PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3407384

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NUJIRA LIMITED	06/22/2015

RECEIVING PARTY DATA

Name:	SNAPTRACK, INC.
Street Address:	5775 MOREHOUSE DRIVE
City:	SAN DIEGO
State/Country:	CALIFORNIA
Postal Code:	92121

PROPERTY NUMBERS Total: 91

Property Type	Number
Patent Number:	7482869
Patent Number:	8169261
Patent Number:	8749308
Application Number:	13941127
Application Number:	14264631
Application Number:	14299184
Application Number:	14636387
Patent Number:	7764060
Patent Number:	8093979
Patent Number:	7868698
Patent Number:	8106713
Patent Number:	8587379
Application Number:	14082968
Application Number:	11574218
Patent Number:	8680916
Application Number:	14223494
Patent Number:	8093945
Patent Number:	8093946
Patent Number:	8981846
Application Number:	13345427

Property Type	Number
Application Number:	14599019
Patent Number:	8836422
Application Number:	14481447
Patent Number:	8879284
Application Number:	14515966
Patent Number:	8514018
Patent Number:	8884695
Patent Number:	8669745
Patent Number:	8294522
Patent Number:	8680833
Application Number:	14187743
Application Number:	12992742
Patent Number:	8319570
Patent Number:	8482322
Patent Number:	8928364
Application Number:	14584589
Patent Number:	8648658
Patent Number:	8476976
Application Number:	13856120
Application Number:	13127624
Patent Number:	8659355
Application Number:	14186265
Application Number:	14294900
Application Number:	13512290
Application Number:	14608898
Patent Number:	8994345
Application Number:	14669929
Patent Number:	8854129
Application Number:	14485475
Patent Number:	8692614
Application Number:	14246582
Application Number:	13700233
Application Number:	13702728
Patent Number:	8963642
Application Number:	14598927
Application Number:	13699872
Application Number:	13816842
Application Number:	14237433

Property Type	Number
Patent Number:	8570105
Patent Number:	8947162
Application Number:	14592447
Application Number:	13418954
Patent Number:	8860510
Application Number:	14117989
Patent Number:	8928403
Application Number:	14577458
Application Number:	14122506
Patent Number:	8803603
Application Number:	14450897
Application Number:	14350218
Application Number:	14350702
Application Number:	13742506
Application Number:	13742505
Application Number:	14389106
Application Number:	14554374
Patent Number:	8854139
Application Number:	14389096
Application Number:	13853249
Application Number:	14413960
Application Number:	13937577
Application Number:	14169204
Application Number:	14466173
Application Number:	14603686
Application Number:	14519258
Application Number:	61440291
Patent Number:	8989682
Application Number:	14581630
Application Number:	61561676
Patent Number:	8786371
Application Number:	14308537
Patent Number:	8902002

CORRESPONDENCE DATA

Fax Number:

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.

Email: btwalker@qualcomm.com

Correspondent Name:	SNAPTRACK, INC.
Address Line 1:	5775 MOREHOUSE DRIVE
Address Line 4:	SAN DIEGO, CALIFORNIA 92121

NAME OF SUBMITTER:	BRETT T. WALKER
SIGNATURE:	/Brett T. Walker/
DATE SIGNED:	06/22/2015

Total Attachments: 17
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PATENT ASSIGNMENT

THIS PATENT AGREEMENT is effective as of 5 June 2015.

PARTIES

(1) NUJIRA LIMITED (sometimes also referred to as Nujira Ltd. or Nujira LTD), a limited company incorporated under the laws of England and Wales under company number 4569647, having its registered office at Building 1010, Cambourne Business Park, Cambourne, Cambridge CB23 6DP, United Kingdom (the "**ASSIGNOR**"),and

(2) SNAPTRACK, INC, a corporation incorporated under the laws of the State of California whose principal place of business is at 5775 Morehouse Drive, San Diego, California, CA 92121, United States (the "**ASSIGNEE**").

BACKGROUND

(A) Pursuant to the Asset Purchase Agreement (the "Purchase Agreement") dated 5 June 2015, between ASSIGNOR and ASSIGNEE, ASSIGNOR has agreed to sell, assign, transfer, convey and deliver to ASSIGNEE all of ASSIGNOR's right, title, and interest in, to and under certain assets, including, without limitation (i) the registered patents and patent applications identified in the Exhibit attached hereto (hereinafter the "**Exhibit 1**"), and all provisional and priority applications relating thereto; (ii) all patents issuing on or from any patent applications identified in the Exhibit 1; (iii) all reissues, reexaminations, extensions, divisionals, renewals, continuations, continuations-in-part and counterparts (whether foreign or domestic) claiming priority to any of the foregoing items in (i) or (ii) above, along with all patents issuing therefrom; and (iv) all inventions and improvements claimed or described in any of the foregoing items (i), (ii) or (iii) (subsections (i), (ii), (iii) and (iv) hereinafter collectively referred to as the "**Patent Items**"). Notwithstanding any of the foregoing, the Patent Items shall exclude the patent applications identified in the "Exhibit 2" attached hereto, together with (i) any patent issuing on such patent applications; (ii) any reissue, division, re-examination, renewal, extension, continuation, or continuation-in-part to such patent applications; and (iii) any patent or patent application that derives priority from such patent application (hereinafter collectively referred to as the "**Excluded Patent Items**").

(B) Pursuant to the Purchase Agreement ASSIGNOR and ASSIGNEE have agreed to enter into this Patent Assignment.

AGREED TERMS

In consideration of the promises and covenants set forth in the Purchase Agreement and for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

1. ASSIGNOR does hereby sell, assign, transfer, convey and deliver unto ASSIGNEE, its successors, legal representatives and assigns, all right, title and interest throughout the world in, to and under the Patent Items, including without limitation all foreign patents and any and all rights of priority under international conventions, treaties or agreements based on or relating to the Patent Items.

2. ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States of America, and any official of any country or countries foreign to the United States of America, whose duty it is to issue patents on applications, to record ASSIGNEE as the assignee and owner of the Patent Items and to issue all patents for the Patent Items to and in the name of ASSIGNEE, its successors, legal representatives and assigns, as the assignee to the entire interest therein, in accordance with the terms of this Patent Assignment.

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3. ASSIGNOR hereby assigns, transfers, conveys and delivers to ASSIGNEE, its successors, legal representatives and assigns, all rights of enforcement, all claims for damages and all remedies arising out of, relating to or resulting from the Patent Items or any violation(s) thereof, whether accrued prior to the date of this Patent Assignment or hereafter, including but not limited to the right to sue for, seek, collect, recover and retain damages and any other relief arising out of or resulting from any past, present or future infringement or violation of any of the Patent Items, and all other rights, including common law rights, that ASSIGNOR may have relating to the Patent Items, including but not limited to any ongoing or prospective royalties to which ASSIGNOR may be entitled, or that ASSIGNOR may collect for any infringements of any of the Patent Items or from any settlement or agreement related to the Patent Items arising before or after the date of this Patent Agreement, such rights to be held and enjoyed by ASSIGNEE, its successors, legal representatives and assigns, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR if this Patent Assignment had not been made.

