# 505544633 06/26/2019

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5591430

UBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT			
ATURE OF CONVE	YANCE:	ASSIGNMENT	ASSIGNMENT			
CONVEYING PART	Υ DATA					
		Name	Execution Date			
IPWIRELESS, INC.			04/27/2012			
RECEIVING PARTY	<b>DATA</b>					
Name:	INTELI	ECTUAL VENTURES HOLDING 81	LLC			
Street Address:	7251 V	/. LAKE MEAD BLVD., SUITE 300				
City:	LAS VI	EGAS				
State/Country:	NEVAD	A				
Postal Code:	89128					
PROPERTY NUMBE	ERS Total: 1					
Property Ty	/pe	Number				
Application Numbe	er:	16410614				
CORRESPONDENC	CE DATA	(202)371-2540	unsuccessful. it will be sent			
CORRESPONDENC Fax Number: Correspondence wi using a fax number	E DATA	(202)371-2540 <b>the e-mail address first; if that is</b> <i>I; if that is unsuccessful, it will be</i>				
CORRESPONDENC Fax Number: <i>Correspondence wi</i> <i>using a fax number</i> Phone:	E DATA	(202)371-2540 <b>the e-mail address first; if that is</b> <b>i; if that is unsuccessful, it will be</b> 202-371-2600	sent via US Mail.			
CORRESPONDENC Fax Number: <i>Correspondence wi using a fax number</i> Phone: Email:	CE DATA ill be sent to r, if provided	(202)371-2540 <b>5 the e-mail address first; if that is</b> <b>1; if that is unsuccessful, it will be</b> 202-371-2600 rhicks@sternekessler.com, Imiller@a	<i>sent via US Mail.</i> sternekessler.com			
CORRESPONDENC Fax Number: <i>Correspondence wi using a fax number</i> Phone: Email: Correspondent Nan	CE DATA ill be sent to r, if provided	(202)371-2540 <b>5 the e-mail address first; if that is</b> <b>1; if that is unsuccessful, it will be</b> 202-371-2600 rhicks@sternekessler.com, Imiller@ STERNE, KESSLER, GOLDSTEIN	<i>sent via US Mail.</i> sternekessler.com			
CORRESPONDENC Fax Number: <i>Correspondence wi using a fax number</i> Phone: Email:	CE DATA ill be sent to r, if provided	(202)371-2540 <b>5 the e-mail address first; if that is</b> <b>1; if that is unsuccessful, it will be</b> 202-371-2600 rhicks@sternekessler.com, Imiller@a	<i>sent via US Mail.</i> sternekessler.com			
CORRESPONDENC Fax Number: <i>Correspondence wi</i> <i>using a fax number</i> Phone: Email: Correspondent Nan Address Line 1:	CE DATA ill be sent to r, if provided me:	(202)371-2540 <b>b the e-mail address first; if that is</b> <b>i; if that is unsuccessful, it will be</b> 202-371-2600 rhicks@sternekessler.com, lmiller@ STERNE, KESSLER, GOLDSTEIN a 1100 NEW YORK AVENUE, NW	<i>sent via US Mail.</i> sternekessler.com			
CORRESPONDENC Fax Number: <i>Correspondence wi using a fax number</i> Phone: Email: Correspondent Nan Address Line 1: Address Line 4:	CE DATA ill be sent to r, if provided me: T NUMBER:	(202)371-2540 <b>b the e-mail address first; if that is</b> <b>i; if that is unsuccessful, it will be</b> 202-371-2600 rhicks@sternekessler.com, Imiller@ STERNE, KESSLER, GOLDSTEIN & 1100 NEW YORK AVENUE, NW WASHINGTON, D.C. 20005	<i>sent via US Mail.</i> sternekessler.com			
CORRESPONDENC Fax Number: <i>Correspondence wi using a fax number</i> Phone: Email: Correspondent Nan Address Line 1: Address Line 4:	CE DATA ill be sent to r, if provided me: T NUMBER:	(202)371-2540 <b>o the e-mail address first; if that is</b> <b>i; if that is unsuccessful, it will be</b> 202-371-2600 rhicks@sternekessler.com, Imiller@- STERNE, KESSLER, GOLDSTEIN & 1100 NEW YORK AVENUE, NW WASHINGTON, D.C. 20005 3059.7430007	<i>sent via US Mail.</i> sternekessler.com			
CORRESPONDENC Fax Number: <i>Correspondence wi</i> <i>using a fax number</i> Phone: Email: Correspondent Nan Address Line 1: Address Line 4: TTORNEY DOCKET	CE DATA ill be sent to r, if provided me: T NUMBER:	(202)371-2540 <b>b the e-mail address first; if that is</b> <b>if that is unsuccessful, it will be</b> 202-371-2600 rhicks@sternekessler.com, Imiller@- STERNE, KESSLER, GOLDSTEIN & 1100 NEW YORK AVENUE, NW WASHINGTON, D.C. 20005 3059.7430007 ROSS G. HICKS	sent via US Mail. sternekessler.com			

