PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7251612

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHARP CORPORATION (A.K.A. SHARP KABUSHIKI KAISHA)	03/04/2022

RECEIVING PARTY DATA

Name:	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
Street Address:	NO. 18, HAIBIN ROAD, WUSHA, CHANG'AN
City:	DONGGUAN, GUANGDONG
State/Country:	CHINA

PROPERTY NUMBERS Total: 37

Property Type	Number
Patent Number:	8824600
Patent Number:	8886138
Patent Number:	9531462
Patent Number:	8917788
Patent Number:	9319909
Patent Number:	9369971
Patent Number:	10039091
Patent Number:	10284266
Patent Number:	10644769
Application Number:	16861737
Patent Number:	9332473
Patent Number:	9713022
Patent Number:	10966105
Patent Number:	10645602
Patent Number:	10390251
Patent Number:	9516530
Patent Number:	9270437
Patent Number:	9848410
Patent Number:	10375678
Patent Number:	9357460
Patent Number:	9913287

Property Type	Number
Patent Number:	9756678
Patent Number:	11044493
Application Number:	17149010
Patent Number:	10887619
Patent Number:	11234019
Patent Number:	10863186
Patent Number:	11234011
Patent Number:	11128891
Application Number:	17402952
Patent Number:	10440737
Patent Number:	10448448
Patent Number:	9883467
Patent Number:	10321348
Patent Number:	10396882
Patent Number:	10763946
Patent Number:	10798769

CORRESPONDENCE DATA

Fax Number: (703)821-8128

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.

Phone: 7039959887

Email: uspto@bayes.law

Correspondent Name: BAYES PLLC

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Address Line 2: SUITE 625

Address Line 4: MCLEAN, VIRGINIA 22102

ATTORNEY DOCKET NUMBER:	10060-00-0000
NAME OF SUBMITTER:	ZHIWEI ZOU
SIGNATURE:	/Zhiwei Zou/
DATE SIGNED:	03/29/2022

Total Attachments: 8

source=220304 Signed Patent Assignment Agreement - OPPO - Sharp#page1.tif
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Contract NO.
CN272021101140005
Text&Attachment NO.
CN272021101140005-F1

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT (this "Agreement") coming into force upon the last date of signature (the "Effective Date") is between: (i) Sharp Corporation (also known as Sharp Kabushiki Kaisha), a corporation duly incorporated and existing under the laws of Japan having a principal office at 1-Takumi-cho, Sakai-ku, Sakai-city, Osaka 590-8522 Japan ("Assignor"); and (ii) Guangdong OPPO Mobile Telecommunications Corp., Ltd, a Chinese limited company having its principal place of business at No. 18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China, ("Assignee").

WITNESSETH:

WHEREAS, Assignor now wishes to assign all right, title, and interest in and to the patents and patent applications identified on Schedules A and B attached hereto (collectively, the "Assigned Patents") to Assignee as set forth below.

NOW, THEREFORE, in consideration of the foregoing and the mutual promises and agreements contained in this Agreement, and for other good and valuable consideration the receipt and sufficiency of which are hereby acknowledged, the parties hereby agree as follows:

1. **Assignment**. Assignor hereby transfers, assigns, and conveys to Assignee, as of Effective Date, all right, title, and interest throughout the world (under any and all laws and in any and all jurisdictions) in and to all of the Assigned Patents, in each case, subject to all Existing Encumbrances (as defined below) and License Back to Assignor (as in paragraph 4 below). Subject to the foregoing, each of the Assigned Patents will hereafter be for Assignee's own use and enjoyment, and for the use and enjoyment of Assignee's successors and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor if this Agreement had not been made. The foregoing assignment includes, without limitation, the rights to (a) register or apply in all countries and regions for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for the Assigned Patents; (b) prosecute, maintain, and defend the Assigned Patents before any public or private agency, office or registrar including by filing reissues, reexaminations, divisions, continuations, continuations-in-part, substitutes, extensions and all other applications and post issue proceedings included in the Assigned Patents; (c) claim priority based on the filing dates of any of the Assigned Patents under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, the Paris Convention, and all other treaties of like purposes; and (d) sue and recover damages or other compensation for past, present, or future infringements of the Assigned Patents, the right to sue and obtain equitable relief, including injunctive relief, in respect of such infringements, and the right to fully and entirely stand in the place of the Assignor in all matters related to the Assigned Patents. As used in this Agreement, "Existing Encumbrances" means, in relation to the Assigned Patents, all licenses, covenants not to sue or assert, covenants to exhaust remedies, and commitments to license (such as commitments to license on ERAND or RAND terms), including any of the foregoing that results from a commitment or

