system
2375590	11173053.7	Sweden	7/7/2011	8/3/2016	Method of allocating radio resources in multi-carrier system

Patent No.	Serial No.	Country	Filing Date	Issue Date	Title
8467728	11871980	U. S. A.	2/6/2007	6/18/2013	Method of allocating radio resources in multi-carrier system
8064834	12608482	U. S. A.	2/2/2010	11/22/2011	Method of allocating radio resources in multi-carrier system
9215052	13257036	U. S. A.	4/4/2013	12/15/2015	Method of allocating radio resources in multi-carrier system
	14935100	U. S. A.	11/6/2015		Method of allocating radio resources in multi-carrier system
10-0934656	10-2006-0011296	Korea	2/6/2006	12/23/2009	Method of allocating radio resources in multi-carrier system
2427105	2010109109.0	Russian Federation	3/12/2010	8/20/2011	Method of transmitting data over uplink channel and buffer status reports in wireless communication system and wireless device for implementing said method
2026617	8159464.0	Austria	7/1/2008	7/29/2009	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
2026617	8159464.0	Belgium	7/1/2008	7/29/2009	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
2026617	8159464.0	Switzerland	7/1/2008	7/29/2009	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
ZL200880162706.1	200880102706.1	China	2/9/2010	11/13/2013	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
2026617	8159464.0	Germany	7/1/2008	7/29/2009	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
2026617	8159464.0	Germany	7/1/2008	7/29/2009	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
2091281	9161802.5	Germany	6/3/2009	2/17/2010	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
2026617	8159464.0	E.P.O.	7/1/2008	7/29/2009	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
2091281	9161802.5	E.P.O.	6/3/2009	2/17/2010	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
2026617	8159464.0	Spain	7/1/2008	7/29/2009	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
2091281	9161802.5	Spain	6/3/2009	2/17/2010	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method

Patent No.	Serial No.	Country	Filing Date	Issue Date	Title
2026617	8159464.0	Finland	7/1/2008	7/29/2009	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
2091281	9161802.5	Finland	6/3/2009	2/17/2010	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
2026617	8159464.0	France	7/1/2008	7/29/2009	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
2091281	9161802.5	France	6/3/2009	2/17/2010	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
2026617	8159464.0	United Kingdom	7/1/2008	7/29/2009	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
2091281	9161802.5	United Kingdom	6/3/2009	2/17/2010	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
2026617	8159464.0	Greece	7/1/2008	7/29/2009	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
2026617	8159464.0	Ireland	7/1/2008	7/29/2009	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
2026617	8159464.0	Italy	7/1/2008	7/29/2009	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
2091281	9161802.5	Italy	6/3/2009	2/17/2010	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
287873	MX/A/2010/001342	Mexico	7/17/2008	6/29/2011	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
2026617	8159464.0	Netherlands	7/1/2008	7/29/2009	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
2091281	9161802.5	Netherlands	6/3/2009	2/17/2010	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
	PCT/KR2008/004187	P.C.T	7/17/2008		Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
2026617	8159464.0	Sweden	7/1/2008	7/29/2009	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
2091281	9161802.5	Sweden	6/3/2009	2/17/2010	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method