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### ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, IPWireless, Inc., a Delaware corporation, with an office at 90 New Montgomery Street, Suite 315, San Francisco, CA 94105 ("Assignor"), does hereby sell, assign, transfer, and convey unto Intellectual Ventures Holding 81 LLC, a Nevada limited liability company, with an address at 7251 W Lake Mead Blvd, Ste 300, Las Vegas, NV 89128 ("Assignee"), or its designees, all right, title, and interest that exist today and may exist in the future in and to any and all of the following (collectively, the "Patent Rights"):

(a) the provisional patent applications, patent applications and patents listed in the table below (the "*Patents*");

Patent or application no.	Country	Filing Date	Title of Patent and Inventors
CN200380102352.8	CN	11/3/2003	Arrangement and method for sequence production in a spread spectrum communication system
			Peter Bruce Darwood; Alan Edward Jones
EP03769702.6	EP	11/3/2003	Arrangement and method for sequence production in a spread spectrum communication system
			Peter Bruce Darwood; Alan Edward Jones
JP4383348	ЛР	10/2/2009 (11/3/2003)	Sequence production in a spread spectrum communication system
(JP2004-547824)			Peter Bruce Darwood; Alan Edward Jones
KR10-1060569 (KR10-2005-7007395)	KR	8/24/2011 (11/3/2003)	Arrangement and method for sequence production in apread spectrum communication system
· · · ·			Peter Bruce Darwood; Alan Edward Jones
7792179 (10/532162)	US	9/7/2010 (11/3/2003)	Arrangement and method for sequence production in a spread spectrum communication system
			Peter Bruce Darwood; Alan Edward Jones

## PATENT REEL: 049591 FRAME: 0629

7062278 (10/279697)	US	6/13/2006 (10/24/2002)	Method and arrangement for allocation of resources in a radio communication system Timothy James Speight
7286832 (11/241043)	US	10/23/2007 (9/30/2005)	Method and arrangement for allocation of resources in a radio communication system Timothy James Speight
DE60212197.3 (DE60212197.3)	DE	6/7/2006 (10/24/2002)	Method and arrangement for allocation of resources in a radio communication system Timothy James Speight
ES1477040 (ES02772553.0)	ES	6/7/2006 (10/24/2002)	Method and arrangement for allocation of resources in a radio communication system Timothy James Speight
FR1477040 (FR02772553.0)	FR	6/7/2006 (10/24/2002)	Method and arrangement for allocation of resources in a radio communication system Timothy James Speight
GB1477040 (GB02772553.0)	GB	6/7/2006 (10/24/2002)	Method and arrangement for allocation of resources in a radio communication system Timothy James Speight
IT1477040 (IT02772553.0)	IT	6/7/2006 (10/24/2002)	Method and arrangement for allocation of resources in a radio communication system Timothy James Speight
DE60321474.6 (DE60321474.6)	DE	6/4/2008 (10/1/2003)	Arrangement and method for session control in wireless communication network Andrew Gordon Williams
ES1550282 (ES03756551.2)	ES	6/4/2008 (10/1/2003)	Arrangement and method for session control in wireless communication network

