505259459 01/02/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5306231

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
XUEJUAN GAO	09/03/2018
XUEMING PAN	09/04/2018

RECEIVING PARTY DATA

Name:	CHINA ACADEMY OF TELECOMMUNICATIONS TECHNOLOGY		
Street Address:	NO. 40 XUEYUAN ROAD		
Internal Address:	HAIDINAN DISTRICT		
City:	BEIJING		
State/Country:	CHINA		
Postal Code:	100191		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16312201

CORRESPONDENCE DATA

Fax Number:

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.

Email: ejahaj@foley.com

Correspondent Name: FOLEY AND LARDNER LLP
Address Line 1: 111 HUNTINGTON AVE

Address Line 2: SUITE 2500

Address Line 4: BOSTON, MASSACHUSETTS 02199

ATTORNEY DOCKET NUMBER:	100840-0619
NAME OF SUBMITTER:	MENG H. PUA
SIGNATURE:	/Meng H. Pua/
DATE SIGNED:	01/02/2019

Total Attachments: 3

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PATENT 505259459 REEL: 047884 FRAME: 0881

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor (hereinafter referred to singly and collectively as "ASSIGNOR") has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

China Academy of Telecommunications Technology NO.40 Xueyuan Rd., Haidian District, Beijing, 100191, P.R.China

(hereinafter referred to as "ASSIGNEE") its successors and assigns, the full and exclusive right, title and interest for the United States, its territories and possessions in and to this invention relating to

METHOD AND DEVICE FOR TRANSMITTING AND RECEIVING FEEDBACK INFORMATION

Check	executed concurrently herewith		
one	executed on		
	Serial No.	Filed	
	and		200000000000000000000000000000000000000

as set forth in this United States Patent Application

as well as in and to (a) all improvements and modifications of the above-identified invention or inventions, (b) the above-identified application and all other applications for Letters Patent of the United States for above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the Patent Cooperation Treaty, the Paris Convention and any other international agreement; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its

Page 1 of 3

successors and assigns, in any such proceeding in the United States; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, and declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

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.

ASSIGNOR HEREBY GRANTS to the law firm of Foley & Lardner LLP the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of Foley & Lardner LLP do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

NAME AND SIGNATURE OF INVENTOR

SIGNATURE GAO Xuezhan Date 2018.9.3 Name: GAO, Xuejuan

NAME AND SIGNATURE OF WITNESSES

Name: Zong, Wenyu

SIGNATURE Zong Wenym Date 2018.9.3
SIGNATURE Respoker Date 2018.9.3 Name: Peng, Dekun

NAME AND SIGNATURE OF INVENTOR

SIGNATURE PAN XVVII Date 2018.9,4 PAN, Xueming Name:

NAME AND SIGNATURE OF WITNESSES

Name: Zong, Wenyu

SIGNATURE Zong Wenym Date 2018.9.4
SIGNATURE PayDellon Date 2018.9.4 Name: Peng, Dekun

Page 3 of 3

RECORDED: 01/02/2019