4. ASSIGNOR hereby represents and warrants that it has full right, power and authority to sell, assign, transfer, convey and deliver all of the subject matter set forth herein, and hereby covenants and agrees that upon the written request of ASSIGNEE and without further compensation, ASSIGNOR shall execute, acknowledge, and deliver all the instruments and documents and shall take all the actions reasonably necessary or required by law to consummate and make fully effective the transaction contemplated by this Patent Assignment and will communicate promptly to ASSIGNEE, its successors, legal representatives and assigns, all facts known to ASSIGNOR respecting the Patent Items, and will testify in any legal proceeding, sign all lawful papers, transfer all file histories, make diligent effort to find or reach every inventor of the Patent Items necessary or appropriate in connection with preparation of any lawful document or proceeding relating to the Patent Items, make reasonable efforts to obtain all necessary or appropriate signed and executed documents relating to the Patent Items from every inventor named in the Patent Items, make all rightful declarations and/or oaths and generally do everything possible to aid ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce patent protection for the Patent Items on a worldwide basis in all countries and for perfecting, recording, or maintaining the title of ASSIGNEE, and ASSIGNEE'S successors and assigns, in and to each of the Patent Items in the United States and throughout the world. ASSIGNEE further covenants and agrees that it will wholly refrain from challenging the validity, enforceability or scope of the Patent Items, whether through opposition, reexamination and/or court proceedings.

5. If ASSIGNEE is unable for any reason to secure ASSIGNOR'S signature to any document required to file, prosecute, register, or memorialize the assignment of any rights under any Patent Items as provided under this Patent Assignment, ASSIGNOR hereby irrevocably designates and appoints ASSIGNEE and ASSIGNEE'S duly authorized officers and agents as ASSIGNOR'S agents and attorneys-in-fact to act for and on ASSIGNOR'S behalf and instead of ASSIGNOR to take all lawfully permitted acts to further the filing, prosecution, registration, memorialization of assignment, issuance, and enforcement of rights under such Patent Items, all with the same legal force and effect as if executed by ASSIGNOR. The foregoing is deemed a power coupled with an interest and is irrevocable.

6. ASSIGNOR represents and warrants that ASSIGNOR has not sold, assigned, transferred or granted and will not sell, assign, transfer or grant to others either (1) any rights, title or interest in and to any of the Patent Items, or (2) any rights inconsistent with the rights granted herein, including without limitation granting or allowing any lien, security interest or other encumbrance in or to such Patent Items.

7. This Patent Assignment constitutes the entire agreement with respect to its subject matter and supersedes all prior or contemporaneous oral or written agreements concerning such subject matter.

8. No waiver, amendment, or modification of this Patent Assignment shall be effective against the ASSIGNEE, unless in writing executed by a duly authorized representative of the ASSIGNEE.

9. This Patent Assignment and any dispute or claim arising out of or in connection with it or its subject matter or formation (including non-contractual disputes or claims) shall be governed by and construed in accordance with the law of England and Wales.

10. Each party irrevocably agrees that the courts of England and Wales shall have exclusive personal jurisdiction to settle any dispute or claim arising out of or in connection with this agreement or its subject matter or formation (including non-contractual disputes or claims), except that in any action seeking to enforce any order or any judgment of such court in England or Wales, such personal jurisdiction shall be nonexclusive. A breach of any of the promises or agreements contained herein will result in irreparable and continuing damage to ASSIGNEE for which there will be no adequate remedy at law, and ASSIGNEE shall be entitled to injunctive relief and/or a decree of specific performance, and such other relief as may be proper.

11. This agreement may be executed in any number of counterparts, each of which when executed shall constitute a duplicate original, but all the counterparts shall together constitute the one agreement.

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IN WITNESS WHEREOF, I hereunto set my hand this 22 day of June, 2015.

NUJIRA LIMITED

By: T. W. Hayes

Printed Name: T. W. Hayes

Title: Director

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

I, Paul Gittins, a Notary Public authorised to practise throughout England and Wales, with an office at 18 Priory St Cambridge DO HEREBY CERTIFY AND ATTEST:

THAT the signature set and subscribed above is genuine, the same having been this day subscribed thereto in my presence by T. W. Hayes, whose identity I the Notary attest and who declared to me that he signed the same in his capacity as a Director of Nujira Limited, being for such purpose duly authorised.

Issued and my signature and seal at Cambridge, England this 22nd day of June 2015.

P. Gittins

PAUL GITTINS
NOTARY PUBLIC
18 PRIORY STREET
CAMBRIDGE CB4 3QH
MY COMMISSION DOES NOT EXPIRE

IN WITNESS WHEREOF, acknowledged and accepted on this 22nd day of June, 2015.

SNAPTRACK, INC.

By: _____

Printed Name: David T. Marr

Title: Vice President

Exhibit 1
Patent Items

Country	Application Title	App. No.	Filed Date	Patent Number	Publication Number	Issue/Grant Date
GB	Power supply stage for an amplifier	GB0303826.2	2/19/2003	GB2398648	GB2398648	10/11/2005
WO	HIGH EFFICIENCY AMPLIFICATION	PCT/GB2003/04507	10/17/2003		WO2004075398	
CA	HIGH EFFICIENCY AMPLIFICATION	2516706	10/17/2003	2516706		2/15/2011
CN	Radio frequency amplification device, power supply unit and control method thereof	200380110183.2	10/17/2003	ZL200380110183.2	CN1759532	5/13/2009
EP	HIGH EFFICIENCY AMPLIFICATION	03753814.7	10/17/2003	EP1597821	EP1597821	11/7/2007
DE	HIGH EFFICIENCY AMPLIFICATION	03753814.7	10/17/2003	EP1597821	60317371.3-08	11/7/2007
FR	HIGH EFFICIENCY AMPLIFICATION	03753814.7	10/17/2003	EP1597821	EP1597821	11/7/2007
JP	HIGH EFFICIENCY AMPLIFICATION	2004-568437	10/17/2003	4609931	2006-514472	10/22/2010
KR	HIGH EFFICIENCY AMPLIFICATION	10-2005-7015435	10/17/2003	10-1126671	10-2005-0116367	3/7/2012
US	HIGH EFFICIENCY AMPLIFICATION	11/161,854	8/19/2005	7,482,869	20060028271	1/27/2009
US	HIGH EFFICIENCY AMPLIFICATION	12/360,727	1/27/2009	8,169,261	20090128236	5/1/2012
US	HIGH EFFICIENCY AMPLIFICATION	13/460,111	4/30/2012	8,749,308	20120212291	6/10/2014
US	High Efficiency Amplification	13/941,127	7/12/2013		20130300513	
US	High Efficiency Amplification	14/264,631	4/29/2014		20140232470	
US	High Efficiency Amplification	14/299,184	6/9/2014		20140285268	
US	High Efficiency Amplification	14/636,387				
GB	TRANSFORMER BASED VOLTAGE SUPPLY	GB0328504.6	12/9/2003	GB2409115	GB2409115	10/3/2006
GB	TRANSFORMER BASED VOLTAGE SUPPLY	GB0616509.6	12/9/2003	GB2426392	GB2426392	5/1/2007
WO	TRANSFORMER BASED VOLTAGE SUPPLY	PCT/GB2004/005126	12/7/2004		WO2005057769	
EP	TRANSFORMER BASED VOLTAGE SUPPLY	04805945.5	12/7/2004	EP1709725	EP1709725	2/8/2012
DE	TRANSFORMER BASED VOLTAGE SUPPLY	602004036456.8	12/7/2004	EP1709725	EP1709725	2/8/2012
FR	TRANSFORMER BASED VOLTAGE SUPPLY	04805945.5	12/7/2004	EP1709725	EP1709725	2/8/2012
SE	TRANSFORMER BASED VOLTAGE SUPPLY	04805945.5	12/7/2004	EP1709725	EP1709725	2/8/2012
JP	TRANSFORMER BASED VOLTAGE SUPPLY	2006-543609	12/7/2004	4932689	2007-514311	2/24/2012
US	TRANSFORMER BASED VOLTAGE SUPPLY	10/596,301	12/7/2004	7,764,060	20070279019	7/27/2010
US	TRANSFORMER BASED VOLTAGE SUPPLY	12/813,740	6/11/2010	8,093,979	20100253460	1/10/2012
GB	Resonance suppression for power amplifier output network	GB0403021.9	2/11/2004	GB2411062	GB2411062	10/30/2007
WO	POWER AMPLIFIER WITH STABILISING NETWORK	PCT/GB2005/000338	2/9/2005		WO2005081399	
EP	POWER AMPLIFIER WITH STABILISING NETWORK	05702475.4	2/9/2005	EP1714381	EP1714381	7/31/2013
DE	POWER AMPLIFIER WITH STABILISING NETWORK	602005040617.4	2/9/2005	EP1714381	EP1714381	7/31/2013
FR	Resonance Suppression	05702475.4	2/9/2005	EP1714382	EP1714382	8/1/2013
JP	POWER AMPLIFIER WITH STABILISING NETWORK	2006-552716	2/9/2005	4928722	2007-522753	2/17/2012
US	POWER AMPLIFIER WITH STABILISING NETWORK	10/597,944	2/9/2005	7,868,698	20070279449	1/11/2011
US	POWER AMPLIFIER WITH STABILISING NETWORK	12/985,938	1/6/2011	8,106,713	20110109391	1/31/2012

