

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	HAIPENG LEI	12/24/2018
	XIAODONG YU	12/24/2018
RECEIVING PARTY DATA		
Name:	LENOVO INNOVATIONS LIMITED (HONG KONG)	
Street Address:	23RD FLOOR, LINCOLN HOUSE	
Internal Address:	TAIKOO PLACE	
City:	HONG KONG	
State/Country:	CHINA	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16323101
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:	heather@kunzlerlaw.com	
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:	SEC950160020-US-PCT	
NAME OF SUBMITTER:	BRIAN C. KUNZLER	
SIGNATURE:	/Brian C. Kunzler/	
DATE SIGNED:	04/04/2019	
Total Attachments: 2		
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ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **Haipeng Lei, Beijing, China; and Xiaodong Yu, Beijing, China;** have sold, assigned and transferred, and do hereby sell, assign and transfer, unto **Lenovo Innovations Limited (Hong Kong)**., a corporation of China, having a place of business at 23rd Floor, Lincoln House, Taikoo Place, 979 King's Road, Quarry Bay, Hong Kong, and its successors, assigns, and legal representatives, the entire right, title and interest for the United States of America in and to certain inventions entitled **"DEVICE-TO-DEVICE TRANSMISSION"** as described, illustrated in Disclosure ID **SEC920160020-WO-PCT** and as described, illustrated and claimed in the following applications:

Application **PCT/CN2016/093154** filed **August 3, 2016** herein and entitled:
"DEVICE-TO-DEVICE TRANSMISSION "

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.

SEC920160020-WO-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: HAIPENG LEI

Signature: Haipeng Lei Date: 2018.12.24

(2) Legal Name of Inventor: XIAODONG YU

Signature: Xiaodong Yu Date: 2018.12.24