Patent No.	Serial No.	Country	Filing Date	Issue Date	Title
					system, wireless device for implementing such method
2026617	8159464.0	Turkey	7/1/2008	7/29/2009	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
1377818	97129891.0	Taiwan	8/6/2008	11/21/2012	Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
	PI0815152	BRAZIL	2/8/2010		Method of transmitting uplink data and buffer status reports in a wireless communications system, wireless device for implementing such method
1430604	96104327.0	Taiwan	2/6/2007	3/11/2014	Method, user equipment, and base station of allocating radio resources in multi-carrier system
	61/023895	U. S. A.	1/28/2008		PHICH RESOURCE ALLOCATION AND INDEXING
5296782	2010-512096	Japan	12/10/2009	6/21/2013	Physical hybrid arq indicator channel allocation method
6148360	2016-015814	Japan	1/29/2016	5/26/2017	Physical hybrid automatic repeat request indication channel allocation method
5908939	2014-091681	Japan	4/25/2014	4/1/2016	Physical hybrid automatic repeat request indicator channel allocation method
5281700	2012-017558	Japan	1/31/2012	5/31/2013	Radio communication manner for transmitting the sequence of data unit between wireless installation and network
1936902	7024640.0	Austria	12/19/2007	2/29/2012	Sequence generating method for detection and method for transmitting and receiving signals using the same
1936902	7024640.0	Belgium	12/19/2007	2/29/2012	Sequence generating method for detection and method for transmitting and receiving signals using the same
1936902	7024640.0	Bulgaria	12/19/2007	2/29/2012	Sequence generating method for detection and method for transmitting and receiving signals using the same
1936902	7024640.0	Germany	12/19/2007	2/29/2012	Sequence generating method for detection and method for transmitting and receiving signals using the same
1936902	7024640.0	Denmark	12/19/2007	2/29/2012	Sequence generating method for detection and method for transmitting and receiving signals using the same
1936902	7024640.0	E.P.O	12/19/2007	2/29/2012	Sequence generating method for detection and method for transmitting and receiving signals using the same
2424183	11009223.6	E.P.O	11/22/2011	2/7/2018	Sequence generating method for detection and method for transmitting and receiving signals using the same
1936902	7024640.0	Spain	12/19/2007	2/29/2012	Sequence generating method for detection and method for transmitting and receiving signals using the same
1936902	7024640.0	Finland	12/19/2007	2/29/2012	Sequence generating method for detection and method for transmitting and receiving signals using the same
1936902	7024640.0	France	12/19/2007	2/29/2012	Sequence generating method for detection and method for transmitting and receiving signals using the same

Patent No.	Serial No.	Country	Filing Date	Issue Date	Title
1936902	7024640.0	Greece	12/19/2007	2/29/2012	Sequence generating method for detection and method for transmitting and receiving signals using the same
1117313	8112103.1	Hong Kong	11/5/2008	9/21/2012	Sequence generating method for detection and method for transmitting and receiving signals using the same
1936902	7024640.0	Ireland	12/19/2007	2/29/2012	Sequence generating method for detection and method for transmitting and receiving signals using the same
1936902	7024640.0	Italy	12/19/2007	2/29/2012	Sequence generating method for detection and method for transmitting and receiving signals using the same
1936902	7024640.0	Monaco	12/19/2007	2/29/2012	Sequence generating method for detection and method for transmitting and receiving signals using the same
1936902	7024640.0	Netherlands	12/19/2007	2/29/2012	Sequence generating method for detection and method for transmitting and receiving signals using the same
1936902	7024640.0	Poland	12/19/2007	2/29/2012	Sequence generating method for detection and method for transmitting and receiving signals using the same
1936902	7024640.0	Portugal	12/19/2007	2/29/2012	Sequence generating method for detection and method for transmitting and receiving signals using the same
1936902	7024640.0	Sweden	12/19/2007	2/29/2012	Sequence generating method for detection and method for transmitting and receiving signals using the same
1936902	7024640.0	Turkey	12/19/2007	2/29/2012	Sequence generating method for detection and method for transmitting and receiving signals using the same
2424183	11009223.6	Germany	11/22/2011	2/7/2018	Sequence generating method for detection and method for transmitting and receiving signals using the same
2424183	11009223.6	Spain	11/22/2011	2/7/2018	Sequence generating method for detection and method for transmitting and receiving signals using the same
2424183	11009223.6	United Kingdom	11/22/2011	2/7/2018	Sequence generating method for detection and method for transmitting and receiving signals using the same
2424183	11009223.6	Czech Republic	11/22/2011	2/7/2018	Sequence generating method for detection and method for transmitting and receiving signals using the same
2424183	11009223.6	Hungary	11/22/2011	2/7/2018	Sequence generating method for detection and method for transmitting and receiving signals using the same
2424183	11009223.6	Turkey	11/22/2011	2/7/2018	Sequence generating method for detection and method for transmitting and receiving signals using the same
2424183	11009223.6	Slovak Republic	11/22/2011	2/7/2018	Sequence generating method for detection and method for transmitting and receiving signals using the same
2424183	11009223.6	Estonia	11/22/2011	2/7/2018	Sequence generating method for detection and method for transmitting and receiving signals using the same
ZL200780047378.5	200780047378.5	China	6/19/2009	3/26/2014	Sequence generating method for efficient detection and method for transmitting and receiving signals using the same

