506479315 02/01/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6526091

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT		

CONVEYING PARTY DATA

Name	Execution Date
ZHE LIU	05/19/2020
CHAOBIN YANG	01/25/2021
YONG WANG	09/19/2020
QUANZHONG GAO	01/30/2021
HAO TANG	05/19/2020
FAN WANG	05/19/2020
GUOHUA ZHOU	05/19/2020

RECEIVING PARTY DATA

Name:	HUAWEI TECHNOLOGIES CO., LTD.		
Street Address:	Huawei Administration Building		
Internal Address:	Bantian, Longgang District		
City:	Shenzhen, Guangdong		
State/Country:	CHINA		
Postal Code:	518129		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16713588

CORRESPONDENCE DATA

Fax Number: (972)732-9218

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.

Phone: (972)732-1001

Email: docketing@slatermatsil.com

Correspondent Name: SLATER MATSIL, LLP

Address Line 1: 17950 PRESTON ROAD

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ATTORNEY DOCKET NUMBER:	HW 85449364US05
NAME OF SUBMITTER:	JENNIFER RUBIO
SIGNATURE:	/Jennifer Rubio/

PATENT 506479315 REEL: 055094 FRAME: 0268

DATE SIGNED:	02/01/2021			
Total Attachments: 8				
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source=HW 85449364US05 Assignmen	t as filed 2021-02-01#page8.tif			

Attorney Docket No. Client Reference No. 85449364US05

ASSIGNMENT

WHEREAS, WE,

Zhe Liu

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong

P.R.CHINA; and

Yong Wang

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong

P.R.CHINA; and

Hao Tang

Huawei Administration Building Bantian, Longgang District

Shenzhen, 518129, Guangdong

P.R.CHINA; and

Guohua Zhou

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong

P.R.CHINA;

Chaobin Yang

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong

P.R.CHINA; and

Quanzhong Gao

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong

P.R.CHINA; and

Fan Wang

300 South Oak Way, Green Park, Reading, Berkshire, UK, RG2

6UF; and

have invented and own a certain invention entitled:

UPLINK RESOURCE GRANT METHOD AND APPARATUS, AND SYSTEM

for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on 2019-12-13, under U.S. Application No. 16713588 and

WHEREAS, HUAWEI TECHNOLOGIES CO.,LTD., Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA;, hereinafter referred to as Assignee, is desirous of acquiring the entire domestic and foreign right, title, and interest in and under the invention described in the patent application.

Now, Therefore, for good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged, we assign and transfer to the Assignee and the Assignee's legal representatives, successors and assigns the full and exclusive rights in and to the invention in the U.S. and every foreign country and the entire right, title, and interest in and to the patent application and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every foreign country on the invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon, and we do hereby authorize and request the Commissioner of Patents to issue U.S. patents to the above-mentioned Assignee agreeably with the terms of this assignment document.

In	re	App	ln.	of L	iu	et	al.	
At	tor	nev	Do	cket	N	o.		

WE HEREBY AUTHORIZE the Assignee to insert in this assignment document the filing date and application number of the application if the date and number are unavailable at the time this document is executed.

WE DO HEREBY COVENANT and agree with the Assignee that we will not execute any writing or do any act whatsoever conflicting with the terms of this assignment document set

forth herein, and that we will at any time upon request, without further or additional consideration, but at the expense of the Assignee, execute such additional assignments and other writings and do such additional acts as the Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the U.S. or of any and all foreign countries on the invention, and in enforcing any rights or chooses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

IN WITNESS WHEREOF, We have hereunder set our hands on the dates shown below.

Date May 19 2020	Zhe Liu
	Zhe Liu
Date	Chaobin Yang
Date	Yong Wang
Date	Quanzhong Gao
Date 11/ay 19, 2020	Hao Tang
Date May 19,2020	Fan Warg Fan Wang
Date May 19, 2020	Guohua Zhou Guohua Zhou

Attorney Docket No. Client Reference No. 85449364US05

ASSIGNMENT

WHEREAS, WE,

Zhe Liu

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R. CHINA; and

Yong Wang

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong

P.R.CHINA; and

Hao Tang

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong

P.R.CHINA: and

Guohua Zhou

Huawei Administration Building

Bantian, Longgang District

Shenzhen, 518129, Guangdong

P.R.CHINA;

Chaobin Yang

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong

P.R.CHINA; and

Quanzhong Gao

Huawei Administration Building Bantian, Longgang District

Shenzhen, 518129, Guangdong

P.R.CHINA, and

Fan Wang

300 South Oak Way, Green Park, Reading, Beckshire, UK, RG2

6UF; and

have invented and own a certain invention entitled;