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undertaking provided to one or more standards organizations, in each case that are binding on Assignor as of the Effective Date.

2. **Authorization.** Assignor also hereby expressly authorizes the patent office or governmental agency in each and every jurisdiction worldwide (including the Commissioner of Patents and Trademarks in the United States Patent and Trademark Office, and the corresponding entities or agencies in any applicable foreign countries or multinational authorities) (the "Applicable IP Offices") to: (a) issue any and all patents or certificates of invention or equivalent which may be granted upon any of the Assigned Patents in the name of Assignee, as the assignee to the Assignor's interest therein; and (b) record Assignee as the assignee of the Assigned Patents and to deliver to Assignee, and to Assignee's attorneys, agents, successors or assigns, all official documents and communications as may be warranted by this Agreement.

3. **Further Assurances.** Each party hereby agrees to execute and deliver to the other party all necessary documents and take all necessary actions reasonably requested by such party from time to time to confirm or effect the assignments set forth in this Agreement, or otherwise to carry out the purposes of this Agreement, including, without limitation, by providing executed originals of short-form assignment agreements entered into by Assignor and Assignee on the Effective Date for filing or otherwise evidencing the assignments set forth in this Agreement with the Applicable IP Offices; provided, however, that nothing herein will obligate Assignor to incur any cost or pay any expense in connection therewith.

4. **License Back to Assignor.** Assignee hereby grants to Assignor and each of its subsidiaries (but only for as long as it remains a subsidiary of Assignor) an irrevocable, perpetual, non-exclusive, worldwide, royalty-free, non-sublicensable, non-assignable (except as permitted in this section), and fully paid-up license, under the Assigned Patents, in all fields to: (a) use, develop, make, have made, sell, offer to sell, import, lease, and otherwise exploit any products; (b) use any method or process in manufacturing any product and use and perform any such method or process; and (c) otherwise practice the inventions claimed in the Assigned Patents in every manner. The foregoing license granted to Assignor and each of its affiliates and subsidiaries may be assigned, in whole or in part, to a successor to a substantial portion of business of Assignor, as a result of and based on the consummation of a transaction (or integrated series of transactions) involving a spin-off, divestiture, or reorganization of such business by means of (i) a distribution of shares to Assignor's then-existing shareholders, (ii) an initial public offering of voting securities, (iii) an internal reorganization that does not involve any third party, or (iv) a combination of the immediately preceding clauses (i), (ii) and (iii) above, provided that such assignee or successor agrees to be bound to all of the terms and conditions of this Agreement.

5. **Representations and Warranties.** Assignor represents and warrants to Assignee that (i) Assignor is the sole owner of each Assigned Patent, with the full right and power to assign each Assigned Patent to Assignee; (ii) each Assigned Patent is free and clear of all security interests and other liens; and (iii) all applicable application, maintenance, and annuity fees for each Assigned Patent that have become due have been timely paid as of Effective Date.

6. **Governing Law.** This Agreement will be governed by and construed and interpreted in accordance with the laws of Japan regardless of choice of law principles, as to all matters, including

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matters of validity, construction, effect, enforceability, performance and remedies and in respect of the statute of limitations or any other limitations period applicable to any claim, controversy or dispute.

7. **General Provisions.** This Agreement may be executed in any number of counterparts, each of which will be deemed to be an original, and all of which together will constitute one and the same instrument. Delivery of an executed counterpart of a signature page to this Agreement by facsimile or electronic mail will be as effective as delivery of a manually executed counterpart of this Agreement. This Agreement may not be supplemented, altered, or modified in any manner except by a writing signed by all parties hereto. The failure of any party to enforce any term or provision of this Agreement will not waive any of its rights under such term or provision.