Patent No.	Serial No.	Country	Filing Date	Issue Date	Title
2458418	912511.3	United Kingdom	7/17/2009	8/3/2011	Sequence generating method for efficient detection and method for transmitting and receiving signals using the same
	PCT/KR2007/006638	P.C.T	12/18/2007		Sequence generating method for efficient detection and method for transmitting and receiving signals using the same
1439161	96148826.0	Taiwan	12/19/2007	5/21/2014	Sequence generating method for efficient detection and method for transmitting and receiving signals using the same
8130863	11/960556	U. S. A.	12/19/2007	3/6/2012	Sequence generating method for efficient detection and method for transmitting and receiving signals using the same
8295389	12/547437	U. S. A.	8/25/2009	10/23/2012	Sequence generating method for efficient detection and method for transmitting and receiving signals using the same
8520768	13/333877	U. S. A.	12/21/2011	8/27/2013	Sequence generating method for efficient detection and method for transmitting and receiving signals using the same
2117194	9009497.0	Germany	7/22/2009	4/23/2014	Signal transmission method for use in a communication system
2117194	9009497.0	E.P.O	7/22/2009	4/23/2014	Signal transmission method for use in a communication system
2117194	9009497.0	Finland	7/22/2009	4/23/2014	Signal transmission method for use in a communication system
2117194	9009497.0	France	7/22/2009	4/23/2014	Signal transmission method for use in a communication system
2117194	9009497.0	Italy	7/22/2009	4/23/2014	Signal transmission method for use in a communication system
2117194	9009497.0	Netherlands	7/22/2009	4/23/2014	Signal transmission method for use in a communication system
2117194	9009497.0	Sweden	7/22/2009	4/23/2014	Signal transmission method for use in a communication system
5031037	2009-540177	Japan	12/18/2007	7/6/2012	Signal transmitting and receiving method using the same and a sequence generation method for efficient detection
5547635	2010-520944	Japan	2/16/2010	5/23/2014	The channel quality information (cqi) being the manner which is fed back
5647195	2012-179423	Japan	8/13/2012	11/14/2014	The channel quality information feedback method in multi-input multi-output system, data transmission method, user equipment and base stations
	2013-536531	Japan	4/26/2013		Transmitter and power adjustment method of measurement reference signal
1466484	101105675.0	Taiwan	2/21/2012	12/21/2014	Wireless communication device and method for transmitting a sequence of data units between a wireless device and a network
2290864	10194238.1	Belgium	12/8/2010	2/19/2014	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
ZL200880126173.0	200880126173.0	China	8/3/2010	8/28/2013	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
2086149	8159388.1	Germany	7/1/2008	3/2/2011	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
2290864	10194238.1	Germany	12/8/2010	2/19/2014	Wireless communication method for transmitting a sequence of data units between a wireless device and a network

Patent No.	Serial No.	Country	Filing Date	Issue Date	Title
2290863	10194237.3	Germany	12/8/2010	3/5/2014	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
2086149	8159388.1	E.P.O	7/1/2008	3/2/2011	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
2290863	10194237.3	E.P.O	12/8/2010	3/5/2014	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
2290864	10194238.1	E.P.O	12/8/2010	2/19/2014	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
2086149	8159388.1	Spain	7/1/2008	3/2/2011	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
2290864	10194238.1	Spain	12/8/2010	2/19/2014	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
2086149	8159388.1	Finland	7/1/2008	3/2/2011	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
2086149	8159388.1	France	7/1/2008	3/2/2011	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
2290864	10194238.1	France	12/8/2010	2/19/2014	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
2290863	10194237.3	France	12/8/2010	3/5/2014	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
2086149	8159388.1	United Kingdom	7/1/2008	3/2/2011	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
2290864	10194238.1	United Kingdom	12/8/2010	2/19/2014	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
2290863	10194237.3	United Kingdom	12/8/2010	3/5/2014	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
2086149	8159388.1	Italy	7/1/2008	3/2/2011	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
2290864	10194238.1	Italy	12/8/2010	2/19/2014	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
2290863	10194237.3	Italy	12/8/2010	3/5/2014	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
2086149	8159388.1	Netherlands	7/1/2008	3/2/2011	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
2290864	10194238.1	Netherlands	12/8/2010	2/19/2014	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
2290863	10194237.3	Netherlands	12/8/2010	3/5/2014	Wireless communication method for transmitting a sequence of data units between a wireless device and a network

