

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5853598

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ZTE CORPORATION	11/20/2019
RECEIVING PARTY DATA	
Name:	OPEN INVENTION NETWORK LLC
Street Address:	RESEARCH TRIANGLE PARK CENTER
Internal Address:	4819 EMPEROR BLVD., SUITE 400
City:	DURHAM
State/Country:	NORTH CAROLINA
Postal Code:	27703
PROPERTY NUMBERS Total: 7	
Property Type	Number
Patent Number:	7315512
Patent Number:	8705409
Patent Number:	8645519
Patent Number:	9112143
Patent Number:	8856271
Patent Number:	9271232
Patent Number:	9806990
CORRESPONDENCE DATA	
Fax Number:	(866)415-0983
<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:	972-849-1310
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Address Line 1:	955 GARDEN PARK DRIVE
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Address Line 4:	ALLEN, TEXAS 75013
ATTORNEY DOCKET NUMBER:	ZTE-OIN 11-20-19
NAME OF SUBMITTER:	RAFFI GOSTANIAN
SIGNATURE:	/Raffi Gostanian/

PATENT

DATE SIGNED:	12/06/2019
Total Attachments: 18 source=ZTE - OIN - Executed Patent Assignment 11-20-19#page1.tif source=ZTE - OIN - Executed Patent Assignment 11-20-19#page2.tif source=ZTE - OIN - Executed Patent Assignment 11-20-19#page3.tif source=ZTE - OIN - Executed Patent Assignment 11-20-19#page4.tif source=ZTE - OIN - Executed Patent Assignment 11-20-19#page5.tif source=ZTE - OIN - Executed Patent Assignment 11-20-19#page6.tif source=ZTE - OIN - Executed Patent Assignment 11-20-19#page7.tif source=ZTE - OIN - Executed Patent Assignment 11-20-19#page8.tif source=ZTE - OIN - Executed Patent Assignment 11-20-19#page9.tif source=ZTE - OIN - Executed Patent Assignment 11-20-19#page10.tif source=ZTE - OIN - Executed Patent Assignment 11-20-19#page11.tif source=ZTE - OIN - Executed Patent Assignment 11-20-19#page12.tif source=ZTE - OIN - Executed Patent Assignment 11-20-19#page13.tif source=ZTE - OIN - Executed Patent Assignment 11-20-19#page14.tif source=ZTE - OIN - Executed Patent Assignment 11-20-19#page15.tif source=ZTE - OIN - Executed Patent Assignment 11-20-19#page16.tif source=ZTE - OIN - Executed Patent Assignment 11-20-19#page17.tif source=ZTE - OIN - Executed Patent Assignment 11-20-19#page18.tif	

EXHIBIT B

Assignment of Patent Rights

WHEREAS, ZTE Corporation, a Chinese corporation, having offices at No.55 Keiji South Road, Shenzhen, P.R.C (hereinafter referred to as the “**Assignor**”), owns the patents set forth on Exhibit A.1 (“**Listed Patents**”).

WHEREAS, Open Invention Network LLC, a Delaware limited liability company having a mailing address of Research Triangle Park Center, 4819 Emperor Blvd., Suite 400, Durham, NC 27703 (hereinafter referred to as “**Assignee**”) is desirous of acquiring the aforesaid patents; and

WHEREAS, Assignor and Assignee are desirous of confirming the assignment for purposes of filing the same with the United States Patent and Trademark Office and other appropriate governmental offices.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby sells, transfer, assigns, and delivers unto Assignee, effective as of Effective Date (as defined in the Patent Purchase Agreement between Assignor and Assignee), all of its right, title, and interest in and to the aforesaid patents. Assignor also sells, transfers, assigns, and delivers unto Assignee, and its successors, all rights, title and interest that exist today and may exist in the future in and to all of the following (collectively, the “**Patent Rights**”):

