506805088 08/06/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6851907

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| VIVEK SHARMA | 07/23/2021 |
| YUXIN WEI | 07/23/2021 |
| ANDERS BERGGREN | 05/08/2021 |
| YASSIN ADEN AWAD | 07/27/2021 |
| HIDEJI WAKABAYASHI | 07/23/2021 |

RECEIVING PARTY DATA

| Name: | SONY GROUP CORPORATION |
|-------------------|------------------------|
| Street Address: | 1-7-1 KONAN |
| Internal Address: | MINATO-KU, |
| City: | TOKYO |
| State/Country: | JAPAN |
| Postal Code: | 108-0075 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 17428982 |

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.

Phone: 5713766333

Email: anaquadocketing@xsensus.com

Correspondent Name: XSENSUS, LLP

Address Line 1: 100 DAINGERFIELD ROAD,

Address Line 2: SUITE 402

Address Line 4: ALEXANDRIA, VIRGINIA 22314

| ATTORNEY DOCKET NUMBER: | 16241US01 |
|-------------------------|--|
| NAME OF SUBMITTER: | TIERNEY FARRELL |
| SIGNATURE: | /TIERNEY FARRELL/ |
| DATE SIGNED: | 08/06/2021 |
| | This document serves as an Oath/Declaration (37 CFR 1.63). |

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506805088 REEL: 057100 FRAME: 0803

Total Attachments: 5 source=16241US01_Assignment#page1.tif source=16241US01_Assignment#page2.tif source=16241US01_Assignment#page3.tif source=16241US01_Assignment#page4.tif source=16241US01_Assignment#page5.tif

| *************************************** | |
|--|--|
| Title of Invention | COMMUNICATIONS DEVICE, INFRASTRUCTURE EQUIPMENT AND METHODS |
| Docket Number | SYP331806WO01 |
| As the below name | l inventor, I hereby declare that: |
| This declaration | ☐ The attached application, or |
| is directed to: | ☐ United States application or PCT international application number |
| | PCT/EP2020/051132 filed on Jan 17 2020 |
| The above-identific | d application was made or authorized to be made by me. |
| I believe that I am t | ne original inventor or an original joint inventor of a claimed invention in the application. |
| | ge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine not more than five (5) years, or both. |
| WHEREA | Sony Group Corporation |
| hereinafter referred | to as "ASSIGNEE") having a place of business at: |
| 1-7-1 Konan, Minato | -ku, Tokyo,108-0075,Japan |
| desires to acquire application; | the entire right, title and interest in said invention and the above-identified United States patent |
| acknowledged, I he identified United S and reissues, exten in countries foreign | EREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby treby assign to the ASSIGNEE, the entire right, title and interest in said invention and in the above-tates patent application and in all divisions, continuations and continuations-in-part of said application, sions and renewals of Letters Patent granted thereon, and in all corresponding patent applications filed to the United States ("foreign countries") and corresponding international patent applications, and in stuing on any such patent applications in the United States and foreign countries; |
| own name and the | ssign to the ASSIGNEE the right to file patent applications in foreign countries on said invention in its right to claim priority to the above-identified United States patent application under the terms of the ention and any other relevant treaties; |
| foreign countries t interest in and to | uthorize and request the United States Patent & Trademark Office and officials in patent offices in issue any and all of said Letters Patent to the ASSIGNEE as the assignee of my entire right, title and the same, for the sole use and behoof of the ASSIGNEE, its successors, assigns, and legal the full end of the term for which said Letters Patent may be granted; and |
| Further, I agree that, without further consideration, I will communicate to the ASSIGNEE any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, continuation-in-part, substitute, renewal and reissue applications, execute all necessary assignment papers to cause said Letters Patent to be issued to the ASSIGNEE, make all rightful oaths, and, perform all lawful acts to aid the ASSIGNEE, its successors and assigns, to obtain and enforce Letters Patent for said invention in the United States and foreign countries. | |
| | |
| LEGAL NAME (| OF INVENTOR |
| Inventor: Vivek S | harma Date: 23/07/2021 |
| Signature: / Vivek | Sharma / |

| CC5.23 | COMMUNICATIONS DEVICE, INFRASTRUCTURE EQUIPMENT AND METHODS |
|--|---|
| Title of Invention | |
| Docket Number | SYP331806WO01 |
| As the below named in | oventor, I hereby declare that: |
| This declaration | The attached application, or |
| is directed to: | United States application or PCT international application number PCT/EP2020/051132 filed onfiled on |
| The above-identified a | pplication was made or authorized to be made by me. |
| I believe that I am the | original inventor or an original joint inventor of a claimed invention in the application. |
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| WHEREAS, | Sony Group Corporation |
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| desires to acquire the application; | e entire right, title and interest in said invention and the above-identified United States patent |
| acknowledged, I here identified United State and reissues, extensio in countries foreign to | EFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby by assign to the ASSIGNEE, the entire right, title and interest in said invention and in the above-es patent application and in all divisions, continuations and continuations-in-part of said application, as and renewals of Letters Patent granted thereon, and in all corresponding patent applications filed the United States ("foreign countries") and corresponding international patent applications, and in ing on any such patent applications in the United States and foreign countries; |
| own name and the ri | on to the ASSIGNEE the right to file patent applications in foreign countries on said invention in its ght to claim priority to the above-identified United States patent application under the terms of the ion and any other relevant treaties; |
| foreign countries to in interest in and to t | norize and request the United States Patent & Trademark Office and officials in patent offices in suc any and all of said Letters Patent to the ASSIGNEE as the assignee of my entire right, title and he same, for the sole use and behoof of the ASSIGNEE, its successors, assigns, and legal full end of the term for which said Letters Patent may be granted; and |
| respecting said invent continuation-in-part, s Letters Patent to be is | the that, without further consideration, I will communicate to the ASSIGNEE any facts known to me ion, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause said sued to the ASSIGNEE, make all rightful oaths, and, perform all lawful acts to aid the ASSIGNEE, gns, to obtain and enforce Letters Patent for said invention in the United States and foreign countries. |
| | |
| LEGAL NAME OF | INVENTOR |
| Inventor: Yuxin Wei | Date: 23/07/2021 |
| Signature: /Yuxin Wei | / |

