

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7397504

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SONY MOBILE COMMUNICATIONS AB	02/14/2020
RECEIVING PARTY DATA	
Name:	SONY CORPORATION
Street Address:	1-7-1 KONAN, MIINATO-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	108-0075
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17788381
CORRESPONDENCE DATA	
Fax Number:	(216)592-5000
<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:	2165925000
Email:	patents@tuckerellis.com
Correspondent Name:	TUCKER ELLIS LLP
Address Line 1:	950 MAIN AVE, SUITE 1100
Address Line 4:	CLEVELAND, OHIO 44113
ATTORNEY DOCKET NUMBER:	SYP333378US01
NAME OF SUBMITTER:	M.DAVID GALIN
SIGNATURE:	/M.David Galin/
DATE SIGNED:	06/23/2022
Total Attachments: 10	
source=SYP333378US01_Assn_Invt_SOMC_SonyC#page1.tif	
source=SYP333378US01_Assn_Invt_SOMC_SonyC#page2.tif	
source=SYP333378US01_Assn_Invt_SOMC_SonyC#page3.tif	
source=SYP333378US01_Assn_Invt_SOMC_SonyC#page4.tif	
source=SYP333378US01_Assn_Invt_SOMC_SonyC#page5.tif	
source=SYP333378US01_Assn_Invt_SOMC_SonyC#page6.tif	

source=SYP333378US01_Assn_Invt_SOMC_SonyC#page7.tif
source=SYP333378US01_Assn_Invt_SOMC_SonyC#page8.tif
source=SYP333378US01_Assn_Invt_SOMC_SonyC#page9.tif
source=SYP333378US01_Assn_Invt_SOMC_SonyC#page10.tif

**FULL INVENTOR ASSIGNMENT AND FULL DIRECT OR INDIRECT ASSIGNMENT
FROM SONY MOBILE COMMUNICATIONS AB TO SONY CORPORATION**

WHEREAS, I, as a named inventor listed on the attached APPENDIX (hereinafter referred to as "APPENDIX"), have invented certain new and useful improvements in the invention(s) listed on the same, for which an application for Letters Patent was executed on the priority date included thereon;

AND WHEREAS, SONY MOBILE COMMUNICATIONS AB, a limited liability company incorporated under the laws of Sweden, having its registered office at Lund, Sweden, postal address at 221 88 Lund, Sweden, with registration number 556615-6658 (hereinafter referenced as "ASSIGNEE SOMC"), in accordance with my employment agreement and/or with a preexisting agreement or mutual understanding between myself and ASSIGNEE SOMC, is desirous of acquiring my entire right, title and interest in, to and under said invention(s), said application(s) disclosing the invention(s) and in, to and under any Letters Patent or similar legal protection which may be granted therefor in any and all countries worldwide (including in the territory of the United States of America);

AND WHEREAS, SONY CORPORATION, a corporation organized and existing under the laws of Japan, with offices at 1-7-1 Konan, Minato-ku, Tokyo 108-0075, Japan (hereinafter referenced as "ASSIGNEE SONY") is desirous of acquiring, directly or indirectly, the entire right, title and interest in, to and under said invention(s), said application(s) disclosing the invention(s) and in, to and under any Letters Patent or similar legal protection which may be granted therefor in any and all countries worldwide (including in the territory of the United States of America but excluding in the territory of Albania where ASSIGNEE SOMC shall remain a co-owner with ASSIGNEE SONY) held by ASSIGNEE SOMC as the sole owner to the rights by this assignment;

NOW THEREFORE, after good and valuable consideration or in consideration of the recognized value of any past and/or potential collaborative projects in the future, the receipt and sufficiency of which are hereby acknowledged, I, as an inventor as indicated above, by these presents do hereby assign, sell and transfer unto said ASSIGNEE SOMC, the entire right, title and interest in and to the said invention(s), said application(s), including any divisions, continuations, substitutions and renewals thereof, and in and to any and all Letters Patent which may be granted for said invention(s), in any country (including the territory of the United States of America), and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents or other industrial property protection throughout the world (including in the territory of the United States of America) in respect of the inventions which are the subjects of the applications for Letters Patent described herein, and this conveyance of interest includes the right for the ASSIGNEE SOMC, or its successors, assigns, and/or legal representatives, to bring, make, oppose, defend, appeal proceedings, claims or actions and obtain relief (and to retain any damages recovered) in respect of

any infringement, or any other cause of action arising from ownership, of any of the Patents or any patents granted on any of the applications for patents or filed as aforesaid, whether occurring before, on or after the date of this agreement.

