

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT7624828

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CAIREN WENG	11/01/2022
TIANRAN ZHOU	09/19/2022
HAIFENG WU	10/29/2022
DACHAO WANG	10/31/2022
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Huawei Technologies Co., Ltd.
<b>Street Address:</b>	Huawei Administration Building
<b>Internal Address:</b>	Bantian, Longgang District
<b>City:</b>	Shenzhen, Guangdong
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	518129
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	17324943
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(312)616-5700
<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>	
<b>Phone:</b>	(312) 616-5600
<b>Email:</b>	assignments@leydig.com
<b>Correspondent Name:</b>	LEYDIG, VOIT & MAYER, LTD.
<b>Address Line 1:</b>	TWO PRUDENTIAL PLAZA, SUITE 4900
<b>Address Line 2:</b>	180 NORTH STETSON AVENUE
<b>Address Line 4:</b>	CHICAGO, ILLINOIS 60601-6731
<b>ATTORNEY DOCKET NUMBER:</b>	HW754462
<b>NAME OF SUBMITTER:</b>	KAJAL AMIN
<b>SIGNATURE:</b>	/Kajal Amin/
<b>DATE SIGNED:</b>	11/02/2022
<b>Total Attachments: 8</b>	

source=Assignment#page1.tif  
source=Assignment#page2.tif  
source=Assignment#page3.tif  
source=Assignment#page4.tif  
source=Assignment#page5.tif  
source=Assignment#page6.tif  
source=Assignment#page7.tif  
source=Assignment#page8.tif

**ASSIGNMENT**

**WHEREAS, WE,**

Cairen Weng  
Huawei Administration Building,  
Bantian, Longgang District,  
Shenzhen, 518129, Guangdong,  
P.R. China; and

Haifeng Wu  
Huawei Administration Building,  
Bantian, Longgang District,  
Shenzhen, 518129, Guangdong,  
P.R. China; and

Tianran Zhou  
Huawei Administration Building,  
Bantian, Longgang District,  
Shenzhen, 518129, Guangdong,  
P.R. China; and

Dachao Yang  
Huawei Administration Building,  
Bantian, Longgang District,  
Shenzhen, 518129, Guangdong,  
P.R. China.

have invented and own a certain invention entitled:

**TRAFFIC DETECTION METHOD, APPARATUS, AND SYSTEM**

for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on 2021-05-19, under U.S. Application No. 17324943 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.

**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



**ASSIGNMENT**

**WHEREAS, WE,**

Cairen Weng  
Huawei Administration Building,  
Bantian, Longgang District,  
Shenzhen, 518129, Guangdong,  
P.R. China; and

Tianran Zhou  
Huawei Administration Building,  
Bantian, Longgang District,  
Shenzhen, 518129, Guangdong,  
P.R. China; and

Haifeng Wu  
Huawei Administration Building,  
Bantian, Longgang District,  
Shenzhen, 518129, Guangdong,  
P.R. China; and

Dachao Yang  
Huawei Administration Building,  
Bantian, Longgang District,  
Shenzhen, 518129, Guangdong,  
P.R. China.

have invented and own a certain invention entitled:

**TRAFFIC DETECTION METHOD, APPARATUS, AND SYSTEM**

for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on 2021-05-19, under U.S. Application No. 17324943 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.

**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

In re Appln. of Weng et al.  
Attorney Docket No. HW754462

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 \_\_\_\_\_

\_\_\_\_\_  
Cairen Weng

Date Sep 19, 2022

Tianran Zhou  
\_\_\_\_\_  
Tianran Zhou

Date \_\_\_\_\_

\_\_\_\_\_  
Haifeng Wu

Date \_\_\_\_\_

\_\_\_\_\_  
Dachao Yang

**ASSIGNMENT**

**WHEREAS, WE,**

Cairen Weng  
Huawei Administration Building,  
Bantian, Longgang District,  
Shenzhen, 518129, Guangdong,  
P.R. China; and

Tianran Zhou  
Huawei Administration Building,  
Bantian, Longgang District,  
Shenzhen, 518129, Guangdong,  
P.R. China; and

Haifeng Wu  
Huawei Administration Building,  
Bantian, Longgang District,  
Shenzhen, 518129, Guangdong,  
P.R. China; and

Dachao Yang  
Huawei Administration Building,  
Bantian, Longgang District,  
Shenzhen, 518129, Guangdong,  
P.R. China.

have invented and own a certain invention entitled:

**TRAFFIC DETECTION METHOD, APPARATUS, AND SYSTEM**

for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on 2021-05-19, under U.S. Application No. 17324943 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.

**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

In re Appln. of Weng et al.  
Attorney Docket No. HW754462

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 \_\_\_\_\_

\_\_\_\_\_  
Cairen Weng

Date \_\_\_\_\_

\_\_\_\_\_  
Tianran Zhou

Date 2022-10-29

Haifeng Wu  
\_\_\_\_\_  
Haifeng Wu

Date \_\_\_\_\_

\_\_\_\_\_  
Dachao Yang



**ASSIGNMENT**

**WHEREAS, WE,**

Cairen Weng  
Huawei Administration Building,  
Bantian, Longgang District,  
Shenzhen, 518129, Guangdong,  
P.R. China; and

Tianran Zhou  
Huawei Administration Building,  
Bantian, Longgang District,  
Shenzhen, 518129, Guangdong,  
P.R. China; and

Haifeng Wu  
Huawei Administration Building,  
Bantian, Longgang District,  
Shenzhen, 518129, Guangdong,  
P.R. China; and

Dachao Yang  
Huawei Administration Building,  
Bantian, Longgang District,  
Shenzhen, 518129, Guangdong,  
P.R. China.

have invented and own a certain invention entitled:

**TRAFFIC DETECTION METHOD, APPARATUS, AND SYSTEM**

for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on 2021-05-19, under U.S. Application No. 17324943 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.

**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

In re Appln. of Weng et al.  
Attorney Docket No. HW754462

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 \_\_\_\_\_

\_\_\_\_\_  
Cairen Weng

Date \_\_\_\_\_

\_\_\_\_\_  
Tianran Zhou

Date \_\_\_\_\_

\_\_\_\_\_  
Haifeng Wu

Date 2022-10-31

Dachao Yang  
\_\_\_\_\_  
Dachao Yang