JP	POWER AMPLIFIER WITH STABILISING CIRCUIT NETWORK	2011-184960	8/26/2011		2011-259497	
US	POWER AMPLIFIER WITH STABILISING NETWORK	13/361,421	1/30/2012	8,587,379	20120126899	11/19/2013
US	POWER AMPLIFIER WITH STABILISING NETWORK	14/082,968	11/18/2013		20140077861	
US	Resonance Suppression	Not yet filed	2/11/2004	US	Resonance Suppression	Not yet filed
GB	High efficiency variable voltage supply	GB0418991.6	8/25/2004			
WO	HIGH EFFICIENCY VARIABLE VOLTAGE SUPPLY	PCT/GB2005/003318	8/25/2005		WO2006021780	
EP	HIGH EFFICIENCY VARIABLE VOLTAGE SUPPLY	05775234.7	8/25/2005		EP1794877	
JP	High Efficiency Variable Voltage Supply	2007-528978	8/25/2005	5174460	2008-511265	1/11/2013
US	High Efficiency Variable Voltage Supply	11/574,218	8/25/2005		20070210771	
US	High Efficiency Variable Voltage Supply	13/189,771	6/27/2011	8,680,916	20120098504	3/25/2014
US	High Efficiency Variable Voltage Supply	14/223,494	3/24/2014		20140203789	
GB	Joint optimisation of supply and bias modulation	GB0605472.0	3/17/2006	GB2438457	GB2438457	8/16/2011
WO	JOINT OPTIMISATION OF SUPPLY AND BIAS MODULATION	PCT/GB2007/000959	3/19/2007		WO2007107728	
US	JOINT OPTIMISATION OF SUPPLY AND BIAS MODULATION	12/293,315	3/19/2007	8,093,945	20090302941	1/10/2012
US	JOINT OPTIMISATION OF SUPPLY AND BIAS MODULATION	12/558,090	9/11/2009	8,093,946	20100073088	1/10/2012
US	JOINT OPTIMISATION OF SUPPLY AND BIAS MODULATION	13/346,098	1/9/2012	8,981,846	20120105152	3/17/2015
US	JOINT OPTIMISATION OF SUPPLY AND BIAS MODULATION	13/345,427	1/6/2012		20120105150	
US	Joint Optimisation of Supply	14/599,019				
GB	Improved control loop for amplification stage	GB0803711.1	2/28/2008	GB2457754	GB2457764	12/21/2012
WO	IMPROVED CONTROL LOOP FOR AMPLIFICATION STAGE	PCT/EP2009/052411	2/27/2009		WO2009106632	
CN	IMPROVED CONTROL LOOP FOR AMPLIFICATION STAGE	200980106934.0	2/27/2009	ZL200980106934.0	CN101990741	12/17/2014
EP	IMPROVED CONTROL LOOP FOR AMPLIFICATION STAGE	09715998.0	2/27/2009		EP2241005	
JP	IMPROVED CONTROL LOOP FOR AMPLIFICATION STAGE	2010-548331	2/27/2009	5634271	2011-514084	10/24/2014
KR	IMPROVED CONTROL LOOP FOR AMPLIFICATION STAGE	10-2010-7021278	2/27/2009		10-2010-0116686	
US	Control Loop for Amplification Stage	12/919,525	2/27/2009	8,836,422	20110089990	9/16/2014
US	Control Loop for Amplification Stage	14/481,447	9/9/2014		20150002233	
GB	Improved filter for switched mode power supply	GB0803820.0	2/29/2008	GB2457940	GB2457940	4/2/2013
WO	IMPROVED FILTER FOR SWITCHED MODE POWER SUPPLY	PCT/EP2009/052399	2/27/2009		WO2009106628	
CN	Improved Filter	200980106935.5	2/27/2009	ZL200980106935.5	CN102067444	9/18/2013
EP	IMPROVED FILTER FOR SWITCHED MODE POWER SUPPLY	09715761.4	2/27/2009		EP2241006	
US	FILTER FOR SWITCHED MODE POWER SUPPLY	12/919,645	2/27/2009	8,879,284	20110095846	11/4/2014
US	FILTER FOR SWITCHED MODE POWER SUPPLY	14/515,966	10/16/2014		20150054598	
GB	SIGNAL ALIGNMENT FOR	GB1005397.3	3/30/2010		GB2479859	

	ENVELOPE TRACKING SYSTEM					
US	SIGNAL ALIGNMENT FOR ENVELOPE TRACKING SYSTEM	13/075,407	3/30/2011	8,514,018	20120019320	8/20/2013
GB	EFFICIENT SUPPLY VOLTAGE	GB1005408.5	3/30/2010		GB2479166	
WO	EFFICIENT SUPPLY VOLTAGE	PCT/EP2011/054868	3/28/2011		WO2011120996	
US	EFFICIENT SUPPLY VOLTAGE	13/638,815	3/28/2011	8,884,695	20130127547	11/11/2014
GB	MODULATION OF AC AMPLIFIER					
GB	TRANSFORMER BASED VOLTAGE COMBINER WITH INDUCTIVE SHUNT	GB0803821.8	2/29/2008	GB2457786	GB2457786	11/28/2012
WO	TRANSFORMER BASED VOLTAGE COMBINER WITH INDUCTIVE SHUNT	PCT/EP2009/052410	2/27/2009		WO2009106631	
US	TRANSFORMER BASED VOLTAGE COMBINER WITH INDUCTIVE SHUNT	12/919,868	2/27/2009	8,669,745	20110084680	3/11/2014
EP	TRANSFORMER BASED VOLTAGE COMBINER WITH INDUCTIVE SHUNT	09714584.6	2/27/2009		EP2250727	
GB	EFFICIENT AMPLIFICATION STAGE	GB1005404.7	3/30/2010			
US	EFFICIENT AMPLIFICATION STAGE	13/075,650	3/30/2011	8,294,522	20120025917	10/23/2012
GB	MODULATED SUPPLY STAGE WITH FEEDBACK TO SWITCHED SUPPLY	GB0808453.5	5/9/2008		GB2459894	
WO	MODULATED SUPPLY STAGE WITH FEEDBACK TO SWITCHED SUPPLY	PCT/EP2009/055611	5/8/2009		WO2009135941	
CN	TRANSFORMER BASED VOLTAGE COMBINER WITH INDUCTIVE SHUNT	200980125424.8	5/8/2009		CN102089967	
JP	TRANSFORMER BASED VOLTAGE COMBINER WITH INDUCTIVE SHUNT	2011-507939	5/8/2009		2011-520416	
KR	TRANSFORMER BASED VOLTAGE COMBINER WITH INDUCTIVE SHUNT	10-2010-7027478	5/8/2009		10-2011-0013457	
US	MODULATED SUPPLY STAGE WITH FEEDBACK TO SWITCHED SUPPLY	12/991,695	5/8/2009	8,680,833	20110234182	3/25/2014
US	MODULATED SUPPLY STAGE WITH FEEDBACK TO SWITCHED SUPPLY	14/187,743	2/24/2014		20140203653	
EP	MODULATED SUPPLY STAGE WITH FEEDBACK TO SWITCHED SUPPLY	09742159.8	5/8/2009		EP2289166	
GB	Multiple voltage level supply stage	GB0808873.4	5/15/2008	GB2460072	GB2460072	12/21/2012
WO	SINGLE INDUCTOR MULTIPLE OUTPUT CONVERTER	PCT/EP2009/055951	5/15/2009		WO2009138505	
CN	SINGLE INDUCTOR MULTIPLE OUTPUT CONVERTER	200980125243.0	5/15/2009		CN102084581	
JP	SINGLE INDUCTOR MULTIPLE OUTPUT CONVERTER	2011-508941	5/15/2009		2011-521612	
KR	SINGLE INDUCTOR MULTIPLE OUTPUT CONVERTER	10-2010-7028051	5/15/2009		10-2011-0011688	
US	SINGLE INDUCTOR MULTIPLE OUTPUT CONVERTER	12/992,742	5/15/2009		20120043947	
EP	SINGLE INDUCTOR MULTIPLE OUTPUT CONVERTER	09745837.6	5/15/2009		EP2301141	
GB	IMPROVED PULSE WIDTH MODULATION	GB0807188.4	4/18/2008	GB2459304	GB2459304	1/22/2013
WO	IMPROVED PULSE WIDTH MODULATION	PCT/EP2009/054676	4/20/2009		WO2009127739	
CN	IMPROVED PULSE WIDTH MODULATION	200980123162.1	4/20/2009	ZL200980123162.1	CN102084582	4/23/2014
JP	IMPROVED PULSE WIDTH MODULATION	2011-504484	4/20/2009	5634391	2011-520328	10/24/2014
KR	IMPROVED PULSE WIDTH	10-2010-	4/20/2009		10-2011-0021776	

	MODULATION	7025685				
US	PULSE WIDTH MODULATION	12/988,876	4/20/2009	8,319,570	20110095837	11/27/2012
EP	IMPROVED PULSE WIDTH MODULATION	09733123.5	4/20/2009	EP2269306	EP2269306	2/15/2012
DE	IMPROVED PULSE WIDTH MODULATION	602009005359.0	4/20/2009	602009005359.0	EP2269306	2/15/2012
FI	IMPROVED PULSE WIDTH MODULATION	09733123.5	4/20/2009	2269306	EP2269306	2/15/2012
FR	IMPROVED PULSE WIDTH MODULATION	09733123.5	4/20/2009	2269306	EP2269306	2/15/2012
GB	IMPROVED PULSE WIDTH MODULATION	09733123.5	4/20/2009	EP2269306	EP2269306	2/15/2012
GB	MODULATED					
GB	Control of cross-over point for a push-pull amplifier	GB1102643.2	2/15/2011	GB2488124	GB2488124	12/10/2013
WO	CONTROL OF CROSS-OVER POINT	PCT/EP2012/052265	2/10/2012		WO2012110410	
US	CONTROL OF CROSS-OVER POINT	13/372,891	2/14/2012	8,482,322	20120206178	7/9/2013
US	CONTROL OF CROSS-OVER POINT	13/936,291	7/8/2013	8,928,364	20130293295	1/6/2015
US	Class-B Cross Over Point	14/584,588	12/29/2014			
GB	CLASS-G MID-RAIL MODULATION					
GB	MULTI-PHASE SWITCHER					
GB	MAXIMUM EFFICIENCY RAIL PEAKIN					
GB	MULTI-POINT REFERENCE GENERATI					
GB	DPD-MIMO					
GB	GENERATION OF PRE-DISTORTION COEFFICIENTS	GB0821016.3	11/17/2008		GB2465399	
WO	GENERATION OF PRE-DISTORTION COEFFICIENTS	PCT/EP2009/065240	11/16/2009		WO2010055161	
US	GENERATION OF PRE-DISTORTION COEFFICIENTS	13/129,669	11/16/2009	8,648,658	20120154039	2/11/2014
EP	GENERATION OF PRE-DISTORTION COEFFICIENTS	09795942.3	11/16/2009		EP2366217	
GB	MULTI-STAGE AMPLIFIER	GB0807134.2	4/18/2008	GB2459324	GB2459324	8/28/2012
WO	MULTI-STAGE AMPLIFIER	PCT/EP2009/054276	4/9/2009		WO2010115465	
CN	MULTI-STAGE AMPLIFIER	200980125582.3	4/9/2009		CN102449902	
JP	MULTI-STAGE AMPLIFIER	2012-503872	4/9/2009		2012-523726	
KR	MULTI-STAGE AMPLIFIER	10-2010-7025793	4/9/2009		10-2012-0015983	
US	MULTI-STAGE AMPLIFIER	12/988,400	4/9/2009	8,476,976	20110090007	7/2/2013
US	MULTI-STAGE AMPLIFIER	13/856,120	4/3/2013		20130241650	
US	Master/Slave Adapted Apparatus					
EP	MULTI-STAGE AMPLIFIER	09779277.4	4/9/2009		EP2283573	
GB	SELF-ALIGNMENT IN 'CORPORATE'					
GB	IMPROVED POWER SUPPLY STAGE	GB0820177.4	11/4/2008	GB2465146	GB2465146	4/29/2014
WO	IMPROVED POWER SUPPLY STAGE	PCT/EP2009/064632	11/4/2009		WO2010052247	
CN	IMPROVED POWER SUPPLY STAGE	200980155602.8	11/4/2009		CN102273069	
US	POWER SUPPLY STAGE	13/127,624	11/4/2009		20120053793	
GB	POWER SUPPLY ARRANGEMENT FOR MULTI-STAGE AMPLIFIER	GB0821077.5	11/18/2008		GB2465552	
WO	POWER SUPPLY ARRANGEMENT FOR MULTI-STAGE AMPLIFIER	PCT/EP2009/064597	11/4/2009		WO2010057773	
KR	POWER SUPPLY ARRANGEMENT FOR MULTI-STAGE AMPLIFIER	10-2011-7013773	11/4/2009		10-2011-0091543	
EP	POWER SUPPLY ARRANGEMENT FOR MULTI-STAGE AMPLIFIER	09752325.2	11/4/2009		EP2359470	
US	POWER SUPPLY	13/128,718	11/4/2009	8,659,359	20120068767	2/25/2014

	ARRANGEMENT FOR MULTI-STAGE AMPLIFIER					
US	POWER SUPPLY ARRANGEMENT FOR MULTI-STAGE AMPLIFIER	14/186,265	2/21/2014		20140167841	
US	POWER SUPPLY ARRANGEMENT FOR MULTI-STAGE AMPLIFIER	14/294,900	6/3/2014		20140306756	
GB	Cascaded Modulator					
GB	PARALLEL CORRECTION AMPLIFIER	GB0920869.5	11/27/2009		GB2475739	
WO	PARALLEL CORRECTION AMPLIFIER	PCT/EP2010/068233	11/25/2010		WO2011064306	
CN	PARALLEL CORRECTION AMPLIFIER	201080060992.7	11/25/2010		CN102812633	
JP	PARALLEL CORRECTION AMPLIFIER	2012-540432	11/25/2010		2013-512606	
KR	PARALLEL CORRECTION AMPLIFIER	10-2012-7016686	11/25/2010		10-2012-0098824	
EP	PARALLEL CORRECTION AMPLIFIER	10796306.8	11/25/2010		EP2504919	
US	PARALLEL CORRECTION AMPLIFIER	13/512,290	11/25/2010		20130002346	
US	PARALLEL CORRECTION AMPLIFIER	14/608,898	1/29/2015			
GB	CONTROL OF MULTI-LEVEL SUPPLY STAGE	GB0900573.7	1/14/2009	GB2466953	GB2466953	10/29/2014
WO	CONTROL OF MULTI-LEVEL SUPPLY STAGE	PCT/EP2010/050371	1/14/2010		WO2010081843	
CN	CONTROL OF MULTI-LEVEL SUPPLY STAGE	201080009946.4	1/14/2010		CN102439833	
KR	CONTROL OF MULTI-LEVEL SUPPLY STAGE	10-2011-7018698	1/14/2010		10-2011-0104952	
EP	CONTROL OF MULTI-LEVEL SUPPLY STAGE	10701492.0	1/14/2010		EP2387818	
US	CONTROL OF MULTI-LEVEL SUPPLY STAGE	13/144,408	1/14/2010	8,994,345	20120105043	3/31/2015
US		14/669,929	3/26/2015			
GB	TIMING ALIGNMENT FOR MODULATED SUPPLY	GB1006815.4	4/15/2010		GB2479579	
WO	TIMING ALIGNMENT FOR MODULATED SUPPLY	PCT/EP2011/055727	4/12/2011		WO2011128341	
US	TIMING ALIGNMENT FOR MODULATED SUPPLY	13/640,873	4/12/2011	8,854,129	20130200949	10/7/2014
US	TIMING ALIGNMENT FOR MODULATED SUPPLY	14/485,475	9/12/2014		20150002234	
GB	TIMING ALIGNMENT FOR POWER AMPLIFIER	GB1104568.9	3/17/2011		GB2489040	
US	TIMING ALIGNMENT FOR POWER AMPLIFIER	13/422,218	3/16/2012	8,692,614	20120235741	4/8/2014
US	TIMING ALIGNMENT FOR POWER AMPLIFIER	14/246,582	4/7/2014		20140218108	
GB	POWER SUPPLY PRE-DISTORTION	GB1009043.8	5/28/2010		GB2480687	
WO	POWER SUPPLY PRE-DISTORTION	PCT/EP2011/058689	5/26/2011		WO2011147961	
US	POWER SUPPLY PRE-DISTORTION	13/700,233	5/26/2011		20130222057	
GB	IMPROVED CROSSOVER PERFORMANCE OF POWER AMPLIFIER	GB1009857.2	6/11/2010		GB2481069	
WO	IMPROVED CROSSOVER PERFORMANCE OF POWER AMPLIFIER	PCT/EP2011/059765	6/13/2011		WO2011154549	
US	CROSSOVER PERFORMANCE OF POWER AMPLIFIER	13/702,728	6/13/2011		20130207724	
WO	IMPROVED PERFORMANCE OF OFF-CHIP CONNECTION FOR POWER AMPLIFIER	PCT/EP2011/059760	6/13/2011		WO2011154547	
US	PERFORMANCE OF OFF-CHIP CONNECTION FOR POWER AMPLIFIER	13/702,786	6/13/2011	8,963,642	20130141165	2/24/2015

	Performance					
GB	SWITCHED ARRANGEMENT FOR SWITCHED MODE SUPPLY	GB1008636.1	5/24/2010		GB2480618	
WO	SWITCHED ARRANGEMENT FOR SWITCHED MODE SUPPLY	PCT/EP2011/058493	5/24/2011		WO2011147841	
US	SWITCHED ARRANGEMENT FOR SWITCHED MODE SUPPLY	13/699,872	5/24/2011		2013018943	
EP	SWITCHED ARRANGEMENT FOR SWITCHED MODE SUPPLY	11723027.6	5/24/2011		EP2577855	
GB	Envelope Port with DPD	Not yet filed	TBF			
GB	SWITCH MODE POWER SUPPLY FOR ENVELOPE TRACKING	GB1015664.6	8/13/2010	GB2482738	GB2482738	4/14/2015
WO	SWITCH MODE POWER SUPPLY FOR ENVELOPE TRACKING	PCT/EP2011/064046	8/15/2011		WO2012022744	
US	SWITCH MODE POWER SUPPLY FOR ENVELOPE TRACKING	13/816,882	8/15/2011		20130208865	
GB	ASYNCHRONOUS SWITCH MODE SUPPLY	GB1113702.3	8/9/2011		GB2493529	
WO	ASYNCHRONOUS SWITCH MODE SUPPLY	PCT/EP2012/065575	8/9/2012		WO2013021028	
CN	ASYNCHRONOUS SWITCH MODE SUPPLY	201280049847.2	8/9/2012		CN103975526	
US	ASYNCHRONOUS SWITCH MODE SUPPLY	14/237,433	8/9/2012		20150069985	
EP	ASYNCHRONOUS SWITCH MODE SUPPLY	12753087.1	8/9/2012		EP2730024	
GB	POWER CONTROL	GB1102621.8	2/15/2011		GB2488113	
WO	POWER CONTROL	PCT/EP2012/052264	2/10/2012		WO2012110409	
US	POWER CONTROL	13/371,823	2/13/2012	8,570,105	20120229208	10/29/2013
US	POWER CONTROL	14/063,062	10/25/2013	8,947,162	20140132345	2/3/2015
US	Power Control	14/592,447	1/8/2015		20150123733	
GB	Estimation and control of delay in envelope tracking amplification stage	GB1102642.4	2/15/2011			
GB	Polar amplification transmitter distortion reduction	GB1104291.8	3/14/2011		GB2489002	
US	Polar amplification transmitter distortion reduction	13/418,954	3/13/2012		20120264380	
GB	Optimised Polar Transmitter II					
GB	DC Servo System					
GB	BIAS CONTROL FOR PUSH-PULL AMPLIFIER ARRANGEMENT	GB1205849.8	3/23/2012		GB2500429	
US	BIAS CONTROL FOR PUSH-PULL AMPLIFIER ARRANGEMENT	13/849,080	3/22/2013	8,860,510	20130300504	10/14/2014
GB	TIME AND AMPLITUDE ALIGNMENT IN ENVELOPE TRACKING AMPLIFICATION STAGE	GB1108108.1	5/16/2011		GB2490892	
WO	TIME AND AMPLITUDE ALIGNMENT IN ENVELOPE TRACKING AMPLIFICATION STAGE	PCT/EP2012/059183	5/16/2012		WO2012156470	
CN	TIME AND AMPLITUDE ALIGNMENT IN ENVELOPE TRACKING AMPLIFICATION STAGE	201280035102.6	5/16/2012		CN103891135	
KR	TIME AND AMPLITUDE ALIGNMENT IN ENVELOPE TRACKING AMPLIFICATION STAGE	10-2013-7033178	5/16/2012		10-2014-0040156	
US	TIME AND AMPLITUDE ALIGNMENT IN ENVELOPE TRACKING AMPLIFICATION STAGE	14/117,989	5/16/2012		20150035606	
EP	TIME AND AMPLITUDE	12723155.8	5/16/2012		EP2710647	

	ALIGNMENT IN ENVELOPE TRACKING AMPLIFICATION STAGE					
GB	ENVELOPE PATH PROCESSING FOR ENVELOPE TRACKING AMPLIFICATION STAGE	GB1105462.4	3/31/2011		GB2489497	
US	ENVELOPE PATH PROCESSING FOR ENVELOPE TRACKING AMPLIFICATION STAGE	13/435,764	3/30/2012	8,928,403	20120249238	1/6/2015
US	ENVELOPE PATH PROCESSING FOR ENVELOPE TRACKING AMPLIFICATION STAGE	14/577,458	12/19/2014		20150188955	
GB	ENVELOPE PATH PROCESSING FOR ENVELOPE TRACKING AMPLIFICATION STAGE	GB1108969.5	5/27/2011		GB2491186	
WO	ENVELOPE PATH PROCESSING FOR ENVELOPE TRACKING AMPLIFICATION STAGE	PCT/EP2012/059936	5/28/2012		WO2012163875	
GB	TIME ALIGNMENT FOR AN AMPLIFICATION STAGE	GB1108979.4	5/27/2011		GB2491188	
WO	TIME ALIGNMENT FOR AN AMPLIFICATION STAGE	PCT/EP2012/059935	5/28/2012		WO2012163874	
CN	TIME ALIGNMENT FOR AN AMPLIFICATION STAGE	201280037492.0	5/28/2012		CN103918179	
KR	TIME ALIGNMENT FOR AN AMPLIFICATION STAGE	10-2013-7033484	5/28/2012		10-2014-0035938	
US	TIME ALIGNMENT FOR AN AMPLIFICATION STAGE	14/122,506	5/28/2012		20140179250	
EP	TIME ALIGNMENT FOR AN AMPLIFICATION STAGE	12724608.0	5/28/2012		EP2715934	
GB	ENVELOPE TRACKING SYSTEM FOR MIMO	GB1110732.3	6/24/2011		GB2488380	
WO	ENVELOPE TRACKING SYSTEM FOR MIMO	PCT/EP2012/062185	6/22/2012		WO2012175708	
CN	ENVELOPE TRACKING SYSTEM FOR MIMO	201280039628.1	6/22/2012		CN103907283	
JP	ENVELOPE TRACKING SYSTEM FOR MIMO	2014-516378	6/22/2012		2014-517650	
KR	ENVELOPE TRACKING SYSTEM FOR MIMO	10-2014-7000502	6/22/2012		10-2014-0040209	
US	ENVELOPE TRACKING SYSTEM FOR MIMO	13/530,921	6/22/2012	8,803,603	20130049858	8/12/2014
US	ENVELOPE TRACKING SYSTEM FOR MIMO	14/450,897	8/4/2014		20140341319	
EP	Mimo Transmitter	12728619.3	6/22/2012		EP2724460	
GB	ENVELOPE TRACKING PUSH-PULL OR DIFFERENTIAL POWER AMPLIFIER	GB1117145.1	10/5/2011		GB2495306	
WO	ENVELOPE TRACKING PUSH-PULL OR DIFFERENTIAL POWER AMPLIFIER	PCT/EP2012/069652	10/4/2012		WO2013050493	
CN	ENVELOPE TRACKING PUSH-PULL OR DIFFERENTIAL POWER AMPLIFIER	201280059960.4	10/4/2012		CN103988425	
US	ENVELOPE TRACKING PUSH-PULL OR DIFFERENTIAL POWER AMPLIFIER	14/350,218	10/4/2012			
GB	Accurate Measurement					
GB	OUTPUT STAGE FOR CLASS AB AMPLIFIER	GB1306621.2	4/11/2013		GB2512916	
WO	OUTPUT STAGE FOR CLASS AB AMPLIFIER	PCT/EP2014/057428	4/11/2014		WO2014167114	
GB	Reduced Standing Current					
GB	ISO Gain					
GB	ENVELOPE TRACKING POWER AMPLIFIER WITH LOW IMPEDANCE SUPPLY FEED	GB1117436.4	10/10/2011		GB2495493	
WO	ENVELOPE TRACKING POWER AMPLIFIER WITH LOW IMPEDANCE SUPPLY FEED	PCT/EP2012/069373	10/9/2012		WO2013053713	
CN	ENVELOPE TRACKING POWER AMPLIFIER WITH LOW	201228006068O.0	10/9/2012		CN103975523	

KR	ENVELOPE TRACKING POWER AMPLIFIER WITH LOW IMPEDANCE SUPPLY FEED	10-2014-7012484	10/9/2012		10-2014-0072197	
US	ENVELOPE TRACKING POWER AMPLIFIER WITH LOW IMPEDANCE SUPPLY FEED	14/350,702	10/9/2012		20150014041	
EP	ENVELOPE TRACKING POWER AMPLIFIER WITH LOW IMPEDANCE SUPPLY FEED	12775212.9	10/9/2012		EP2754238	
GB	Push-Pull Et Amp					
GB	CREST FACTOR REDUCTION APPLIED TO SHAPING TABLE TO INCREASE POWER AMPLIFIER EFFICIENCY OF ENVELOPE TRACKING AMPLIFIER	GB1200628.4	1/16/2012		GB2498392	
WO	CREST FACTOR REDUCTION APPLIED TO SHAPING TABLE TO INCREASE POWER AMPLIFIER EFFICIENCY OF ENVELOPE TRACKING AMPLIFIER	PCT/EP2013/050708	1/16/2013		WO2013107755	
CN	CREST FACTOR REDUCTION APPLIED TO SHAPING TABLE TO INCREASE POWER AMPLIFIER EFFICIENCY OF ENVELOPE TRACKING AMPLIFIER	201380011508.5	1/16/2013		CN104221282	
JP	CREST FACTOR REDUCTION APPLIED TO SHAPING TABLE TO INCREASE POWER AMPLIFIER EFFICIENCY OF ENVELOPE TRACKING AMPLIFIER	2014-552602	1/16/2013		2015-507898	
KR	CREST FACTOR REDUCTION APPLIED TO SHAPING TABLE TO INCREASE POWER AMPLIFIER EFFICIENCY OF ENVELOPE TRACKING AMPLIFIER	10-2014-7022634	1/16/2013		10-2014-0118468	
US	CREST FACTOR REDUCTION APPLIED TO SHAPING TABLE TO INCREASE POWER AMPLIFIER EFFICIENCY OF ENVELOPE TRACKING AMPLIFIER	13/742,506	1/16/2013		20140028370	
EP	CREST FACTOR REDUCTION APPLIED TO SHAPING TABLE TO INCREASE POWER AMPLIFIER EFFICIENCY OF ENVELOPE TRACKING AMPLIFIER	13700566.6	1/16/2013		EP2793868	
GB	PRE-DISTORTION IN RF PATH IN COMBINATION WITH SHAPING TABLE IN ENVELOPE PATH FOR ENVELOPE TRACKING AMPLIFIER	GB1200627.6	1/16/2012		GB2498391	
WO	PRE-DISTORTION IN RF PATH IN COMBINATION WITH SHAPING TABLE IN ENVELOPE PATH FOR ENVELOPE TRACKING AMPLIFIER	PCT/EP2013/050709	1/16/2013		WO2013107756	
CN	PRE-DISTORTION IN RF PATH IN COMBINATION WITH SHAPING TABLE IN ENVELOPE PATH FOR ENVELOPE TRACKING AMPLIFIER	201380014700.X	1/16/2013		CN104170250	
JP	PRE-DISTORTION IN RF PATH IN COMBINATION WITH SHAPING TABLE IN ENVELOPE PATH FOR ENVELOPE TRACKING AMPLIFIER	2014-552603	1/16/2013		2015-504286	

KR	PRE-DISTORTION IN RF PATH IN COMBINATION WITH SHAPING TABLE IN ENVELOPE PATH FOR ENVELOPE TRACKING AMPLIFIER	10-2014-7022632	1/16/2013		10-2014-0116494	
US	PRE-DISTORTION IN RF PATH IN COMBINATION WITH SHAPING TABLE IN ENVELOPE PATH FOR ENVELOPE TRACKING AMPLIFIER	13/742,505	1/16/2013		20140028392	
EP	PRE-DISTORTION IN RF PATH IN COMBINATION WITH SHAPING TABLE IN ENVELOPE PATH FOR ENVELOPE TRACKING AMPLIFIER	13700706.8	1/16/2013		EP2792066	
GB	Characterisation of amplifier with envelope tracked power supply	GB1205744.4	3/30/2012		GB2500709	
WO	DYNAMIC CHARACTERISATION OF AMPLIFIER USING MULTIPLE ENVELOPE SHAPING FUNCTIONS	PCT/EP2013/056666	3/28/2013		WO2013144275	
US	DYNAMIC CHARACTERISATION OF AMPLIFIER USING MULTIPLE ENVELOPE SHAPING FUNCTIONS	14/389,106	3/28/2013		20150088445	
EP	DYNAMIC CHARACTERISATION OF AMPLIFIER USING MULTIPLE ENVELOPE SHAPING FUNCTIONS	13712570.4	3/28/2013		EP2834914	
US	ADAPTIVE BIASING SCHEME FOR AN AMPLIFIER	13/483,166	5/30/2012	8,902,002	20130321085	12/2/2014
US	Adaptive Biasing	14/554,374				
US	REGULATED CASCODE CURRENT MIRROR SCHEME FOR TRANSCONDUCTANCE AMPLIFIERS	13/483,161	5/30/2012	8,854,139	20130321081	10/7/2014
GB	DETERMINATION OF ENVELOPE SHAPING AND SIGNAL PATH PREDISTORTION OF AN ET AMPLIFICATION STAGE USING DEVICE CHARACTERISATION DATA	GB1205741.0	3/30/2012		GB2500708	
WO	DETERMINATION OF ENVELOPE SHAPING AND SIGNAL PATH PREDISTORTION OF AN ET AMPLIFICATION STAGE USING DEVICE CHARACTERISATION DATA	PCT/EP2013/056668	3/28/2013		WO2013144277	
CN	DETERMINATION OF ENVELOPE SHAPING AND SIGNAL PATH PREDISTORTION OF AN ET AMPLIFICATION STAGE USING DEVICE CHARACTERISATION DATA	201380028955.1	3/28/2013		104521137	
JP	DETERMINATION OF ENVELOPE SHAPING AND SIGNAL PATH PREDISTORTION OF AN ET AMPLIFICATION STAGE USING DEVICE CHARACTERISATION DATA	2015-502349	3/28/2013			
US	DETERMINATION OF ENVELOPE SHAPING AND SIGNAL PATH PREDISTORTION OF AN ET AMPLIFICATION STAGE USING DEVICE CHARACTERISATION DATA	14/389,096	3/28/2013		20150061761	
EP	DETERMINATION OF ENVELOPE SHAPING AND SIGNAL PATH PREDISTORTION OF AN ET AMPLIFICATION STAGE USING DEVICE CHARACTERISATION DATA	13716746.6	3/28/2013		EP2834915	