Patent No.	Serial No.	Country	Filing Date	Issue Date	Title
2085149	8159388.1	Sweden	7/1/2008	3/2/2011	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
3387285	97127447.0	Taiwan	7/18/2008	2/21/2013	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
7911959	12/195253	U. S. A.	8/20/2008	3/22/2011	Wireless communication method for transmitting a sequence of data units between a wireless device and a network
	PI08221863	Brazil	7/23/2010		Wireless communication method for transmitting a sequence of data units between a wireless device and a network
	PCT/KR2008/004173	P.C.T.	7/16/2008		WIRELESS COMMUNICATION METHOD FOR TRANSMITTING A SEQUENCE OF DATA UNITS BETWEEN A WIRELESS DEVICE AND A NETWORK
290625	MX/A/2010/007947	Mexico	7/16/2008	9/29/2011	Wireless communication method for transmitting a sequence of data units between a wireless device and a network.
7792130	12/189559	U. S. A.	8/11/2008	9/7/2010	Wireless device and method of transmitting uplink data and buffer status reports in a wireless communications system
8681694	12/537132	U. S. A.	8/6/2009	3/25/2014	Wireless device and method of transmitting uplink data and buffer status reports in a wireless communications system
8913608	13/214629	U. S. A.	8/19/2011	12/16/2014	Wireless device and method of transmitting uplink data and buffer status reports in a wireless communications system
9549353	14/525629	U. S. A.	10/28/2014	1/17/2017	Wireless device and method of transmitting uplink data and buffer status reports in a wireless communications system
	15/248815	U. S. A.	7/26/2016		Wireless device and method of transmitting uplink data and buffer status reports in a wireless communications system
4863530	2010-502037	Japan	7/17/2008	11/18/2011	Wireless devices and base stations for handover method and to implement the method for link failure recovery
5142417	2011-248103	Japan	7/17/2008	11/30/2012	Wireless devices and base stations for handover method and to implement the method for link failure recovery

In addition, Assignor agrees to and hereby does sell, assign, transfer and convey unto Assignee all rights (i) in and to causes of action and enforcement rights for the Patent Rights including all rights to pursue damages, injunctive relief and other remedies for past, present and future infringement of the Patent Rights, (ii) the right to apply (or continue prosecution) in any and all countries of the world for patents, design patents, utility models, certificates of invention or other governmental grants for the Patent Rights, including without limitation under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement or understanding, and (iii) the rights, if any, to revive prosecution of any abandoned Patent Rights.

Assignor also hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents or certificates of invention or equivalent which may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

The terms and conditions of this Assignment will inure to the benefit of Assignee, its successors, assigns and other legal representatives, and will be binding upon Assignor, its successor, assigns and other legal representatives.

IN WITNESS WHEREOF this Assignment of Patent Rights is executed at _____ on _____


ASSIGNOR

By: _____

Name: _____

Title: _____

Dohyun Jung
DOHYUN JUNG
PRESIDENT
LG Electronics Inc.
CFO I



(Signature MUST be notarized)

ASSIGNEE

By: _____

Name: _____

Title: _____



등부 2018년 제 4749호

Registered No. 2018-4749

인 증

NOTARIAL CERTIFICATE

위 양도증 ----- 에
기재된 촉탁인 엘지전자 주식회사 ---
대표이사 경도현 -----

JUN,SUNGMI-----

attorney-in-fact of
DOHYUN JUNG President of -----
LG ELECTRONICS INC. -----

의 대리인 전성미 ----- 은
본 공증인의 면전에서 위 본인이 ---
기명날인한 것임을 확인하였다.

appeared before me and admitted
said principal's subscription to
the attached ASSIGNMENT TO WILD
GUARD LTD. -----

2018년 12월 20일

This is hereby attested on this

이 사무소에서 위 인증한다.

20th day of Dec. 2018 at this office.

공증
인가 동화법무법인

Dong Hwa Law Corporation
Seoul Central

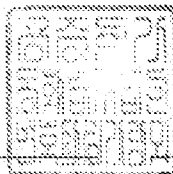
서울중앙지방검찰청

District Prosecutor's Office

서울 서초구 강남대로 439

439, Gangnam-daero, Seocho-gu,
Seoul, Korea

김가람모



Kim Ka Ram Mo

공증담당변호사

Signature of the Notary Public

김 가 램 모

KIM KA RAM MOE

본 사무소는 인가번호 제3790호에 의거하여
1987년 05월 01일 법무부 장관으로부터
공증인 업무를 행할 것을 인가 받았다.

This office has been authorized by the
Minister of Justice, the Republic of
Korea, to act as Notary Public Since
1, May. 1987 Under Law No.3790,