I, as an inventor, further declare that I either have the obligation to assign or have already assigned the full and exclusive rights in and to any inventions made during my employment to said ASSIGNEE SOMC based on my employment contract with said ASSIGNEE SOMC, and/or that said ASSIGNEE SOMC has obtained full and exclusive rights in and to any such inventions based on applicable national law or in accordance with a preexisting agreement or mutual understanding between myself and ASSIGNEE SOMC, and that by this Assignment such transfer of right, title and interest in such inventions to said ASSIGNEE SOMC is herewith confirmed or restated.

CONCURRENTLY HERewith, after good and valuable consideration or in consideration of the recognized value of any past and/or potential collaborative projects in the future, the receipt and sufficiency of which are hereby acknowledged, ASSIGNEE SOMC has already assigned by other means to said ASSIGNEE SONY, or by these presents do hereby presently assign, sell and transfer, directly or indirectly, unto said ASSIGNEE SONY, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention(s), said application(s), including any divisions, continuations, substitutions and renewals thereof, and in and to any and all Letters Patent which may be granted for said invention(s), in any country (including the territory of the United States of America but excluding the territory of Albania where ASSIGNEE SOMC shall remain a co-owner with ASSIGNEE SONY), and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements, and to any other benefits accruing or to accrue to ASSIGNEE SOMC with respect to the filing of applications for patents or securing of patents or other industrial property protection throughout the world (including in the territory of the United States of America but excluding in the territory of Albania where ASSIGNEE SOMC shall remain a co-owner with ASSIGNEE SONY) in respect of the inventions which are subjects of the applications for Letters Patent described herein, and this conveyance of interest includes the right for the ASSIGNEE SONY, or its successors, assigns, and/or legal representatives, to bring, make, oppose, defend, appeal proceedings, claims or actions and obtain relief (and to retain any damages recovered) in respect of any infringement, or any other cause of action arising from ownership, of any of the Patents or any patents granted on any of the applications for patents or filed as aforesaid, whether occurring before, on or after the date of this agreement.

The undersigned inventor and ASSIGNEE SOMC hereby authorize and request the Commissioner of Patents of the United States and its territorial possessions, and other appropriate officials whose duty it is to issue patents in any country in the world, to issue any and all patents resulting from the aforesaid patent applications or any divisions, continuations, substitutions and renewals thereof, when granted, to ASSIGNEE SONY, as the assignee of the full right, title and interest in and to the same (or in the case of Albania to ASSIGNEE SOMC and ASSIGNEE SONY as co-assignees);

The undersigned inventor and ASSIGNEE SOMC further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE SONY, or

Assignment Inventor to SOMC and direct or indirect assignment to Sony Corp.

its designee or successors, without further remuneration, in order to perfect title in said invention(s), modifications, and improvements in said invention(s), applications and Letters Patent in any country in the world (including in the territory of the United States of America);

The undersigned inventor and ASSIGNEE SOMC further agree to properly execute and deliver and without further remuneration or consideration, such necessary or desirable and lawful papers for application(s) for foreign patents, for filing subdivisions of said application(s) for patent, and/or for obtaining any reissue or reissues of any Letters Patent which may be granted for the aforesaid invention(s), as ASSIGNEE SONY shall hereafter require and prepare at their own expense;

The undersigned inventor and ASSIGNEE SOMC further agree that ASSIGNEE SONY will, upon request, be provided promptly with all pertinent facts and documents relating to said application(s), said invention(s) and said Letters Patent and legal equivalents in foreign countries as may be known and accessible and will testify as to the same in any interference or litigation related thereto;

The undersigned inventor and ASSIGNEE SOMC hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

And the undersigned inventor and ASSIGNEE SOMC hereby authorize and request the attorney(s) of record in this application to insert on the APPENDIX any further identification, including the filing date and application number of the country in which an application for Letters Patent has been or will be subsequently filed, which may be necessary or desirable in order to comply with the rules of the patent office of that country for recordation of this document.

This Assignment Agreement shall be governed by and construed under the laws of the State of New York, United States of America, without regard to conflict of laws principles, all rights and remedies being governed by said laws.

Assignment inventor to SOMC and direct or indirect assignment to Sony Corp.

This assignment executed on the dates indicated below.