UPLINK RESOURCE GRANT METHOD AND APPARATUS, AND SYSTEM

for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on 2019-12-13 under U.S. Application No. 16713588 and

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NOW, THEREFORE, for good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged, we assign and transfer to the Assignee and the Assignee's legal representatives, successors and assigns the full and exclusive rights in and to the invention in the U.S. and every foreign country and the entire right, title, and interest in and to the patent application and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petry patent applications, and utility model applications) that may be filed in the United States and every foreign country on the invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon, and we do hereby authorize and request the Commissioner of Patents to issue U.S. patents to the above-mentioned Assignee agreeably with the terms of this assignment document.

In re Appln. of Liu et al. Attorney Docket No.					
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writing or do any act whatsoever conflicting forth herein, and that we will at any ticonsideration, but at the expense of the A other writings and do such additional acts a perfect the Assignee's enjoyment of this a making application for and obtaining origing reissued, reexamined, and National phase particular on the invention, and in enforcing any right applications or patents, and by executing st	gree with the Assignee that we will not execute any ng with the terms of this assignment document set me upon request, without further or additional ssignee, execute such additional assignments and s the Assignee may deem necessary or desirable to ssignment, and render all necessary assistance in nal, continuation, continuation-in-part, divisional, atents of the U.S. or of any and all foreign countries ts or chooses in action accruing as a result of such tatements and other affidavits, it being understood shall bind, and inure to the benefit of, the assigns o.				
IN WITNESS WHEREOF, We have here	under set our hands on the dates shown below.				
Date	Zhe Liu				
Date Jan. 25, 202	Chaobin Yang Chaobin Yang				
Date	Yong Wang				
Date	Quanzhong Gao				
Date	Hao Tang				
Date	Fan Wang				

Guohua Zhou

Date_

PATENT REEL: 055094 FRAME: 0273

Attorney Docket No. Client Reference No. 85449364US05

ASSIGNMENT

WHEREAS, WE,

Zhe Liu Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and

Yong Wang Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and

Hao Tang Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and

Guohua Zhou Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; Chaobin Yang
Huawei Administration Building
Bantian, Longgang District
Shenzhen, 518129, Guangdong
P.R.CHINA; and

Quanzhong Gao Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and

Fan Wang 300 South Oak Way, Green Park, Reading, Berkshire, UK, RG2 6UF; and

have invented and own a certain invention entitled:

UPLINK RESOURCE GRANT METHOD AND APPARATUS, AND SYSTEM

for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on 2019-12-13 , under U.S. Application No. 16713588 and

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Now, Therefore, for good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged, we assign and transfer to the Assignee and the Assignee's legal representatives, successors and assigns the full and exclusive rights in and to the invention in the U.S. and every foreign country and the entire right, title, and interest in and to the patent application and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every foreign country on the invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon, and we do hereby authorize and request the Commissioner of Patents to issue U.S. patents to the above-mentioned Assignee agreeably with the terms of this assignment document.

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IN WITNESS WHEREOF, We have hereunder set our hands on the dates shown below.

Date	
	Zhe Liu
Date	
	Chaobin Yang
Date 9-19-2020	Yong wang
	Yong Wang
Date	
	Quanzhong Gao
Date	Hao Tang
	Itao Tang
Dota	
Date	Fan Wang
Date	
	Guohua Zhou

Attorney Docket No. Client Reference No. 85449364US05

ASSIGNMENT

WHEREAS, WE,

Zhe Liu

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and

Yong Wang

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong

P.R.CHINA; and

Hao Tang

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong

P.R.CHINA: and

Guohua Zhou

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong

P.R.CHINA:

Chaobin Yang

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong

P.R.CHINA; and

Quanzhong Gao Huawei Administration Building

Bantian, Longgang District Shenzhen, 518129, Guangdong

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In	re	App	ln.	of	Liu	et	al.
At	tor	ney	Do	ck	et N	o.	

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IN WITNESS WHEREOF, We have hereunder set our hands on the dates shown below.

Date	
	Zhe Liu
Date	
	Chaobin Yang
Date	V - NY
	Yong Wang
Date 7071, 1.30	Quanzhong Gao
	Quanzhong Gao
Date	
	Hao Tang
Date	Fan Wang
Date	
	Guohua Zhou

PATENT REEL: 055094 FRAME: 0277

RECORDED: 02/01/2021