IN WITNESS WHEREOF, Assignor and Assignee have caused this instrument to be executed by their respective duly authorized representative as of the Effective Date.

Assignor: Sharp Corporation (also known as Sharp Kabushiki Kaisha)

By: .....

Name: Mototaka Taneya

Title: Executive Managing Officer
BU President
Corporate Research & Development BU

Date:

Assignee: Guangdong OPPO Mobile Telecommunications Corp., Ltd

By: .....

Name: Feng Ying

Title: Head of IP

Date: 3/4/2022.

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Delivery of an executed counterpart of a signature page to this Agreement by facsimile or electronic mail will be as effective as delivery of a manually executed counterpart of this Agreement. This Agreement may not be supplemented, altered, or modified in any manner except by a writing signed by all parties hereto. The failure of any party to enforce any term or provision of this Agreement will not waive any of its rights under such term or provision.

IN WITNESS WHEREOF, Assignor and Assignee have caused this instrument to be executed by their respective duly authorized representative as of the Effective Date.

Assignor: Sharp Corporation (also known as Sharp Kabushiki Kaisha)

By: _____

Name: Mototaka Taneya

Title: Executive Managing Officer
BU President
Corporate Research & Development BU

Date:
4. Mar. 2022

Assignee: Guangdong OPPO Mobile Telecommunications Corp., Ltd

By: _____

Name: Feng Ying

Title: Head of IP

Date:

Schedule A

List of the 19 Assigned Patents

No.	Docket No. (Ref.)	Country	Application No.	Patent No.	Application Date
1	09R00809	CN	201710747652.5	201710747652.5	2017-08-25
1	09R00809	DE	602009059171.1	2352246	2009-10-20
1	09R00809	FR	09823496.6	2352246	2009-10-20
1	09R00809	GB	09823496.6	2352246	2009-10-20
1	09R00809	IN	3546/CHENP/2011		2009-10-20
1	09R00809	JP	2010-535762	5547648	2009-10-20
1	09R00809	US	13/126697	8824600	2009-10-20
1	09R00809	ZA	2011/03783	2011/03783	2009-10-20
2	09R01562	JP	2011-503785	5583115	2010-03-04
2	09R01562	US	13/255519	8886138	2010-03-04
2	09R01562	US	14/505033	9531462	2014-10-02
3	10R00848	BR	BR112012001554-0	BR112012001554-0	2010-07-16
3	10R00848	JP	2009-170789	5500894	2009-07-22
3	10R00848	MX	MX/a/2012/000863	315929	2010-07-16
3	10R00848	US	13/386040	8917788	2010-07-16
3	10R00848	VN	1-2012-00443	15730	2010-07-16
4	11R02061	US	13/249191	9319909	2011-09-29
5	12R00919	JP	2012-192315	6101980	2012-08-31
5	12R00919	US	14/346894	9369971	2012-08-13
6	12R01655	JP	2011-241104	5856810	2011-11-02
6	12R01655	JP	2015-241851	6034946	2015-12-11
6	12R01655	US	15/443032	10039091	2017-02-27
7	13R01240	JP	2014-551105	6316205	2013-12-03
7	13R01240	US	14/646464	10284266	2013-12-03
7	13R01240	US	16/385034	10644769	2019-04-16
7	13R01240	US	16/861737		2020-04-29
8	13R01456	US	13/890987	9332473	2013-05-09
8	13R01456	US	15/079645	9713022	2016-03-24
8	13R01456	US	15/649611	10966105	2017-07-13
9	15R01278	JP	2017510997	6781149	2016-04-05
9	15R01278	US	15/563959	10645602	2016-04-05
10	16R00407	CA	2992689		2016-07-12
10	16R00407	CN	201680042948.0		2016-07-12
10	16R00407	EP	16827671.5		2016-07-12
10	16R00407	MX	MX/a/2018/000769	377043	2016-07-12
10	16R00407	US	15/745814	10390251	2016-07-12
11	09R00806	CN	200980144086.2	200980144086.2	2009-08-31
11	09R00806	JP	2010-527775	5386493	2009-08-31
11	09R00806	US	13/062175	9516530	2009-08-31