			Andrew Gordon Williams
FR1550282 (FR03756551.2)	FR	6/4/2008 (10/1/2003)	Arrangement and method for session control in wireless communication network Andrew Gordon Williams
GB1550282 (GB03756551.2)	GB	6/4/2008 (10/1/2003)	Arrangement and method for session control in wireless communication network Andrew Gordon Williams
IT1550282 (IT03756551.2)	IT	6/4/2008 (10/1/2003)	Arrangement and method for session control in wireless communication network
8068421 (10/529961)	US	11/29/2011 (10/1/2003)	Andrew Gordon WilliamsArrangement and method for session control in wireless communication networkAndrew Gordon Williams
13/286825	US	11/1/2011	Arrangement and method for session control in wireless communication network Andrew Gordon Williams
EP05744934.0	EP	4/7/2005	Determining whether to initiate a multicast service in a neighbouring cell based on a user message received from a user equipment Derek Richards; Peter Legg
7835330 (10/873065)	US	11/16/2010 (6/21/2004)	Accessing a data network through a cellular communication system Andrew James Parker
EP05760931.5	EP	6/16/2005	A method and apparatus for accessing a data network through a cellular communication system Andrew James Parker

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10/917968	US	8/12/2004	Power control in a wireless communication system Nicholas William Anderson
CN200580027091.7	CN	8/10/2005	Combined open loop/closed loop power control in a wireless communication system
CN2012100740	CN	8/10/2005	Nicholas William AndersonCombined open loop/closed looppower control in a wirelesscommunication systemNicholas William Anderson
DE602005031400.8 (DE602005031400.8)	DE	11/23/2011 (8/10/2005)	The power control with the combination of open loop/closed loop in a wireless communication system Nicholas William Anderson
ES1779545 (ES05801370.7)	ES	11/23/2011 (8/10/2005)	The power control with the combination of open loop/closed loop in a wireless communication system Nicholas William Anderson
FI1779545 (FI05801370.7)	FI	11/23/2011 (8/10/2005)	The power control with the combination of open loop/closed loop in a wireless communication system Nicholas William Anderson
FR1779545 (FR05801370.7)	FR	11/23/2011 (8/10/2005)	The power control with the combination of open loop/closed loop in a wireless communication system Nicholas William Anderson
GB1779545 (GB05801370.7)	GB	11/23/2011 (8/10/2005)	The power control with the combination of open loop/closed loop in a wireless communication system Nicholas William Anderson

IT1779545 (IT05801370.7)	IT	11/23/2011 (8/10/2005)	The power control with the combination of open loop/closed loop in a wireless communication system
NL1779545 (NL05801370.7)	NL	11/23/2011 (8/10/2005)	Nicholas William Anderson The power control with the combination of open loop/closed loop in a wireless communication system Nicholas William Anderson
PL1779545 (PL05801370.7)	PL	11/23/2011 (8/10/2005)	The power control with the combination of open loop/closed loop in a wireless communication system Nicholas William Anderson
SE1779545 (SE05801370.7)	SE	11/23/2011 (8/10/2005)	The power control with the combination of open loop/closed loop in a wireless communication system Nicholas William Anderson
TR1779545 (TR05801370.7)	TR	11/23/2011 (8/10/2005)	The power control with the combination of open loop/closed loop in a wireless communication system Nicholas William Anderson
AT2271155 (AT10185576.5)	AT	2/8/2012 (8/10/2005)	Methods for combined open loop/closed loop power control in a wireless communication system, corresponding base station and remote transceiver Nicholas William Anderson
DE602005032651.0 (DE602005032651.0)	DE	2/8/2012 (8/10/2005)	Methods for combined open loop/closed loop power control in a wireless communication system, corresponding base station and remote transceiver Nicholas William Anderson

