

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6051943

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HUAWEI TECHNOLOGIES CO., LTD	09/26/2019
RECEIVING PARTY DATA	
Name:	APEX NET LLC
Street Address:	6009 W PARKER RD, STE 149-1001
City:	PLANO
State/Country:	TEXAS
Postal Code:	75093
PROPERTY NUMBERS Total: 67	
Property Type	Number
Patent Number:	9629192
Patent Number:	9497035
Patent Number:	8489726
Patent Number:	9425867
Patent Number:	9439127
Patent Number:	9887912
Patent Number:	9066281
Patent Number:	9603063
Patent Number:	9706476
Patent Number:	9326165
Patent Number:	9203487
Patent Number:	9942856
Patent Number:	9706462
Patent Number:	9357572
Patent Number:	9247018
Patent Number:	8750890
Patent Number:	8693402
Patent Number:	9602182
Patent Number:	9553804
Patent Number:	8380495

PATENT

Property Type	Number
Patent Number:	7711003
Patent Number:	8074243
Patent Number:	8498400
Patent Number:	8423769
Patent Number:	8626220
Patent Number:	9491212
Patent Number:	9356833
Patent Number:	8839195
Patent Number:	9430399
Patent Number:	9459948
Patent Number:	9154401
Patent Number:	7376359
Patent Number:	7936788
Patent Number:	7747789
Patent Number:	7984185
Patent Number:	7961757
Patent Number:	8149693
Patent Number:	7962160
Patent Number:	8270294
Patent Number:	8050279
Patent Number:	8451737
Patent Number:	8351792
Patent Number:	8498517
Patent Number:	8335201
Patent Number:	9154330
Patent Number:	8098576
Patent Number:	8285139
Patent Number:	8165107
Patent Number:	8094567
Patent Number:	8045446
Patent Number:	8289967
Patent Number:	9124509
Patent Number:	8724986
Patent Number:	9154224
Patent Number:	9325580
Patent Number:	9495327
Patent Number:	9054850
Patent Number:	9137195

Property Type	Number
Patent Number:	9578040
Patent Number:	9380133
Patent Number:	9596028
Patent Number:	9626815
Patent Number:	9647791
Patent Number:	9525505
Patent Number:	9791628
Patent Number:	10031294
Patent Number:	9829635

CORRESPONDENCE DATA

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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.

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NAME OF SUBMITTER:	TYFANIE NGUYEN
SIGNATURE:	/Tyfanie Nguyen/
DATE SIGNED:	04/08/2020
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 6

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Exhibit A2

PATENT ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, Huawei Technologies Co., Ltd., a corporation organized and existing under the laws of China, having offices at Administration Building, Section A, Huawei Base, Bantian, Longgang District, Shenzhen, 518129, People's Republic of China ("**Assignor**"), does hereby assign, transfer, and convey unto Apex Net LLC, a Texas limited liability company, having an address at 6009 W Parker Rd, Ste 149 – 1001, Plano, TX 75093-8121 ("**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 patent applications and patents listed in the table below (the "**Patents**" or "**Patent**");

Patent(s) No(s).	Patent Application No(s).	Country	Filing Date	Title of Patent(s) and First Named Inventor
9,629,192	14226181	US	31 Aug 2012	Method, Terminal, And System For Realizing Device To Device Communication
9,497,035	12950778	US	6 Feb 2009	Method, Device, And System For Playing Media Based On P2P
8,489,726	12980900	US	14 Oct 2009	Distributed Network Construction Method, System And Task Processing Method
9,425,867	13253254	US	20 Jul 2010	Pre-Processing Method, System, And Apparatus For Cooperative Communication
9,439,127	14161425	US	29 Jul 2011	Method For Data Transmission And Local Network Entity
9,887,912	15198268	US	25 Nov 2014	Flow Table Matching Method And Apparatus, And Openflow Switching System
9,066,281	13091555	US	21 Oct 2009	Method, Device, And System For Transmitting Packet Switched Services
9,603,063	14141001	US	02 Jul 2012	Communications Method, Device, And System
9,706,476	14729488	US	02 Apr 2013	Method For Obtaining Radio Access Network Information And Radio Access Network Controller
9,326,165	14186708	US	25 Jun 2012	Method, Device, Radio Network Controller And Chip For Improving Network Quality
9,203,487	14666150	US	14 Jan 2013	Method And Device For Indicating Pilot State
9,942,856	14735835	US	11 Dec 2012	Cell Configuration Method, Device And System
9,706,462	14719736	US	23 Nov 2012	Communication Method, User Equipment, And Single Radio Controller
9,357,572	14717285	US	21 Oct 2009	Method, Device, And System For Transmitting Packet Switched Services
9,247,018	13753833	US	19 May 2011	Method And Apparatus For Cooperation Between Push Devices
8,750,890	13717155	US	26 May 2011	Microcell Creating Method Based On Macrocell Network Coverage
8,693,402	13572406	US	25 May 2011	Data Transmission Method And Base Station