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12	12R01046	CN	201280032977.0	201280032977.0	2012-07-02
12	12R01046	JP	2018026488	6734310	2018-02-16
12	12R01046	US	14/130666	9270437	2012-07-02
12	12R01046	US	14/993668	9848410	2016-01-12
12	12R01046	US	15/811316	10375678	2017-11-13
13	13R00853	CN	201480017120.0	201480017120.0	2014-03-06
13	13R00853	US	13/849423	9357460	2013-03-22
14	14R00471	CN	201480040142.9	201480040142.9	2014-07-01
14	14R00471	JP	2015-527243	6409231	2014-07-01
14	14R00471	US	14/905210	9913287	2014-07-01
15	14R00873	CN	201480067292.9	201480067292.9	2014-12-09
15	14R00873	EP	14869913.5		2014-12-09
15	14R00873	JP	2016-539198	6438478	2014-12-09
15	14R00873	US	14/106583	9756678	2013-12-13
16	16R01144	CN	201780008957.2		2017/01/26
16	16R01144	US	16/074049	11044493	2017/01/26
16	16R01144	US	17/149010		2021/01/14
17	16R01199	CN	201680080819.0		2016/12/22
17	16R01199	EP	16889440.0		2016/12/22
17	16R01199	US	16/074857	10887619	2016/12/22
17	16R01199	US	17/105986		2020/11/27
18	17R00633	US	16/328074	10863186	2017/08/01
18	17R00633	US	17/100099		2020/11/20
19	19X00558	JP	2019-201150		2019/11/06
19	19X00558	US	17/087654	11128891	2020/11/03
19	19X00558	US	17/402952		2021/08/16

CONTRACT

Schedule B

List of selected 6 qualified Patent Families

No	Family No	Country	Application No	Patent No	Application Date
1	15J02456	CA	2998606		2016-09-06
1	15J02456	CN	201680045849.8	201680045849.8	2016-09-06
1	15J02456	EP	16846316.4		2016-09-06
1	15J02456	JP	2017539845	6821577	2016-09-06
1	15J02456	MX	MX/a/2018/003171	378157	2016-09-06
1	15J02456	US	15/759865	10440737	2016-09-06
2	15J02457	CN	201680054009.8	201680054009.8	2016-09-06
2	15J02457	EP	16846315.6		2016-09-06
2	15J02457	IN	201847009518		2016-09-06
2	15J02457	JP	2017539844	6824887	2016-09-06
2	15J02457	KR	2018-7010233		2016-09-06
2	15J02457	US	15/759869	10448448	2016-09-06
3	14J00643	CN	201580012263.7	201580012263.7	2015-03-05
3	14J00643	DE	602015029895.0	3116259	2015-03-05
3	14J00643	FR	15758344.4	3116259	2015-03-05
3	14J00643	GB	15758344.4	3116259	2015-03-05
3	14J00643	JP	2016-506555	6503616	2015-03-05
3	14J00643	US	15/123267	9883467	2015-03-05
4	15J01829	CN	201680037765.X	201680037765.X	2016-07-06
4	15J01829	DE	602016048239.8	3322215	2016-07-06
4	15J01829	FR	16824359.0	3322215	2016-07-06
4	15J01829	GB	16824359.0	3322215	2016-07-06
4	15J01829	US	15/741734	10321348	2016-07-06
5	15J01703	CN	201680032359.4	201680032359.4	2016-06-28
5	15J01703	EP	16817902.6		2016-06-28
5	15J01703	US	15/736845	10396882	2016-06-28
5	15J01703	US	16/451048	10763946	2019-06-25
6	15R01312	CL	201801847	58.793	2017-01-05
6	15R01312	CN	201610007343.X	201610007343.X	2016-01-06
6	15R01312	DE	17735837.1	3402284	2017-01-05

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6	15R01312	FR	17735837.1	3402284	2017-01-05
6	15R01312	GB	17735837.1	3402284	2017-01-05
6	15R01312	US	16/067653	10798769	2017-01-05

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