

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HUAWEI DEVICE CO., LTD.	06/30/2020
RECEIVING PARTY DATA	
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PROPERTY NUMBERS Total: 5	
Property Type	Number
Patent Number:	10049070
Patent Number:	9170801
Patent Number:	9418036
Patent Number:	9058264
Patent Number:	9699293
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	HWB-1035-1452-1456
NAME OF SUBMITTER:	H. WARREN BURNAM, JR.
SIGNATURE:	/H. Warren Burnam, Jr./
DATE SIGNED:	10/13/2020
Total Attachments: 2	
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ASSIGNMENT

WHEREAS, HUAWEI DEVICE CO., LTD. (hereinafter ASSIGNOR), a corporation duly organized and existing under the laws of the Country of China and doing business at B2-5 of Nanfang Factory, No.2 of Xincheng Road, Songshan Lake Science and Technology Industrial Zone, Dongguan 523808 China, has been assigned all right, title and interest in a certain inventions and US Patents as listed below (the "Patents"):

- (1) US Patent 10049070 issued on US Patent application US14/959321
(attorney docket: 1035-1452_ SH20250/US)
- (2) US Patent 9170801 issued on US Patent application US14/143078
(attorney docket: 1035-1453_ SH20251/US)
- (3) US Patent 9418036 issued on US Patent application US14/088675
(attorney docket: 1035-1454_ SH20252/US)
- (4) US Patent 9058264 issued on US Patent application US13/570722
(attorney docket: 1035-1455_ SH20253/US)
- (5) US Patent 9699293 issued on US Patent application US15/110657
(attorney docket: 1035-1456_ SH20254/US)

WHEREAS, ASSIGNOR hereby confirms that ASSIGNOR has the full right to convey all rights, as herein expressed, to the said Patents and the inventions embodied therein; and

WHEREAS, SHARP KABUSHIKI KAISHA (hereinafter ASSIGNEE), a corporation duly organized and existing under the laws of the Country of Japan and doing business at 1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan, is desirous of acquiring all interest therein.

NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, the full and exclusive right to the said inventions in the United

States, as described in the aforesaid Patents, and the right to sue for past infringement thereof.

And, ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any applications based on the Patents; and to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the inventions hereby transferred and for maintaining the Patents and any resulting patent applications, including reissue applications, and/or patents concerning said inventions.

I am authorized to execute this ASSIGNMENT on behalf of ASSIGNOR.

Executed this 30 day of June, 2020.

HUAWEI DEVICE CO., LTD

By: Yu Jian
Name: YU Jian
Title: Supervisor of IPR Process and
Operation Dept.