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9,602,182	14598342	US	07 Jan 2013	Baseband Processing Apparatus In Radio Communication System And Radio Communication
9,553,804	14609148	US	15 Jul 2013	Method, Device, And System For Supporting Content Subscription In Content Network
8,380,495	12691283	US	21 Jan 2010	Transcoding Method, Transcoding Device And Communication Apparatus
7,711,003	11901972	US	13 Jun 2006	Method For Reducing Service Loss In Interworking Between SS7 Signaling Network And M3UA, And A Signaling Gateway
8,074,243	12202907	US	27 Feb 2007	System And Method For Generating Electronic Program Guides
8,498,400	12638535	US	27 Aug 2008	Method And System For Implementing Number Portability Service
8,423,769	13211948	US	17 Aug 2011	Method And Apparatus For Generating Security Context
8,626,220	13305382	US	18 Mar 2010	Dynamic Spectrum Allocation Method And Device
9,491,212	13896114	US	06 Dec 2011	Method For Streaming Media And Media Controller
9,356,833	14028092	US	12 Dec 2011	Media Gateway Device And Method For Forwarding Data Frames
8,839,195	13552424	US	18 Jul 2011	Method, System And Terminal For Locating
9,430,399	13847344	US	16 May 2011	Multi-Core Online Patching Method And Apparatus
9,459,948	14145007	US	28 Feb 2013	Auxiliary Method, Apparatus And System For Diagnosing Failure Of Virtual Machine
9,154,401	14010205	US	30 Jun 2011	Method And Device For Establishing Router Neighbor
7,376,359	10506888	US	05 Mar 2003	Digital Regulated Light Receive Module And Regulation Method
7,936,788	11660016	US	13 Jul 2005	Method And Device For Signal Transporting
7,747,789	11569305	US	20 Apr 2006	Method For Selecting An Operating Mode Automatically
7,984,185	12100248	US	30 Sep 2006	Method And Device For Establishing Network Connection Service, And Automatically Switched Optical Network
7,961,757	11505954	US	29 Aug 2005	Device And Method For Interfacing To Advanced Switching Platform
8,149,693	11598363	US	08 Jun 2005	Method Of Implementing Association In Automatic Switched Optical Network (ASON)
7,962,160	11958921	US	12 Mar 2007	Method, System And Short Message Service Center For Getting User Equipment Information Through Short Messages
8,270,294	11940781	US	20 Jul 2006	Method And Apparatus For Implementing Multicast Service
8,050,279	11628601	US	10 Mar 2006	Method For Accessing Integrated Services By An Access Network
8,451,737	12120610	US	14 May 2008	Method For Processing Information Reporting, Information Reporting Device And System