ES2271155 (ES10185576.5)	ES	2/8/2012 (8/10/2005)	Methods for combined open loop/closed loop power control in a wireless communication system, corresponding base station and remote transceiver
FI2271155 (FI10185576.5)	FI	2/8/2012 (8/10/2005)	Nicholas William Anderson Methods for combined open loop/closed loop power control in a wireless communication system, corresponding base station and remote transceiver Nicholas William Anderson
FR2271155 (FR10185576.5)	FR	2/8/2012 (8/10/2005)	Methods for combined open loop/closed loop power control in a wireless communication system, corresponding base station and remote transceiver Nicholas William Anderson
GB2271155 (GB10185576.5)	GB	2/8/2012 (8/10/2005)	Methods for combined open loop/closed loop power control in a wireless communication system, corresponding base station and remote transceiver Nicholas William Anderson
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TR2271155 (TRE10185576.5)	TR.	2/8/2012 (8/10/2005)	Methods for combined open loop/closed loop power control in a wireless communication system, corresponding base station and remote transceiver Nicholas William Anderson
JP2007-525302	JP	8/10/2005	Combined open loop/closed loop power control in a wireless communication system Nicholas William Anderson
JP2011-234218	JP	10/25/2011	Unable to verify Nicholas William Anderson
KR10-2007-7005478	KR	8/10/2005	Power control in a wireless communication system Nicholas William Anderson
8098621 (11/209281)	US	1/17/2012 (8/23/2005)	Compatible broadcast downlink and unicast uplink interference reduction for a wireless communication system Martin W. Beale
CN200680038351.5	CN	7/20/2006	Compatible broadcast downlink and unicast uplink interference reduction for a wireless communication system

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			M. Beale
EP06792532.1	EP	7/20/2006	Compatible broadcast downlink and unicast uplink interference reduction for a wireless communication system
JP4772121 (JP2008-527415)	JP	7/1/2011 (7/20/2006)	Martin Beale Compatible broadcast downlink and unicast uplink interference reduction for a wireless communication system Martin Beale
JP2011-097516	JP	4/25/2011	Interference reduction method, base station, mobile station, and computer-readable medium Martin Beale
8005041 (11/430421)	US	8/23/2011 (5/8/2006)	Wireless communication system, apparatus for supporting data flow and method therefor Timothy J. Speight
13/212843	US	8/18/2011	Wireless communication system, apparatus for supporting data flow and method therefor Timothy J. Speight
CN200780021662.5	CN	4/27/2007	Mapping services to radio bearers and allocating bandwidth to the radio bearers according to weight values Timothy Speight
EP07728609.4	EP	4/27/2007	Mapping services to radio bearers and allocating bandwidth to the radio bearers according to weight values Timothy Speight

JP2009-508323	JP	4/27/2007	Mapping services to radio bearers and allocating bandwidth to the radio bearers according to weight values Timothy Speight
KR10-1118339 (KR10-2008-7029455)	KR	2/13/2012 (4/27/2007)	Mapping services to radio bearers and allocating bandwidth to the radio bearers according to weight values Timothy Speight
KR10-2011-7025396	KR	10/26/2011	Mapping services to radio bearers and allocating bandwidth to the radio bearers according to weight values Timothy Speight
11/796181	US	4/27/2007	Methods, base station, remote station and system for high speed downlink packet access (HSDPA) communication
CN200880010665.3	CN	4/24/2008	Peter Jonathon Legg Methods, base station, remote station and system for high speed downlink packet access (HSDPA) communication Peter Legg
EP08736556.5	EP	4/24/2008	Methods, base station, remote station and system for high speed downlink packet access (HSDPA) communication Peter Legg
JP2010-504698	JP	4/24/2008	Methods, base station, remote station and system for high speed downlink packet access (HSDPA) communication Peter Legg

