

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6777121

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HUANCHU HUANG	06/09/2021
YIJIN WANG	06/07/2021
XIANJING JIAN	06/07/2021
RECEIVING PARTY DATA	
Name:	VIVO MOBILE COMMUNICATION CO., LTD.
Street Address:	#283, BBK ROAD
Internal Address:	WUSHA, CHANG'AN
City:	DONGGUAN, GUANGDONG
State/Country:	CHINA
Postal Code:	523860
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17355506
CORRESPONDENCE DATA	
Fax Number:	(248)641-0270
<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:	248-641-1600
Email:	troy@mailroom@hdp.com
Correspondent Name:	HARNESS DICKEY (TROY)
Address Line 1:	5445 CORPORATE DR.
Address Line 2:	SUITE 200
Address Line 4:	TROY, MICHIGAN 48098
ATTORNEY DOCKET NUMBER:	18713-000055-US-CP
NAME OF SUBMITTER:	MICHAEL P. DOERR
SIGNATURE:	/ Michael P. Doerr /
DATE SIGNED:	06/23/2021
This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 8	

source=Combined Declaration and Assignment-55#page1.tif
source=Combined Declaration and Assignment-55#page2.tif
source=Combined Declaration and Assignment-55#page3.tif
source=Combined Declaration and Assignment-55#page4.tif
source=Combined Declaration and Assignment-55#page5.tif
source=Combined Declaration and Assignment-55#page6.tif
source=Combined Declaration and Assignment-55#page7.tif
source=Combined Declaration and Assignment-55#page8.tif

Docket No. ____

**COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY OR
DESIGN APPLICATION USING AN APPLICATION DATA SHEET
(37 CFR 1.76) AND ASSIGNMENT**

Title of Invention	ANTENNA STRUCTURE AND HIGH-FREQUENCY WIRELESS COMMUNICATIONS TERMINAL
<p>As a below named inventor, I hereby declare that:</p> <p>This declaration is directed to: <input checked="" type="checkbox"/> The attached application, or <input type="checkbox"/> United States application or PCT international application number _____ filed on _____.</p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.</p>	

I hereby authorize and request my attorney or representative to insert here in
parentheses (patent Application number _____, filed _____) the filing
date and application number of said US application when known.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and
adequacy of which are hereby acknowledged, each undersigned inventor (hereinafter
referred to as "ASSIGNOR"), do hereby:

SELL, ASSIGN AND TRANSFER to VIVO MOBILE COMMUNICATION
CO., LTD., having a place of business at #283, BBK Road, Wusha, Chang'an Dongguan,
Guangdong 523860, China, (hereinafter referred to as "ASSIGNEE") the entire right,
title and interest for the United States and all foreign countries in and to any and all
inventions which are disclosed in the above-identified application for United States
Letters Patent, which has been executed by the undersigned concurrently herewith, which
is a national phase filing of PCT/CN2019/126193 filed on December 18, 2019; which in turn
claims priority to 201811627261.0 filed on December 28, 2018; such applications and all
divisional, continuing, substitute, renewal, reissue and all other applications for patent
which have been or shall be filed in the United States and all foreign countries on any of
such inventions; all original and reissued patents which have been or shall be issued in
the United States and all foreign countries on such inventions; and specifically including
the right to file foreign applications under the provisions of any convention or treaty and
claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United
States and foreign patents granted on such inventions to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such inventions; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such inventions and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such inventions in the Assignee, and for securing, maintaining and enforcing proper patent protection for such inventions;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

The assignment of said invention is effective as of the earlier of (1) the date of execution shown below or (2) the filing date of the first filed of said patent applications.

STATEMENTS

I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent Office all information known to me to be material to patentability as defined in 37 C.F.R. 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part.

LEGAL NAME OF INVENTOR	
Inventor: <u>HuanChin Huang</u>	Date: <u>2021/6/9</u>
Signature: <u>HuanChin Huang</u>	

DECLARATION AND ASSIGNMENT¹

The undersigned acknowledges that this document is being used both as an assignment of the invention and as the declaration (37 CFR 1.63) for a Utility or Design Application entitled:

**ANTENNA STRUCTURE AND HIGH-FREQUENCY WIRELESS COMMUNICATIONS
TERMINAL**

As a below named inventor, I hereby declare that:

This declaration is directed to (check one):

- ☒ The attached application, which claims priority to PCT/CN2019/126193 filed on December 18, 2019 which in turn claims priority to CN201811627261.0, filed on December 28, 2018 or
- ☐ United States application or PCT international application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-identified application.

I hereby acknowledge that any willful false statement made in this Declaration and Assignment is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims.

I acknowledge that I am aware of the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

For good and valuable consideration, the receipt and adequacy whereof I hereby acknowledge, I hereby confirm any prior assignment to **VIVO MOBILE COMMUNICATION CO., LTD.**, of the P.R. China, having a place of business at **#283, BBK Road, Wusha, Chang'an, Dongguan, Guangdong 523860**, China (hereinafter "Assignee"), and to the extent that I have not already done so, agree to assign, and hereby do, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the

¹ This form requires an ADS if one has not yet been filed.

DECLARATION AND ASSIGNMENT

United States, the Paris Convention, and any foreign countries, to the inventions as described in the above-identified application, to the above-identified application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the above-identified application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by me had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights.

I hereby covenant and agree to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, any derivation proceedings relating thereto, and as to Letters Patent any supplemental examination, derivation proceeding, opposition, post grant review, reissue, re-examination, inter partes review, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth.

I hereby covenant that I have not made and will not make any assignment, sale, license, agreement or encumbrance which would conflict with this Declaration and Assignment.

I hereby request the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and request that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

DECLARATION AND ASSIGNMENT

I hereby grant the law firm of Harness, Dickey & Pierce, P.L.C. the power to insert on this Declaration and Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Yijin WANG

Yijin WANG

[Inventor Name]

2021/6/7

Dated

DECLARATION AND ASSIGNMENT¹

The undersigned acknowledges that this document is being used both as an assignment of the invention and as the declaration (37 CFR 1.63) for a Utility or Design Application entitled:

**ANTENNA STRUCTURE AND HIGH-FREQUENCY WIRELESS COMMUNICATIONS
TERMINAL**

As a below named inventor, I hereby declare that:

This declaration is directed to (check one):

- ☒ The attached application, which claims priority to PCT/CN2019/126193 filed on December 18, 2019 which in turn claims priority to CN201811627261.0, filed on December 28, 2018 or
- ☐ United States application or PCT international application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-identified application.

I hereby acknowledge that any willful false statement made in this Declaration and Assignment is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims.

I acknowledge that I am aware of the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

For good and valuable consideration, the receipt and adequacy whereof I hereby acknowledge, I hereby confirm any prior assignment to **VIVO MOBILE COMMUNICATION CO., LTD.**, of the P.R. China, having a place of business at **#283, BBK Road, Wusha, Chang'an, Dongguan, Guangdong 523860**, China (hereinafter "Assignee"), and to the extent that I have not already done so, agree to assign, and hereby do, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the

¹ This form requires an ADS if one has not yet been filed.

DECLARATION AND ASSIGNMENT

United States, the Paris Convention, and any foreign countries, to the inventions as described in the above-identified application, to the above-identified application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the above-identified application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by me had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights.

I hereby covenant and agree to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, any derivation proceedings relating thereto, and as to Letters Patent any supplemental examination, derivation proceeding, opposition, post grant review, reissue, re-examination, inter partes review, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth.

I hereby covenant that I have not made and will not make any assignment, sale, license, agreement or encumbrance which would conflict with this Declaration and Assignment.

I hereby request the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and request that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

Dated

DECLARATION AND ASSIGNMENT

I hereby grant the law firm of Harness, Dickey & Pierce, P.L.C. the power to insert on this Declaration and Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Xianjing JIAN

XIANJING JIAN

[Inventor Name]

2021/06/07

Dated