| CC5.23 | COMMUNICATIONS DEVICE, INFRASTRUCTURE EQUIPMENT AND METHODS |
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| Title of Invention | |
| Docket Number | SYP331806WO01 |
| As the below named in | oventor, I hereby declare that: |
| This declaration | ☐ The attached application, or |
| is directed to: | United States application or PCT international application number PCT/EP2020/051132 filed on |
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| own name and the ri | on to the ASSIGNEE the right to file patent applications in foreign countries on said invention in its ght to claim priority to the above-identified United States patent application under the terms of the ion and any other relevant treaties; |
| foreign countries to is interest in and to t | norize and request the United States Patent & Trademark Office and officials in patent offices in suc any and all of said Letters Patent to the ASSIGNEE as the assignee of my entire right, title and he same, for the sole use and behoof of the ASSIGNEE, its successors, assigns, and legal full end of the term for which said Letters Patent may be granted; and |
| respecting said invent continuation-in-part, s Letters Patent to be is | be that, without further consideration, I will communicate to the ASSIGNEE any facts known to me ion, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, ubstitute, renewal and reissue applications, execute all necessary assignment papers to cause said sued to the ASSIGNEE, make all rightful oaths, and, perform all lawful acts to aid the ASSIGNEE, gns, to obtain and enforce Letters Patent for said invention in the United States and foreign countries. |
| | |
| LEGAL NAME OF | INVENTOR |
| Inventor: Anders Ber | ggren Date: 2021-08-05 |
| Signature: /Anders Be | rggren/ |

| *************************************** | | COMMUNICATIONS DEVICE, INFRASTRUCTURE EQUIPMENT AND METHODS | |
|--|--|---|--|
| Title of Inve | 1 | | |
| | | | |
| Docket Num | ber | SYP331806WO01 | |
| As the below t | s the below named inventor, I hereby declare that: | | |
| This declaration is directed to: | on | ☐ The attached application, or | |
| | | United States application or PCT international application number PCT/EP2020/051132 filed onJan 17 2020 | |
| The above-ide | ntified ap | oplication was made or authorized to be made by me. | |
| I believe that I | am the o | riginal inventor or an original joint inventor of a claimed invention in the application. | |
| • | | that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine more than five (5) years, or both. | |
| WHI | EREAS, | Sony Group Corporation | |
| hereinafter ref | erred to a | s "ASSIGNEE") having a place of business at: | |
| 1-7-1 Konan, I | dinato-ku, | Tokyo,108-0075,Japan | |
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| acknowledged identified Uni and reissues, of in countries for | , I hereb ted States extension oreign to | EFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby y assign to the ASSIGNEE, the entire right, title and interest in said invention and in the aboves patent application and in all divisions, continuations and continuations-in-part of said application, as and renewals of Letters Patent granted thereon, and in all corresponding patent applications filed the United States ("foreign countries") and corresponding international patent applications, and in any such patent applications in the United States and foreign countries; | |
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| foreign count interest in a | ries to iss nd to th | orize and request the United States Patent & Trademark Office and officials in patent offices in sue any and all of said Letters Patent to the ASSIGNEE as the assignee of my entire right, title and see same, for the sole use and behoof of the ASSIGNEE, its successors, assigns, and legal full end of the term for which said Letters Patent may be granted; and | |
| Further, I agree that, without further consideration, I will communicate to the ASSIGNEE any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, continuation-in-part, substitute, renewal and reissue applications, execute all necessary assignment papers to cause said Letters Patent to be issued to the ASSIGNEE, make all rightful oaths, and, perform all lawful acts to aid the ASSIGNEE, its successors and assigns, to obtain and enforce Letters Patent for said invention in the United States and foreign countries. | | | |
| LEGAL NA | ME OF I | NVENTOR | |
| | 33.52 VX 3 | | |
| Inventor: Ye | ssin Ader | Awad Date: 27.07.2021 | |
| Signature: | /Yassin / | Aden Awad/ | |

| | ANALUSIS ANALO ARIAR ANALO ARIAR ANALONIS RAJURAR ANALONIS ANALONI | |
|--|--|--|
| Title of Invention | COMMUNICATIONS DEVICE, INFRASTRUCTURE EQUIPMENT AND METHODS | |
| Title of Invention | | |
| Docket Number | SYP331806WO01 | |
| As the below named in | below named inventor, I hereby declare that: | |
| This declaration is directed to: | ☐ The attached application, or | |
| | United States application or PCT international application number PCT/EP2020/051132 filed on | |
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| y 1958 A 47 - \$ 2 4 5 200 25 200 | BATEPA 277.AT | |
| LEGAL NAME OF | IN V EN LOK | |
| Inventor: Hideji Wak | abayashi Date: 23/July/2021 | |
| Signature: /Hideji Wak | abayashi/ | |

RECORDED: 08/06/2021