KR10-2009-7020238	KR	4/24/2008	Methods, base station, remote station and system for high speed downlink packet access (HSDPA) communication Peter Legg
11/416865	US	5/2/2006	Network-initiated communication establishment in a cellular system Chandrika K, Worrall
CN200780021642.8	CN	4/27/2007	Network-initiated communication establishment in a cellular system Chandrika K. Worrall
EP07728616.9	EP	4/27/2007	Network-initiated communication establishment in a cellular system Chandrika K, Worrall
JP2009-508324	JP	4/27/2007	Network-initiated communication establishment in a cellular system Chandrika K. Worrall
JP2011-198526	JP	9/12/2011	Network-initiated communication establishment in a cellular system Chandrika K, Worrall
KR10-1075925 (KR10-2008-7029409)	KR	10/17/2011 (4/27/2007)	Network-initiated communication establishment in a cellular system Chandrika K. Worrall
KR10-1099840 (KR10-2011-7006124)	KR	12/21/2011 (3/16/2011)	Network-initiated communication establishment in a cellular system Chandrika K. Worrall
KR10-1110558 (KR10-2011-7024572)	KR	1/19/2012 (10/18/2011)	Network-initiated communication establishment in a cellular system Chandrika K. Worrall
11/502928	US	8/11/2006	Application-layer combining of multimedia streams delivered over multiple radio access networks and delivery modes Chandrika K. Worrall; Haris

			Zisimopoulos; Alan Edward Jones
AU283554 (AU2007283554)	AU	9/1/2011 (8/8/2007)	Application-layer combining of multimedia streams delivered over multiple radio access networks and delivery modes Alan Edward Jones; Haris Zisimopoulos; Chandrika K. Worrall
AU2011213704	AU	8/16/2011	<ul> <li>Application-layer combining of multimedia streams delivered over multiple radio access networks and delivery modes</li> <li>Alan Edward Jones; Haris Zisimopoulos; Chandrika K. Worrall</li> </ul>
CN200780034530.6	CN	8/8/2007	<ul> <li>Application-layer combining of multimedia streams delivered over multiple radio access networks and delivery modes</li> <li>C. K. Worrall; H. Zisimopoulos; A. E. Jones</li> </ul>
EP07802543.4	EP	8/8/2007	Application-layer combining of multimedia streams delivered over multiple radio access networks and delivery modes Chandrika K. Worrall; Haris Zisimopoulos; Alan Edward Jones
JP2009-523291	JP	8/8/2007	Application-layer combining of multimedia streams delivered over multiple radio access networks and delivery modes Chandrika K. Worrall; Haris Zisimopoulos; Alan Edward Jones
JP2011-093137	JP	4/19/2011	Service center Chandrika K. Worrall; Haris Zisimopoulos; Alan Edward Jones

KR10-1047091 (KR10-2009-7004518)	KR	6/30/2011 (8/8/2007)	Application-layer combining of multimedia streams delivered over multiple radio access networks and delivery modes Chandrika K. Worrall; Haris Zisimopoulos; Alan Edward Jones
KR10-2011-7004672	KR	2/25/2011	Application-layer combining of multimedia streams delivered over multiple radio access networks and delivery modes Chandrika K. Worrall; Haris Zisimopoulos; Alan Edward Jones
11/502929	US	8/11/2006	Direct user plane tunnel delivery of broadcast and multicast traffic Haris Zisimopoulos; Chandrika K. Worrall; Alan Edward Jones
AU283553 (AU2007283553)	AU	6/23/2011 (8/8/2007)	Direct user plane tunnel delivery of broadcast and multicast traffic Alan Edward Jones; Haris Zisimopoulos; Chandrika K. Worrall
CN200780034620.5	CN	8/8/2007	Direct user plane tunnel delivery of broadcast and multicast traffic Haris Zisimopoulos; Chandrika K. Worrall; Alan Edward Jones
EP07802542.6	EP	8/8/2007	Direct user plane tunnel delivery of broadcast and multicast traffic Haris Zisimopoulos; Chandrika K. Worrall; Alan Edward Jones
EP10172739.4	EP	8/8/2007	Direct user plane tunnel delivery of broadcast and multicast traffic Haris Zisimopoulos; Chandrika K. Worrall; Alan Edward Jones
JP2009-523290	JP	8/8/2007	Direct user plane tunnel delivery of broadcast and multicast traffic Haris Zisimopoulos; Chandrika K.

