

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

Assignment ID: PATI546650

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Jinshan WANG	09/30/2024
Liming FANG	10/21/2020
Yanbo ZHAO	02/07/2023
Yanbin SUN	08/13/2024
Jianfei LIU	02/08/2023
Yumeng YANG	08/12/2024
Chao WANG	09/23/2024
RECEIVING PARTY DATA	
Company Name:	HUAWEI TECHNOLOGIES CO., LTD.
Street Address:	Huawei Administration Building, Bantian
Internal Address:	Longgang District, Guangdong
City:	Shenzhen
State/Country:	CHINA
Postal Code:	518129
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17987393
CORRESPONDENCE DATA	
Fax Number:	7035185499
<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:	(703)684-1111
Email:	huawei@ipfirm.com
Correspondent Name:	JOSHUA L PRITCHETT
Address Line 1:	2318 MILL ROAD
Address Line 2:	SUITE 1400
Address Line 4:	ALEXANDRIA, VIRGINIA 22314
ATTORNEY DOCKET NUMBER:	C6428-490
NAME OF SUBMITTER:	Daphne Ward
SIGNATURE:	Daphne Ward

PATENT

DATE SIGNED:	10/07/2024
<b>Total Attachments: 14</b> source=EFiled_Assignments#page1.tiff source=EFiled_Assignments#page2.tiff source=EFiled_Assignments#page3.tiff source=EFiled_Assignments#page4.tiff source=EFiled_Assignments#page5.tiff source=EFiled_Assignments#page6.tiff source=EFiled_Assignments#page7.tiff source=EFiled_Assignments#page8.tiff source=EFiled_Assignments#page9.tiff source=EFiled_Assignments#page10.tiff source=EFiled_Assignments#page11.tiff source=EFiled_Assignments#page12.tiff source=EFiled_Assignments#page13.tiff source=EFiled_Assignments#page14.tiff	

**ASSIGNMENT**

**WHEREAS, WE,**

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

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

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

Chao Wang  
Huawei Administration Building,  
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Liming Fang  
Huawei Administration Building,  
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P.R. China; and

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

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

have invented and own a certain invention entitled:  
**ECHO CANCELLATION METHOD AND TRANSCEIVER**  
for which invention we have executed an application (provisional or non-provisional) for a U.S.  
patent, which was filed on 2022-11-15, under U.S. Application No. 17987393 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 Appln. of Wang et al.  
Attorney Docket No. C6428-490

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

Date 2024.9.30

Jinshan Wang  
Jinshan Wang

Date \_\_\_\_\_

\_\_\_\_\_  
Liming Fang

Date \_\_\_\_\_

\_\_\_\_\_  
Yanbo Zhao

Date \_\_\_\_\_

\_\_\_\_\_  
Yanbin Sun

Date \_\_\_\_\_

\_\_\_\_\_  
Jianfei Liu

Date \_\_\_\_\_

\_\_\_\_\_  
Yumeng Yang

Date \_\_\_\_\_

\_\_\_\_\_  
Chao Wang

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Date \_\_\_\_\_

\_\_\_\_\_  
Jinshan Wang

Date Oct. 21. 2020

Liming Fang  
Liming Fang

Date \_\_\_\_\_

\_\_\_\_\_  
Yanbo Zhao

Date \_\_\_\_\_

\_\_\_\_\_  
Yanbin Sun

Date \_\_\_\_\_

\_\_\_\_\_  
Jianfei Liu

Date \_\_\_\_\_

\_\_\_\_\_  
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Date \_\_\_\_\_

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Date \_\_\_\_\_

\_\_\_\_\_  
Jinshan Wang

Date \_\_\_\_\_

\_\_\_\_\_  
Liming Fang

Date 2023-02-07

Yanbo Zhao  
\_\_\_\_\_  
Yanbo Zhao

Date \_\_\_\_\_

\_\_\_\_\_  
Yanbin Sun

Date \_\_\_\_\_

\_\_\_\_\_  
Jianfei Liu

Date \_\_\_\_\_

\_\_\_\_\_  
Yumeng Yang

Date \_\_\_\_\_

\_\_\_\_\_  
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Date \_\_\_\_\_  
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Date \_\_\_\_\_  
Yanbo Zhao

Date 2024. 8. 13  
Yanbin Sun

Date \_\_\_\_\_  
Jianfei Liu

Date \_\_\_\_\_  
Yumeng Yang

Date \_\_\_\_\_  
Chao Wang

**PATENT**

Attorney Docket No. C6428-490  
Client Reference No. 86654302US03

**ASSIGNMENT**

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Date 02/08/2023  
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Bantian, Longgang District,  
Shenzhen, 518129, Guangdong,  
P.R. China; and

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

have invented and own a certain invention entitled:

**ECHO CANCELLATION METHOD AND TRANSCEIVER**

for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on 2022-11-15, under U.S. Application No. 17987393 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 Appln. of Wang et al.  
Attorney Docket No. C6428-490

**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 \_\_\_\_\_  
Jinshan Wang

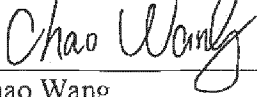
Date \_\_\_\_\_  
Liming Fang

Date \_\_\_\_\_  
Yanbo Zhao

Date \_\_\_\_\_  
Yanbin Sun

Date \_\_\_\_\_  
Jianfei Liu

Date \_\_\_\_\_  
Yumeng Yang

Date 2024-09-23  
  
Chao Wang