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8,351,792	12142595	US	29 Nov 2006	System And Communication Method For Interconnecting Optical Network And Radio Communication Network
8,498,517	12190427	US	27 Nov 2006	Method And System Of Implementing Multimedia Recording And Media Resource Handling Device
8,335,201	12823645	US	26 Dec 2008	Call Control Method, Communication System, And Relevant Devices
9,154,330	12486005	US	21 Dec 2007	Method And Device Of Link Aggregation And Method And System For Transceiving Mac Frames
8,098,576	12391537	US	16 Aug 2007	Method And Apparatus For Providing Multicast Service With Multiple Types Of Protection And Recovery
8,285,139	12605067	US	23 Sep 2008	Method, System, And Apparatus For Managing Alarms In Long-Reach Passive Optical Network System
8,165,107	12603347	US	12 Nov 2008	Method And System For Obtaining Path Information, Path Computation Element
8,094,567	12428250	US	16 Nov 2007	Method For Transferring Test Messages And Network Element Device
8,045,446	12539772	US	26 Nov 2008	Method, Device And System For Eliminating DSL Crosstalk
8,289,967	12696315	US	29 Jan 2010	Packet Forwarding Method, Device And System
9,124,509	13536552	US	08 Dec 2010	Method, Apparatus, And System For Controlling Network Traffic Switching
8,724,986	13311084	US	04 Jun 2010	Method For Transmitting Impairment Information, Node, And Network System
9,154,224	13486728	US	29 Nov 2010	Method, Apparatus And System For Testing An Optical Network
9,325,580	13899224	US	13 Sep 2011	Method And Apparatus For Service Control On Access Node
9,495,327	13706134	US	07 Jun 2010	Service Configuration Method, Device And System
9,054,850	14095713	US	03 Jun 2011	Method And Device For Sending Data In Passive Optical Network
9,137,195	14106181	US	15 Jun 2012	Method, Network Device And User Equipment For Switching Media Access Control Address
9,578,040	14572514	US	30 Jun 2012	Packet Receiving Method, Deep Packet Inspection Device And System
9,380,133	14313793	US	12 Mar 2013	Communication Method, Apparatus And System
9,596,028	14269408	US	06 Jun 2012	Method And Controller For Commissioning Wavelength Division Multiplexing Optical Network During Capacity Expansion
9,626,815	14491002	US	22 Apr 2014	Method For Unlocking Electronic Device, And Apparatus Therefor
9,647,791	14569682	US	13 Jun 2012	Wavelength Configuration Method And Apparatus For Multi-Wavelength Passive Optical Network, And Multi-Wavelength Passive Optical Network System

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9,525,505	14616372	US	07 Aug 2012	Method And Apparatus For Acquiring Internal Fiber Connection Relationship In Reconfigurable Optical Add/Drop Multiplexer
9,791,628	14943902	US	15 May 2014	Optical Branching Assembly, Passive Optical Network, And Optical Transmission Method
10,031,294	15360642	US	30 Dec 2014	Optical Switch And Wavelength Division Multiplexing Optical System
9,829,635	15277931	US	28 Mar 2014	Optical Interconnector, Optoelectronic Chip System, And Optical Signal Sharing Method

(b) all patents and patent applications (i) to which the Patent directly or indirectly claims priority, (ii) for which the Patents directly or indirectly forms a basis for priority, and/or (iii) that share a common priority claim with 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) any foreign counterparts of (a) through (c);

(e) all rights to apply in any or all countries of the world for patents, certificates of invention, utility models, industrial design protections, design patent protections, or other governmental grants or issuances of any type related to any item in any of the foregoing categories (a) through (d), 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;

(f) all causes of action (whether known or unknown or whether currently pending, filed, or otherwise) and other enforcement rights under, or on account of, the Patents and/or any item in any of the foregoing categories (b) through (e), including, without limitation, all causes of action and other enforcement rights for

- (i) past, present, and future damages,
- (ii) injunctive relief, and
- (iii) any other remedies of any kind for past, present, and future infringement; and

(g) all rights to collect royalties and other payments under or on account of the Patent and/or any item in any of the foregoing categories (a) through (f).

For the avoidance of doubt, Assignee hereby agrees that the above Patent Rights do not include the CN200510100241.4, CN200680012108.6, CN200510136853.9, CN200680012209.3, CN200710077480.1, CN200610112345.1, CN200410076717.0, CN200610033656.9, CN200680012687.4, CN200710163635.3, CN200910107687.8, CN200910260757.3, CN201010505514.4, CN201010254366.3, CN201010562560.8, CN201180033248.2, CN201280001232.8, CN201210256870.6, CN201280000516.5, CN201380000212.3, CN201310432756.9, CN 201310749898.8 and CN 200910009647.X.

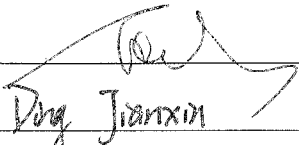
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Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models or other governmental grants or issuances that may be granted upon any of the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


The terms and conditions of this Assignment of Patent Rights will 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.

Exhibit A2

ASSIGNOR: Huawei Technologies Co., Ltd.

By: 
Name: Dong Jianxin
Title: Director of IP Dept.
Date: September 11, 2019

ASSIGNEE: Apex Net LLC

By: 
Name: Tyfanie Nguyen
Title: Managing Member
Date: 9/26/19