			Worrall; Alan Edward Jones
KR10-2009-7004889	KR	3/9/2009	Direct user plane tunnel delivery of broadcast and multicast traffic Haris Zisimopoulos; Chandrika K Worrall; Alan Edward Jones
KR10-2011-7007702	KR	4/1/2011	Direct user plane tunnel delivery of broadcast and multicast traffic Haris Zisimopoulos; Chandrika K Worrall; Alan Edward Jones
8009639 (11/646692)	US	8/30/2011 (12/27/2006)	Feedback control in an FDD TDD-CDMA system Paul Howard
13/176298	US	7/5/2011	Feedback control in an FDD TDD-CDMA system Paul Howard
CN200780050639.9	CN	12/21/2007	Feedback control in TDD system operating in FDD mode Paul Howard
EP07858094.1	EP	12/21/2007	Feedback control in TDD system operating in FDD mode Paul Howard
JP2009-543459	JP	12/21/2007	Feedback control in TDD system operating in FDD mode Paul Howard
KR10-2009-7015635	KR	12/21/2007	Feedback control in TDD system operating in FDD mode Paul Howard
8027291 (11/863205)	US	9/27/2011 (9/27/2007)	Method and apparatus for transmitting transport channels over a physical channel of a cellular communication system Martin Warwick Beale

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13/212867	US	8/18/2011	Method and apparatus for transmitting transport channels over a physical channel of a cellular communication system
CN200880109067.1	CN	9/12/2008	Martin Warwick Beale Method and apparatus for transmitting transport channels over a physical channel of a cellular communication system Martin Warwick Beale
EP08804140.5	EP	9/12/2008	Method and apparatus for transmitting transport channels over a physical channel of a cellular communication system Martin Warwick Beale
JP2010-526245	JP	9/12/2008	Method and apparatus for transmitting transport channels over a physical channel of a cellular communication system Martin Warwick Beale
KR10-2010-7008257	KR	9/12/2008	Method and apparatus for transmitting transport channels over a physical channel of a cellular communication system Martin Warwick Beale
8064382 (11/864640)	US	11/22/2011 (9/28/2007)	Apparatus and method for scheduling in a wireless communication system Haris Zisimopoulos; Chandrika Worrall
CN200880109066.7	CN	9/12/2008	Apparatus and method for uplink scheduling in a wireless communication system Haris Zisimopoulos; Chandrika Worrall
EP08804113.2	EP	9/12/2008	Apparatus and method for uplink scheduling in a wireless

1			communication system
			Haris Zisimopoulos; Chandrika Worrall
JP2010-526244	JP	9/12/2008	Apparatus and method for uplink scheduling in a wireless communication system
			Haris Zisimopoulos; Chandrika Worrall
KR10-2010-7006339	KR	9/12/2008	Apparatus and method for uplink scheduling in a wireless communication system
			Haris Zisimopoulos; Chandrika Worrall
13/212830	US	8/18/2011	Apparatus and method for scheduling in a wireless communication system
			Haris Zisimopoulos; Chandrika Worrall
GB2466191 (GB0822408.1)	GB	12/29/2010 (12/9/2008)	Communication system, apparatu and methods for providing and acquiring a system information message
			Chandrika Kumudinie Worrall
EP09801400.4	EP	12/9/2009	Communication system, apparatu and methods for providing and acquiring a system information message
			Chandrika Worrall
13/133076	US	12/9/2009	Communication system, apparatu and methods for providing and acquiring a system information message
			Chandrika Worrall
GB2377586 (GB0116555.4)	GB	6/29/2005 (7/6/2001)	SYSTEM AND METHOD FOR CHANNEL TRANSPORT FORMAT ALLOCATION IN A WIRELESS