Kun Zhao

Name of inventor

Execution date of this assignment [DD/MONTH/YYYY]

Signature of inventor

SONY MOBILE COMMUNICATIONS AB

Date: 14 Feb 2020
[DD/MONTH/YYYY]

By: [Signature]
Name: NICOLAS ROSE
Title: IP SENIOR MANAGER
As duly authorized officer

SONY CORPORATION

Date: 25/February/2020
[DD/MONTH/YYYY]

By: [Signature]
Name: Masayoshi Doshida
Title: General Manager
As duly authorized officer Planning & Control Department
Intellectual Property Division
Sony Corporation

APPENDIX

Title	Inventors	SE Application	SE Filing Date	Sony Reference	U.S. Application	U.S. Filing Date
COMPOUND ANTENNA DEVICE FOR OMNIDIRECTIONAL COVERAGE	ZHAO, Kun YING, Zhinong	2050009-6	08 Jan 20	PS19 0099		

PATENT

**FULL INVENTOR ASSIGNMENT AND FULL DIRECT OR INDIRECT ASSIGNMENT
FROM SONY MOBILE COMMUNICATIONS AB TO SONY CORPORATION**

WHEREAS, I, as a named inventor listed on the attached APPENDIX (hereinafter referred to as "APPENDIX"), have invented certain new and useful improvements in the invention(s) listed on the same, for which an application for Letters Patent was executed on the priority date included thereon;

AND WHEREAS, SONY MOBILE COMMUNICATIONS AB, a limited liability company incorporated under the laws of Sweden, having its registered office at Lund, Sweden, postal address at 221 88 Lund, Sweden, with registration number 556615-6658 (hereinafter referenced as "ASSIGNEE SOMC"), in accordance with my employment agreement and/or with a preexisting agreement or mutual understanding between myself and ASSIGNEE SOMC, is desirous of acquiring my entire right, title and interest in, to and under said invention(s), said application(s) disclosing the invention(s) and in, to and under any Letters Patent or similar legal protection which may be granted therefor in any and all countries worldwide (including in the territory of the United States of America);

AND WHEREAS, SONY CORPORATION, a corporation organized and existing under the laws of Japan, with offices at 1-7-1 Konan, Minato-ku, Tokyo 108-0075, Japan (hereinafter referenced as "ASSIGNEE SONY") is desirous of acquiring, directly or indirectly, the entire right, title and interest in, to and under said invention(s), said application(s) disclosing the invention(s) and in, to and under any Letters Patent or similar legal protection which may be granted therefor in any and all countries worldwide (including in the territory of the United States of America but excluding in the territory of Albania where ASSIGNEE SOMC shall remain a co-owner with ASSIGNEE SONY) held by ASSIGNEE SOMC as the sole owner to the rights by this assignment;

NOW THEREFORE, after good and valuable consideration or in consideration of the recognized value of any past and/or potential collaborative projects in the future, the receipt and sufficiency of which are hereby acknowledged, I, as an inventor as indicated above, by these presents do hereby assign, sell and transfer unto said ASSIGNEE SOMC, the entire right, title and interest in and to the said invention(s), said application(s), including any divisions, continuations, substitutions and renewals thereof, and in and to any and all Letters Patent which may be granted for said invention(s), in any country (including the territory of the United States of America), and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents or other industrial property protection throughout the world (including in the territory of the United States of America) in respect of the inventions which are the subjects of the applications for Letters Patent described herein, and this conveyance of interest includes the right for the ASSIGNEE SOMC, or its successors, assigns, and/or legal representatives, to bring, make, oppose, defend, appeal proceedings, claims or actions and obtain relief (and to retain any damages recovered) in respect of

any infringement, or any other cause of action arising from ownership, of any of the Patents or any patents granted on any of the applications for patents or filed as aforesaid, whether occurring before, on or after the date of this agreement.

I, as an inventor, further declare that I either have the obligation to assign or have already assigned the full and exclusive rights in and to any inventions made during my employment to said ASSIGNEE SOMC based on my employment contract with said ASSIGNEE SOMC, and/or that said ASSIGNEE SOMC has obtained full and exclusive rights in and to any such inventions based on applicable national law or in accordance with a preexisting agreement or mutual understanding between myself and ASSIGNEE SOMC, and that by this Assignment such transfer of right, title and interest in such inventions to said ASSIGNEE SOMC is herewith confirmed or restated.