- (a) All Listed Patents;
- (b) All patents and patent applications or other similar governmental grants or issuances worldwide from which any of the Listed Patents directly or indirectly claims priority or that were commonly-owned applications that incorporate by reference, or are incorporated by reference into, any of the Listed Patents;
- (c) All reissues, reexaminations, continuations, continuations-in-part, continuing prosecution applications, request for continuing examination, divisionals, terminal disclaimers, renewals and extensions of any item in any of the foregoing categories (a) and (b); and
- (d) Foreign patents, patent applications (whether pending, issued, abandoned or filed after the Effective Date) and foreign counterparts to any or all of the foregoing categories (a) through (c), including any “application” within the meaning of Patent Cooperation Treaty Article 2(i), any “patent” within the meaning of Patent Cooperation Treaty Article 2(ii), any utility models, certificates of invention, industrial design protections, and equivalent rights worldwide. (the “**Transferred Patents**”);

- (e) Inventions, invention disclosures and discoveries described in any of the Transferred Patents;
- (f) Rights to apply in any or all countries of the world for any of the Transferred Patents and the inventions, invention disclosures and discoveries therein;
- (g) Causes of action (whether currently pending, filed or otherwise) and other enforcement rights under, or on account of, any of the Transferred Patents and/or the rights described in Paragraph 2.2(b), 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, current and future infringement; and
- (h) Rights to collect past, current and further royalties or other payments under or on account of any of the Transferred Patents and/or any of the foregoing.

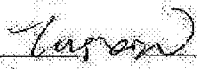
AND Assignor hereby agrees to execute without further consideration any further documents and instruments which is lawful and proper in the prosecution of the Transferred Patents, and which may be desirable or necessary to secure to Assignee its rights, title and interest in and to said Transferred Patents;

AND Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents 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.

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

IN WITNESS WHEREOF this Assignment of Patent Rights is executed at 2pm on 20th November, 2019.

ZTE Corporation



Signature
Tong Xin

Printed Name
Deputy IP Officer

Title
November 20, 2019

Date

Open Invention Network LLC



Signature
Keith Bergelt

Printed Name
CEO

Title
November 19, 2019

Date

EXHIBIT A										
Assigned Patents										
Country	Status	Patent No.	Issue Date	Application No.	Filing Date	Publication No.	Publication Date	Earliest Priority Date	Priority Details	EP Validations ?? or latest date included for cases that do not have an official "lapsed" status
CN	Withdrawn			CN01139026.3	11/30/2001	CN1423458A	06/11/2003	11/30/2001	None	
PCT	Done			PCT/CN2002/000854	11/28/2002	WO/2003/047156	06/05/2003	11/30/2001	CN01139026.3	
AU	Abandoned			2002349463	06/10/2003			11/30/2001	Nat'l Phase of PCT/CN2002/000854	
EP	Issued	EP1450510	09/19/2012	02782652.8	06/02/2004	1450510	08/25/2004	11/30/2001	Nat'l Phase of PCT/CN2002/000854	<u>DE</u> DE File No.: 602 43 733.4 Next Renewal: 11/30/2019
										<u>FR</u> Next Renewal: 12/02/2019
										<u>GB</u> Application No.: EP02782652.8 Next Renewal: 11/28/2019
										<u>IT</u> Next Renewal: 11/28/2019
US	Issued	7,315,512	01/01/2008	10/496,818	01/06/2005	US 2005-0105695 A1	05/19/2005	11/30/2001	Nat'l Phase (371) of PCT/CN2002/000854	
CN	Issued	CN100589359C	02/10/2010	200810093233.5	04/23/2008	101262305	09/10/2008	04/23/2008	None	
PCT	Done			PCT/CN2008/072132	08/25/2008	WO/2009/129675	10/29/2009	04/23/2008	CN200810093233.5	