			COMMUNICATION SYSTEM
			Timothy James Speight
7366094 (10/190458)	US.	4/29/2008 (7/5/2002)	System and method for channel transport format allocation in a wireless communication system Timothy James Speight
12/770172	US	4/29/2010	System and method for channel transport format allocation in a wireless communication system Timothy James Speight
7385994 (10/278342)	US	6/10/2008 (10/23/2002)	Packet data queuing and processing Timothy James Speight
DE60221714.8 (DE60221714.8)	DE	8/8/2007 (10/24/2002)	Hierarchical and weighted packet data queue scheduling Timothy James Speight
ES1476983 (ES02772549.8)	ES	8/8/2007 (10/24/2002)	Hierarchical and weighted packet data queue scheduling Timothy James Speight
FR1476983 (FR02772549.8)	FR	8/8/2007 (10/24/2002)	Hierarchical and weighted packet data queue scheduling Timothy James Speight
GB1476983 (GB02772549.8)	GB	8/8/2007 (10/24/2002)	Hierarchical and weighted packet data queue scheduling Timothy James Speight
IT1476983 (IT02772549.8)	IT	8/8/2007 (10/24/2002)	Hierarchical and weighted packet data queue scheduling Timothy James Speight
GB2440978 (GB0616241.6)	GB	1/4/2012 (8/16/2006)	Wireless communication system, apparatus for supporting data flow and methods therefor Timothy Speight
8031654 (11/726397)	US	10/4/2011 (3/20/2007)	Wireless communication system, apparatus for supporting data flow

			and methods therefor
			Timothy J. Speight
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(b) all patents and patent applications (i) to which any of the Patents directly or indirectly claims priority, (ii) for which any of the Patents directly or indirectly forms a basis for priority, and/or (iii) that were commonly-owned applications that incorporate by reference, or are incorporated by reference into, the Patents;

(c) all reissues, reexaminations, extensions, continuations, continuations in part, continuing prosecution applications, requests for continuing examinations, divisions, registrations of any item in any of the foregoing categories (a) and (b);

(d) all foreign patents, patent applications, and counterparts with respect to any item in any of the foregoing categories (a) through (c), including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants or issuances;

(e) all items in any of the foregoing in categories (b) through (d), whether or not expressly listed as Patents above and whether or not claims in any of the foregoing have been rejected, withdrawn, cancelled, or the like;

(f) Assignor's right, title and interest in and to inventions, invention disclosures, and discoveries described in the specifications of any of the items in the foregoing categories (a) through (e), that (i) form the basis of a claim included in any of the foregoing categories (a) through (e); and/or (ii) are subject matter capable of being reduced to an allowable patent claim in a reissue or reexamination proceeding brought on any of the foregoing categories (a) through (e);

g) rights to apply in any or all countries of the world for patents and similar patent rights claiming priority to any item in the foregoing categories (a) through (f);

(h) causes of action (whether known or unknown or whether currently pending, filed, or otherwise) and other enforcement rights under, or on account of, any item in the foregoing categories (a) through (g), including, without limitation, all causes of action and other enforcement rights for (i) damages, (ii) injunctive relief, and (iii) any other remedies of any kind for past infringement, except, in each case, for such rights relating to certain rights, claims or entities separately excluded by Assignor; and

(i) rights to collect royalties or other payments under or on account of any of the Patents and/or any item in the foregoing categories (a) through (h), except, in each case, for such rights relating to certain rights, claims or entities separately excluded by Assignor.

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

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PATENT REEL: 049591 FRAME: 0656 IN WITNESS WHEREOF this Assignment of Patent Rights is executed at <u>An Francisco</u>, on <u>April 27, 2012</u>.

#### ASSIGNOR:

**IPWireless**, Inc.

By: <u>Cascy McComich</u> Name: <u>Cascy McComich</u> Genera (Signature MUST be attested

### ATTESTATION OF SIGNATURE PURSUANT TO 28 U.S.C. § 1746

The undersigned witnessed the signature of <u>Caccy McCommut</u> to the above Assignment of Patent Rights on behalf of IPWireless, Inc. and makes the following statements:

- 1. I am over the age of 18 and competent to testify as to the facts in this Attestation block if called upon to do so.
- 2. <u>(asey MCCommute</u> is personally known to me (or proved to me on the basis of satisfactory evidence) and appeared before me on <u>April 27</u>, 2012 to execute the above Assignment of Patent Rights on behalf of IPWireless, Inc.
- 3. <u>Casey McCormittue</u> subscribed to the above Assignment of Patent Rights on behalf of IPWireless, Inc.

I declare under penalty of perjury under the laws of the United States of America that the statements made in the three (3) numbered paragraphs immediately above are true and correct.

EXECUTED on April 27, 2012 (date) NURPH Jame: NIIIale (CANEV-PCK Print Name: