

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5976722

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CHENXI ZHU	02/20/2020
HNLGMEI LIU	02/20/2020
ZHENNIAN SUN	02/11/2020
RECEIVING PARTY DATA	
Name:	LENOVO (BEIJING) CO. LTD
Street Address:	NO. 6 SHANG DI WEST ROAD
Internal Address:	HAI DIAN DISTRICT
City:	BEIJING
State/Country:	CHINA
Postal Code:	100085
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16638386
CORRESPONDENCE DATA	
Fax Number:	(801)531-1929
<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:	801 994 4646
Email:	lruiz-orellana@kba.law
Correspondent Name:	KUNZLER LAW GROUP - LENOVO
Address Line 1:	50 W. BROADWAY
Address Line 2:	10TH FLOOR
Address Line 4:	SALT LAKE CITY, UTAH 84101
ATTORNEY DOCKET NUMBER:	SEC920170084-US-PCT
NAME OF SUBMITTER:	BRIAN C. KUNZLER
SIGNATURE:	/Brian C. Kunzler/
DATE SIGNED:	02/21/2020
Total Attachments: 6	
source=SEC920170084-US-PCT_exeLBL-ASSIGNMENT#page1.tif	
source=SEC920170084-US-PCT_exeLBL-ASSIGNMENT#page2.tif	

source=SEC920170084-US-PCT_exeLBL-ASSIGNMENT#page3.tif

source=SEC920170084-US-PCT_exeLBL-ASSIGNMENT#page4.tif

source=SEC920170084-US-PCT_exeLBL-ASSIGNMENT#page5.tif

source=SEC920170084-US-PCT_exeLBL-ASSIGNMENT#page6.tif

ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **Chenxi Zhu, Beijing, CHINA, Hongmei Liu, Beijing, CHINA, and Zhennian Sun, Beijing, CHINA**, have sold, assigned and transferred, and do hereby sell, assign and transfer, unto **Lenovo (Beijing) Limited**, a corporation of China, having a place of business at 6 Shangdi West Road, Haidian District, Beijing, China 100085, and its successors, assigns, and legal representatives, the entire right, title and interest for the United States of America in and to certain inventions described, illustrated and claimed in the following applications:

U.S. Application Serial No. 16/638,386 February 11, 2020, filed herein and entitled: **"ENCODING REFERENCE SIGNAL RECEIVED POWERS"**

International Application **PCT/CN2017/097223** filed on **August 11, 2017** entitled **"ENCODING REFERENCE SIGNAL RECEIVED POWERS"**; and

I hereby also sell, assign and transfer unto Assignee, the entire right, title and interest in and to the invention and in and to applications for Letters Patent therefor in all countries foreign to the United States of America, including all rights under any and all international conventions and treaties in respect of the invention and the applications for Letters Patent in foreign countries, and I further authorize Assignee to apply for Letters Patent in foreign countries directly in its own name, and to claim priority of the filing date of the application for Letters Patent of the United States of America under the provisions of any and all international conventions and treaties.

I hereby also sell, assign and transfer unto Assignee, the entire right, title and interest in and to other applications for Letters Patent on the inventions referenced in this Assignment and Agreement, and all rights, title and interest in and to all applications for Letters Patent in respect of the invention filed under any and all international conventions and treaties together with the entire right, title and interest in and to Letters Patent which may be issued upon the application(s) or any application(s) otherwise claiming priority thereto, and upon any divisions, extensions, continuations, reissues and/or re-examinations of such application(s).

I further authorize Assignee to apply for Letters Patent directly in its own name where applicable, and to claim priority of the filing date of the application for Letters Patent filed under the laws of the applicable country and under the provisions of any and all international conventions and treaties.

DOCKET NUMBER: SEC920170084-US-PCT

I hereby authorize Assignee to request the Commissioner of Patents of the United States of America to issue any Letters Patents upon the aforesaid application, divisions, extensions, continuations, reissues or re-examinations, to Assignee, for the sole use and benefit of Assignee, to the full end of the term for which Letters Patent may be granted, the same as they would have been held and enjoyed by me had this assignment not been made, and I hereby authorize Assignee to request the equivalent authorities in foreign countries to issue the patents of their respective countries to Assignee.

I agree that, when requested, I will, without charge to Assignee, but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing, maintaining and enforcing patents for the inventions in any and all countries and for vesting title thereto in Assignee.

I covenant with Assignee that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.

(1) Legal Name of Inventor: **Chenxi Zhu**

Signature: _____

Date: _____

2/20/20

(2) Legal Name of Inventor: **Hongmei Liu**

Signature: _____

Date: _____

(3) Legal Name of Inventor: **Zhennian Sun**

Signature: _____

Date: _____

ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **Chenxi Zhu, Beijing, CHINA; Hongmei Liu, Beijing, CHINA; and Zhennian Sun, Beijing, CHINA;** have sold, assigned and transferred, and do hereby sell, assign and transfer, unto Lenovo (Beijing) Limited, a corporation of China, having a place of business at 6 Shangdi West Road, Haidian District, Beijing, China 100085, and its successors, assigns, and legal representatives, the entire right, title and interest for the United States of America in and to certain inventions described, illustrated and claimed in the following applications:

U.S. Application Serial No. 16/638,386 February 11, 2020, filed herein and entitled:
"ENCODING REFERENCE SIGNAL RECEIVED POWERS"

International Application **PCT/CN2017/097223** filed on **August 11, 2017** entitled
"ENCODING REFERENCE SIGNAL RECEIVED POWERS"; and

I hereby also sell, assign and transfer unto Assignee, the entire right, title and interest in and to the invention and in and to applications for Letters Patent therefor in all countries foreign to the United States of America, including all rights under any and all international conventions and treaties in respect of the invention and the applications for Letters Patent in foreign countries, and I further authorize Assignee to apply for Letters Patent in foreign countries directly in its own name, and to claim priority of the filing date of the application for Letters Patent of the United States of America under the provisions of any and all international conventions and treaties.

I hereby also sell, assign and transfer unto Assignee, the entire right, title and interest in and to other applications for Letters Patent on the inventions referenced in this Assignment and Agreement, and all rights, title and interest in and to all applications for Letters Patent in respect of the invention filed under any and all international conventions and treaties together with the entire right, title and interest in and to Letters Patent which may be issued upon the application(s) or any application(s) otherwise claiming priority thereto, and upon any divisions, extensions, continuations, reissues and/or re-examinations of such application(s).

I further authorize Assignee to apply for Letters Patent directly in its own name where applicable, and to claim priority of the filing date of the application for Letters Patent filed under the laws of the applicable country and under the provisions of any and all international conventions and treaties.

I hereby authorize Assignee to request the Commissioner of Patents of the United States of America to issue any Letters Patents upon the aforesaid application, divisions, extensions, continuations, reissues or re-examinations, to Assignee, for the sole use and benefit of Assignee, to the full end of the term for which Letters Patent may be granted, the same as they would have been held and enjoyed by me had this assignment not been made, and I hereby authorize Assignee to request the equivalent authorities in foreign countries to issue the patents of their respective countries to Assignee.

I agree that, when requested, I will, without charge to Assignee, but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing, maintaining and enforcing patents for the inventions in any and all countries and for vesting title thereto in Assignee.

I covenant with Assignee that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.

(1) Legal Name of Inventor: **Chenxi Zhu**

Signature: _____ Date: _____

(2) Legal Name of Inventor: **Hongmei Liu**

Signature: Hongmei Liu Date: 2020-02-20

(3) Legal Name of Inventor: **Zhennian Sun**

Signature: _____ Date: _____

ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **Chenxi Zhu, Beijing, CHINA; Hongmei Liu, Beijing, CHINA; and Zhennian Sun, Beijing, CHINA;** have sold, assigned and transferred, and do hereby sell, assign and transfer, unto Lenovo (Beijing) Limited, a corporation of China, having a place of business at 6 Shangdi West Road, Haidian District, Beijing, China 100085, and its successors, assigns, and legal representatives, the entire right, title and interest for the United States of America in and to certain inventions described, illustrated and claimed in the following applications:

U.S. Application Serial No. 16/638,386 February 11, 2020, filed herein and entitled:
"ENCODING REFERENCE SIGNAL RECEIVED POWERS"

International Application **PCT/CN2017/097223** filed on **August 11, 2017** entitled
"ENCODING REFERENCE SIGNAL RECEIVED POWERS"; and

I hereby also sell, assign and transfer unto Assignee, the entire right, title and interest in and to the invention and in and to applications for Letters Patent therefor in all countries foreign to the United States of America, including all rights under any and all international conventions and treaties in respect of the invention and the applications for Letters Patent in foreign countries, and I further authorize Assignee to apply for Letters Patent in foreign countries directly in its own name, and to claim priority of the filing date of the application for Letters Patent of the United States of America under the provisions of any and all international conventions and treaties.

I hereby also sell, assign and transfer unto Assignee, the entire right, title and interest in and to other applications for Letters Patent on the inventions referenced in this Assignment and Agreement, and all rights, title and interest in and to all applications for Letters Patent in respect of the invention filed under any and all international conventions and treaties together with the entire right, title and interest in and to Letters Patent which may be issued upon the application(s) or any application(s) otherwise claiming priority thereto, and upon any divisions, extensions, continuations, reissues and/or re-examinations of such application(s).

I further authorize Assignee to apply for Letters Patent directly in its own name where applicable, and to claim priority of the filing date of the application for Letters Patent filed under the laws of the applicable country and under the provisions of any and all international conventions and treaties.

I hereby authorize Assignee to request the Commissioner of Patents of the United States of America to issue any Letters Patents upon the aforesaid application, divisions, extensions, continuations, reissues or re-examinations, to Assignee, for the sole use and benefit of Assignee, to the full end of the term for which Letters Patent may be granted, the same as they would have been held and enjoyed by me had this assignment not been made, and I hereby authorize Assignee to request the equivalent authorities in foreign countries to issue the patents of their respective countries to Assignee.

I agree that, when requested, I will, without charge to Assignee, but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing, maintaining and enforcing patents for the inventions in any and all countries and for vesting title thereto in Assignee.

I covenant with Assignee that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.

(1) Legal Name of Inventor: **Chenxi Zhu**

Signature: _____ Date: _____

(2) Legal Name of Inventor: **Hongmei Liu**

Signature: _____ Date: _____

(3) Legal Name of Inventor: **Zhennian Sun**

Signature: Zhennian Sun Date: 2020/2/11