Assigned Agents

Country	Status	Patent No.	Issue Date	Application No.	Filing Date	Publication No.	Publication Date	Earliest Priority Date	Priority Details	IP Validations PCT or local date included for cases that do not have an official "lapsed" status
EP	Issued	EP271018	10/04/2017	08780122.7	10/22/2010	2771018	01/06/2011	04/23/2008	Next Phase of PCT/EP2008/073132	<u>DE</u> DE File No.: 60 248 052.376.4 Next Renewal: 08/31/2019 <u>EP</u> Next Renewal: 08/31/2019 <u>GB</u> Application No.: EP09784122.7 Next Renewal: 08/31/2019 <u>IE</u> Next Renewal: 07/
RU	Abandoned	RU2444137C1	02/25/2012	RU20101433269A	05/16/2017		05/16/2017	04/23/2008	Next Phase of PCT/EP2008/073132	
US	Expired	8,286,660	10/09/2012	12/588,643	10/26/2010	US 20114941034 A1	03/17/2011	04/23/2008	Next Phase of PCT/EP2008/073132	
CN	Issued	CN101577944B	05/23/2012	200910128021S	06/05/2009	101577844	11/11/2009	06/05/2009	None	
PCT	Done			PCT/CN2009/0173846	09/26/2009	WO/2010/119139	12/09/2010	06/05/2009	CN200910149024.8	
AU	Issued	2009317511	08/26/2009	2009317511	12/15/2011	AU2009147511A1	01/18/2012	06/05/2009	Next Phase of PCT/EP2008/073132	

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Country	Status	Patent No.	Issue Date	Application No.	Filing Date	Publication No.	Publication n Date	Earliest Priority Date	Priority Details	EP Validations ??? or latest date included for cases that do not have an official "lapsed" status
CA	Issued	2,764,530	08/11/2015	2764530	12/05/2011	CA2764530A1	08/11/2015	06/05/2009	Nat'l Phase of PCT/CN2009/073546	
EP	Issued	EP2439887	08/08/2018	090845419.2	12/12/2011	2439887	04/11/2012	06/05/2009	Nat'l Phase of PCT/CN2009/073546	<u>DE</u> DE File No. : 60 2009 053 812.8 Next Renewal: 08/31/2020 <u>IE</u> Next Renewal: ??
JP	Issued	JP2012529200A	06/04/2014	2012-513445	12/05/2011	JP 2013-505209A	02/14/2013	06/05/2009	Nat'l Phase of PCT/CN2009/073546	
KR	Issued	1020117029853	09/01/2014	10-1435169-0000	12/13/2011	1020120024770	09/01/2014	06/05/2009	Nat'l Phase of PCT/CN2009/073546	
US	Issued	8,705,409	04/22/2014	13/258,562	12/02/2011	US 2012-0093033 A1	04/19/2012	06/05/2009	Nat'l Phase of PCT/CN2009/073546	
CN	Issued	CN101594320B	05/09/2012	200910142236.8	06/23/2009	101594320	05/09/2012	06/23/2009	None	
PCT	Done			PCT/CN2010/072997	05/20/2010	WO/2010/148849	12/29/2010	06/23/2009	CN200910142236.8	
EP	Issued	EP2448210	08/23/2017	10791355.0	01/13/2012	2448210	05/02/2012	06/23/2009	Nat'l Phase of PCT/CN2010/072997	<u>DE</u> DE File No. : 60 2010 044 679.4 Next Renewal: 05/31/2020
IN	Refused			170/CHENP/2012	01/04/2012			06/23/2009	Nat'l Phase of PCT/CN2010/072997	

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Country	Status	Patent No.	Issue Date	Application No.	Filing Date	Publication No.	Publication Date	Earliest Priority Date	Priority Details	EP Validations ?? or latest date included for cases that do not have an official "lapsed" status
JP	Issued	5468681	02/07/2014	2012-516493	12/22/2011	2012-530981A	12/06/2012	06/23/2009	Natl Phase of PCT/CN2010/072997	
US	Issued	8,645,519	02/04/2014	13/258,060	12/19/2011	US 2012-0096137 A1	04/19/2012	06/23/2009	Natl Phase of PCT/CN2010/072997	
CN	Refused			200910108353.2	06/19/2009	CN101610186A	12/23/2009	06/19/2009	None	
PCT	Done			PCT/CN2010/073629	06/07/2010	WO/2010/145472	12/23/2010	06/19/2009	CN200910108353.2	