GB	DYNAMIC CHARACTERISATION OF AMPLIFIER AM-PM DISTORTION	GB1205785.2	3/30/2012		GB2500705	
US	DYNAMIC CHARACTERISATION OF AMPLIFIER AM-PM DISTORTION	13/853,249	3/29/2013		20130285740	
GB	INTERFERENCE SUPPRESSION FOR SWITCHED MODE POWER SUPPLY WITH ERROR CORRECTION	GB1212214.9	7/10/2012		GB2503889	
WO	INTERFERENCE SUPPRESSION FOR SWITCHED MODE POWER SUPPLY WITH ERROR CORRECTION	PCT/EP2013/064540	7/10/2013		WO2014008399	
CN	Bridge Feedback	201380047073.x				
JP	Bridge Feedback	2015-520967				
KR	Bridge Feedback	10-2015-7003317				
US	INTERFERENCE SUPPRESSION FOR SWITCHED MODE POWER SUPPLY WITH ERROR CORRECTION	14/413,960				
EP	INTERFERENCE SUPPRESSION FOR SWITCHED MODE POWER SUPPLY WITH ERROR CORRECTION	13735025.2	7/10/2013		EP2862272	
GB	INTERFERENCE SUPPRESSION FOR SWITCHED MODE POWER SUPPLY	GB1212215.6	7/10/2012		GB2503890	
US	INTERFERENCE SUPPRESSION FOR SWITCHED MODE POWER SUPPLY	13/937,077	7/8/2013		20140022012	
GB	Class AB Adjustment					
GB	TRANSFER FUNCTION REGULATION	GB1309235.8	5/22/2013			
WO	TRANSFER FUNCTION REGULATION	PCT/EP2014/060583	5/22/2014		WO201418793O	
GB	ENVELOPE TRACKING MODULATOR WITH FEEDBACK	GB1301856.9	2/1/2013		GB2510397	
WO	ENVELOPE TRACKING MODULATOR WITH FEEDBACK	PCT/EP2014/051965	1/31/2014		WO2014118345	
GB	IMPROVED RESONANCE SUPPRESSION FOR ENVELOPE TRACKING MODULATOR	GB1301855.1	2/1/2013		GB2510396	
WO	IMPROVED RESONANCE SUPPRESSION FOR ENVELOPE TRACKING MODULATOR	PCT/EP2014/051960	1/31/2014		WO2014118341	
GB	IMPROVED VOLTAGE BOOST FOR ET MODULATOR	GB1301854.4	2/1/2013		GB2510395	
WO	IMPROVED VOLTAGE BOOST FOR ET MODULATOR	PCT/EP2014/051962	1/31/2014		WO2014118342	
GB	2G SUPPORT FOR 2G AND 3G/4G ENVELOPE TRACKING MODULATOR	GB1301851.0	2/1/2013		GB2511733	
US	2G SUPPORT FOR 2G AND 3G/4G ENVELOPE TRACKING MODULATOR	14/169,704	1/31/2014		20140218109	
GB	LOW POWER MODES FOR 3G/4G ENVELOPE TRACKING MODULATOR	GB1301858.6	2/1/2013		GB2510394	
WO	LOW POWER MODES FOR 3G/4G ENVELOPE TRACKING MODULATOR	PCT/EP2014/051964	1/31/2014		WO2014118344	
GB	IMPROVED EFFICIENCY FOR LINEAR AMPLIFIER OF ENVELOPE TRACKING MODULATOR	GB1301853.8	2/1/2013		GB2510393	
WO	IMPROVED EFFICIENCY FOR LINEAR AMPLIFIER OF ENVELOPE TRACKING MODULATOR	PCT/EP2014/051967	1/31/2014		WO2014118347	
GB	Improved Compensation					
GB	DELAY ADJUSTMENT	GB1309236.6	5/22/2013		GB2514388	

WO	DELAY ADJUSTMENT	PCT/EP2014/060581	5/22/2014		WO2014187818	
GB	OPTIMISATION OF ENVELOPE TRACKED POWER AMPLIFIER	GB1315120.4	8/23/2013		GB2517496	
WO	OPTIMISATION OF ENVELOPE TRACKED POWER AMPLIFIER	PCT/EP2014/067926	8/22/2014		WO2015025041	
GB	IMPROVED SUPPLY MODULATOR	GB1315121.2	8/23/2013		GB2517497	
US	SUPPLY MODULATOR	14/466,173	8/22/2014		20150054588	
GB	Multiplying Current	GB1401215.7	1/24/2014			
US	Multiplying Current	14/603686	1/23/2015			
GB	Ac floating voltage source for push-pull amplifier stage	GB1401842.8	2/4/2014			
WO	Floating Voltage	PCT/EP2015/052180	2/3/2015			
GB	REDUCED BANDWIDTH OF SIGNAL IN AN ENVELOPE PATH FOR ENVELOPE TRACKING SYSTEM	GB1318524.4	10/21/2013		GB2519361	
WO	REDUCED BANDWIDTH OF SIGNAL IN AN ENVELOPE PATH FOR ENVELOPE TRACKING SYSTEM	PCT/EP2014/072447	10/20/2014		WO2015059096	
US	REDUCED BANDWIDTH OF SIGNAL IN AN ENVELOPE PATH FOR ENVELOPE TRACKING SYSTEM	14/519,258	10/21/2014		20150123735	
GB	Soft Start Method	GB1509186.1	5/28/2015			
GB	Switcher Noise Reduction	GB1502246.0	2/11/2015			
GB	Ac amplifier output impedance reduction	GB1502248.6	2/11/2015			
GB	3-Level Hysteretic Converter	GB1509205.9	5/28/2015			
GB	Slope Compensation CCT	GB1509204.2	5/28/2015			
US	APPARATUS AND METHODS FOR ENVELOPE TRACKING CALIBRATION	61/440,291	2/7/2011			
US	APPARATUS AND METHODS FOR ENVELOPE TRACKING CALIBRATION	13/367,190	2/6/2012	8,989,682	20120200354	3/24/2015
US	UNKNOWN	14/581,830	12/23/2014			
US	APPARATUS AND METHODS FOR VOLTAGE CONVERTERS	61/561,676	11/18/2011			
US	APPARATUS AND METHODS FOR VOLTAGE CONVERTERS	13/671,022	11/7/2012	8,786,371	20130127548	7/22/2014
US	APPARATUS AND METHODS FOR VOLTAGE CONVERTER BYPASS CIRCUITS	14/308,537	6/18/2014		20140300334	

Exhibit 2
Excluded Patent Items

Country	Application Title	App. No.	Filed Date	Patent Number	Publication Number	Issue/Grant Date
GB	Printed circuit board with co-planar plate	GB0809270.2	5/21/2008		GB2460124	
WO	PRINTED CIRCUIT BOARD WITH CO-PLANAR PLATE AND METHOD OF MANUFACTURING THEREFOR	PCT/EP2009/056199	5/21/2009		WO2009141413	
WO	APPARATUS AND METHODS FOR ENVELOPE TRACKING CALIBRATION	PCT/US2012/024019	2/6/2012		WO2012109161	
CN	APPARATUS AND METHODS FOR ENVELOPE TRACKING CALIBRATION	201280015347.2	2/6/2012		CN103493368	
HK		14102987.5	2/6/2012		HK1190004	
JP	APPARATUS AND METHODS FOR ENVELOPE TRACKING CALIBRATION	2013-553480	2/6/2012		2014-505449	
KR	APPARATUS AND METHODS FOR ENVELOPE TRACKING CALIBRATION	10-2013-7023479	2/6/2012		10-2014-0000321	
EP	APPARATUS AND METHODS FOR ENVELOPE TRACKING CALIBRATION	12744479.2	2/6/2012		EP2673881	
TW	APPARATUS AND METHODS FOR VOLTAGE CONVERTERS	101142960	11/16/2012		TW201338380	
WO	APPARATUS AND METHODS FOR VOLTAGE CONVERTERS	PCT/US2012/064863	11/13/2012		WO2013074541	
CN	APPARATUS AND METHODS FOR VOLTAGE CONVERTERS	201280066414.3	11/13/2012		CN104169826	
KR	APPARATUS AND METHODS FOR VOLTAGE CONVERTERS	10-2014-7015363	11/13/2012		10-2014-0127798	
EP	APPARATUS AND METHODS FOR VOLTAGE CONVERTERS	12849934.0	11/13/2012		EP2780772	