CONCURRENTLY HERewith, after good and valuable consideration or in consideration of the recognized value of any past and/or potential collaborative projects in the future, the receipt and sufficiency of which are hereby acknowledged, ASSIGNEE SOMC has already assigned by other means to said ASSIGNEE SONY, or by these presents do hereby presently assign, sell and transfer, directly or indirectly, unto said ASSIGNEE SONY, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention(s), said application(s), including any divisions, continuations, substitutions and renewals thereof, and in and to any and all Letters Patent which may be granted for said invention(s), in any country (including the territory of the United States of America but excluding the territory of Albania where ASSIGNEE SOMC shall remain a co-owner with ASSIGNEE SONY), and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements, and to any other benefits accruing or to accrue to ASSIGNEE SOMC with respect to the filing of applications for patents or securing of patents or other industrial property protection throughout the world (including in the territory of the United States of America but excluding in the territory of Albania where ASSIGNEE SOMC shall remain a co-owner with ASSIGNEE SONY) in respect of the inventions which are subjects of the applications for Letters Patent described herein, and this conveyance of interest includes the right for the ASSIGNEE SONY, or its successors, assigns, and/or legal representatives, to bring, make, oppose, defend, appeal proceedings, claims or actions and obtain relief (and to retain any damages recovered) in respect of any infringement, or any other cause of action arising from ownership, of any of the Patents or any patents granted on any of the applications for patents or filed as aforesaid, whether occurring before, on or after the date of this agreement.

The undersigned inventor and ASSIGNEE SOMC hereby authorize and request the Commissioner of Patents of the United States and its territorial possessions, and other appropriate officials whose duty it is to issue patents in any country in the world, to issue any and all patents resulting from the aforesaid patent applications or any divisions, continuations, substitutions and renewals thereof, when granted, to ASSIGNEE SONY, as the assignee of the full right, title and interest in and to the same (or in the case of Albania to ASSIGNEE SOMC and ASSIGNEE SONY as co-assignees);

The undersigned inventor and ASSIGNEE SOMC further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE SONY, or

Assignment Inventor to SOMC and direct or indirect assignment to Sony Corp.

its designee or successors, without further remuneration, in order to perfect title in said invention(s), modifications, and improvements in said invention(s), applications and Letters Patent in any country in the world (including in the territory of the United States of America);

The undersigned inventor and ASSIGNEE SOMC further agree to properly execute and deliver and without further remuneration or consideration, such necessary or desirable and lawful papers for application(s) for foreign patents, for filing subdivisions of said application(s) for patent, and/or for obtaining any reissue or reissues of any Letters Patent which may be granted for the aforesaid invention(s), as ASSIGNEE SONY shall hereafter require and prepare at their own expense;

The undersigned inventor and ASSIGNEE SOMC further agree that ASSIGNEE SONY will, upon request, be provided promptly with all pertinent facts and documents relating to said application(s), said invention(s) and said Letters Patent and legal equivalents in foreign countries as may be known and accessible and will testify as to the same in any interference or litigation related thereto;

The undersigned inventor and ASSIGNEE SOMC hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

And the undersigned inventor and ASSIGNEE SOMC hereby authorize and request the attorney(s) of record in this application to insert on the APPENDIX any further identification, including the filing date and application number of the country in which an application for Letters Patent has been or will be subsequently filed, which may be necessary or desirable in order to comply with the rules of the patent office of that country for recordation of this document.

This Assignment Agreement shall be governed by and construed under the laws of the State of New York, United States of America, without regard to conflict of laws principles, all rights and remedies being governed by said laws.

Assignment Inventor to SOMC and direct or indirect assignment to Sony Corp.

This assignment executed on the dates indicated below.

Zhinong Ying
Name of inventor Execution date of this assignment [DD/MONTH/YYYY]
Zhinong Ying 29/03/2020
Signature of inventor

SONY MOBILE COMMUNICATIONS AB

Date: 24 Feb 2020
[DD/MONTH/YYYY]
By: *[Signature]*
Name: NICHOLAS ROSE
Title: IP SENIOR MANAGER
As duly authorized officer

SONY CORPORATION

Date: 25 February 2020
[DD/MONTH/YYYY]
By: *[Signature]*
Name:
Title: Masayoshi Doshida
As duly authorized officer General Manager
Planning & Control Department
Intellectual Property Division
Sony Corporation

APPENDIX

Title	Inventors	SE Application	SE Filing Date	Sony Reference	U.S. Application	U.S. Filing Date
COMPOUND ANTENNA DEVICE FOR OMNIDIRECTIONAL COVERAGE	ZHAO, Kun YING, Zhinong	2050009-6	08 Jan 20	PS19 0099		

PATENT