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Country	Status	Patent No.	Issue Date	Application No.	Filing Date	Publication No.	Publication Date	Earliest Priority Date	Priority Details	EP Validations ???, or latest date included for cases that do not have an official "lapsed" status
EP	Issued	EP2432163	09/26/2018	10788868.7	12/16/2011	2432163	03/21/2012	06/19/2009	Nat'l Phase of PCT/CN2010/073629	<u>BE</u> Application No.: 107888687 Next Renewal: 01/01/2020
										<u>CH</u> Next Renewal: ??
										<u>DE</u> DE File No.: 60 2010 053 900.8 Next Renewal: 06/30/2020
										<u>FR</u> Next Renewal: 07/01/2019
										<u>GB</u> Application No.: EP10788868.7 Next Renewal: 06/07/2019
										<u>IE</u> Next Renewal: ???
										<u>LU</u> Next Renewal: 12/31/2019
										<u>MC</u> Next Renewal: 07/01/2019

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Country	Status	Patent No.	Issue Date	Application No.	Filing Date	Publication No.	Publication Date	Earliest Priority Date	Priority Details	EP Validations ?? or latest date included for cases that do not have an official "lapsed" status
US	Issued	9,112,143	08/18/2015	13/379,013	12/17/2011	US 2012-0096090 A1	04/19/2012	06/19/2009	Natl Phase (371) of PCT/CN2010/073629	
CN	Issued	CN101801059A	02/13/2018	201010118328.5	03/03/2010	CN101801059A	08/11/2010	03/03/2010	None	
PCT	Done			PCT/CN2010/075748	08/05/2010	WO/2011/106965	09/09/2011	03/03/2010	CN201010118328.5	
EP	Issued	EP2480027	05/11/2016	10846884.4	03/28/2012	2480027	07/25/2012	08/05/2010 03/03/2010	Natl Phase of PCT/CN2010/075748	DE DE File No.: 60 2010 033 394.9 Next Renewal: 08/31/2020 FR Next Renewal: 08/31/2020 GB Application No.: EP10846884.4 Next Renewal: 08/05/2020
US	Issued	8,856,271	10/07/2014	13/259,025	03/26/2012	US 2012-0179775 A1	07/12/2012	03/03/2010	Natl Phase (371) of PCT/CN2010/075748	
CN	Withdrawn			CN201010141487.7	03/25/2010	CN101848349A	09/29/2010	03/25/2010	None	

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Country	Status	Patent No.	Issue Date	Application No.	Filing Date	Publication No.	Publication Date	Earliest Priority Date
PCT	Done			PCT/CN2010/074355	06/23/2010	WO/2011/116554	09/29/2011	03/25/2010
								CN201010141487.7
								EP Validations ?? or latest date included for cases that do not have an official "lapsed" status

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Assigned Patents										
Country	Status	Patent No.	Issue Date	Application No.	Filing Date	Publication No.	Publication Date	Earliest Priority Date	Priority Details	EP Validations ?? or latest date included for cases that do not have an official "lapsed" status
EP	Issued	EP2552135	11/14/2018	10848216.7	03/28/2012	2552135	01/30/2013	03/25/2010	Nat'l Phase of PCT/CN2010/074355	<u>BE</u> Application No.: 108482167 Next Renewal: 01/01/2020
										<u>CH</u> Next Renewal: ??
										<u>DE</u> DE File No.: 60 2010 055 182.2 Next Renewal: 06/30/2020
										<u>FR</u> Next Renewal: 06/30/2020
										<u>GB</u> Application No.: EP10848216.7 Next Renewal: 06/23/2020
										<u>IE</u> Next Renewal: ??
										<u>LU</u> Next Renewal: 12/31/2019
										<u>MC</u> Next Renewal: 07/01/2019

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Country	Status	Patent No.	Issue Date	Application No.	Filing Date	Publication No.	Publication Date	Earliest Priority Date	Priority Details	EP Validations ??? or latest date included for cases that do not have an official "lapsed" status
CN	Issued	CN102014019A	12/16/2015	201010532000.8	11/04/2010	102014019A	04/13/2011	11/04/2010	None	
PCT	Done			PCT/CN2011/071976	03/18/2011	WO/2012/058895	05/10/2012	11/04/2010	CN201010532000.8	
BR	Need to Verify (mpi.gov.br website has security warning, so did not proceed)			BR112013010869A	05/02/2013	BR112013010869A2	07/18/2017	11/04/2010	PCT/CN2011/071976	
EP	Issued	EP2627039	06/22/2016	11837425.5	05/09/2013	2627039	08/14/2013	11/04/2010	Nat'l Phase of PCT/CN2011/071976	DE DE File No.: 60 2011 027 638.7 Next Renewal: 03/31/2020 FR Next Renewal: 03/31/2020 GB Application No.: EP11837425.5 Next Renewal: 03/18/2020

EXHIBIT A									
Assigned Patents									
Country	Status	Patent No.	Issue Date	Application No.	Filing Date	Publication No.	Publication Date	Earliest Priority Date	Priority Details
CN	Issued	CN102572119B	10/21/2025	201110337454.4	10/31/2011	102572119A	07/11/2012	10/31/2011	None
PCT	Done			PCT/CN2012/074446	04/20/2012	WO2012155760A1	11/22/2012	10/31/2011	CN201110337454.4
EP	Issued	EP2747395	06/06/2018	12785381.0	01/23/2014	2747395	06/25/2014	10/31/2011	Nat'l Phase of PCT/CN2012/074446
US	Issued	9,271,232	02/23/2016	14/237,425	02/06/2014	US 2014-0185511A1	2016-02-23	10/31/2011	Nat'l Phase (371) of PCT/CN2012/074446
CN	Dismissed			201210133881.5	04/28/2012	CN102647311A	08/22/2012	04/28/2012	None
PCT	Done			PCT/CN2013/073269	03/27/2013	WO/2013/159623	10/31/2013	04/28/2012	CN201210133881.5

EXHIBIT A									
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Country	Status	Patent No.	Issue Date	Application No.	Filing Date	Publication No.	Publication Date	Earliest Priority Date	Priority Details
EP	Issued	EP2843876	07/06/2016	13782022.1	11/04/2014	2843876	03/04/2015	04/28/2012	Natl Phase of PCT/CN2013/073269
									<u>AT</u> Next Renewal: 03/31/2020 <u>DE</u> DE File No.: 60 2013 009 221.4 Next Renewal: 03/31/2020 <u>PL</u> Appl No.: PL13782022T Next Renewal: 03/31/2020
US	Abandoned			14/397,301	10/27/2014	US20150150076A1	05/28/2015	04/28/2012	Natl Phase (371) of PCT/CN2013/073269
CN	Dismissed			CN201210553144.0	12/19/2012	CN103067274A	04/24/2013	12/19/2012	None
PCT	Done			PCT/CN2013/083603	08/29/2013	2013189456	12/27/2013	12/19/2012	CN103067274A

EXHIBIT A									
Assigned Patents									
Country	Status	Patent No.	Issue Date	Application No.	Filing Date	Publication No.	Publication Date	Earliest Priority Date	Priority Details
EP	Issued	EP2922247	10/31/2018	13807157.6	06/18/2015	2922247	09/23/2015	12/19/2012	Nat'l Phase of PCT/CN2013/082603
US	Issued	9,806,990	10/31/2017	14/652,863	06/17/2015	US 2015-0341256 A1	11/26/2015	12/19/2012	Nat'l Phase (371) of PCT/CN2013/082603
CN	Withdrawn			CN201310373164.4	08/22/2013	CN104426936A	03/18/2015	08/22/2013	None
PCT	Done			PCT/CN2014/077711	05/16/2014	WO2014173341A1	10/30/2014	08/22/2013	CN104426936A
EP	Issued	EP3038306	12/20/2017	14788986.9	03/22/2016	3038306	06/29/2016	08/22/2013	Nat'l Phase of PCT/CN2014/077711

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Country	Status	Patent No.	Issue Date	Application No.	Filing Date	Publication No.	Publication Date	Earliest Priority Date	Priority Details	EP Validations ?? or latest date included for cases that do not have an official "lapsed" status
US	Abandoned			14/912,612	03/25/2016	US20160205022A1	07/14/2016	08/22/2013	Natl Phase (371) of PCT/CN2014/077711	
CN	Withdrawn			201410432361.3	08/28/2014	CN105376206A	03/02/2016	08/28/2014	None	
PCT	Done			PCT/CN2014/088906	10/20/2014	WQ2015117368A1	08/13/2015	08/28/2014	CN105376206A	

EXHIBIT A										
Assigned Patents										
Country	Status	Patent No.	Issue Date	Application No.	Filing Date	Publication No.	Publication Date	Earliest Priority Date	Priority Details	EP Validations ?? or latest date included for cases that do not have an official "lapsed" status
EP	Issued	EP3176989	02/20/2019	14881543.4	02/28/2017	3176989	06/07/2017	08/28/2014	Nat'l Phase of PCT/CN2014/088906	<u>AT</u> Next Renewal: ??
										<u>BE</u> Next Renewal: 10/31/2019
										<u>CH</u> Next Renewal: ??
										<u>DE</u> DE File No.: 60 2014 041 580.6
										Next Renewal: 10/31/2019
										<u>FR</u> Next Renewal: 10/31/2019
										<u>GB</u> Application No.: EP14881543.4
										Next Renewal: 10/20/2019
										<u>IE</u> Next Renewal: ??
										<u>IT</u> Next Renewal: ??
<u>LU</u> Next Renewal: 10/31/2019										
<u>MC</u> Next Renewal: 10/31/2019										
<u>SK</u> Next Renewal: ??										
US	Abandoned			15/507,048	07/06/2017	US20170353502A1	12/07/2017	08/28/2014	Nat'l Phase (371) of PCT/CN2014/088906	
CN	Withdrawn			201410111396.7	03/24/2014	CN104955085A		03/24/2014	None	

EXHIBIT A										
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Country	Status	Patent No.	Issue Date	Application No.	Filing Date	Publication No.	Publication n Date	Earliest Priority Date	Priority Details	EP Validations ??? or latest date included for cases that do not have an official "lapsed" status
PCT	Done			PCT/CN2014/087704	09/28/2014	WO2015143856A1		03/24/2014	CN104955085A	
EP	Issued	EP3110197	06/13/2018	14887428.2	09/21/2016	3110197	12/28/2016	03/24/2014	Natl'l Phase of PCT/CN2014/087704	DE DE File No.: 60 2014 027 176.6 Next Renewal: 09/30/2019 FR Next Renewal: 09/30/2019 GB Application No.: EP14887428.2 Next Renewal: 09/29/2019
US	Abandoned			15/128,408	09/28/2014	US20170111181A1	04/20/2017	03/24/2014	Natl'l Phase (371) of PCT/CN2014/087704	
CN	Issued	CN101090514B	05/12/2010	200610082884	06/15/2006	101090514	12/19/2007	06/15/2006	None	
CN	Issued	CN101110703B	11/30/2011	200710127770	06/28/2007	101110703	01/23/2008	06/28/2007	None	
CN	Issued	CN101594649B	11/28/2012	2008100987963	05/30/2008	101594649	12/02/2009	05/30/2008	None	
CN	Issued	CN101888672B	08/19/2015	201010222767	06/30/2010	101888672A	11/17/2010	06/30/2010	None	

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<u>Assigned Patents</u>									
Country	Status	Patent No.	Issue Date	Application No.	Filing Date	Publication No.	Publication Date	Earliest Priority Date	Priority Details
PCT	Done			PCT/CN2010/079429	12/03/2010	WO2012000286A1	01/05/2012	06/30/2010	CN101888672B
EP Validations ?? or latest date included for cases that do not have an official "lapsed" status									