504612443 10/26/2017

PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------|----------------|
| MARTIN WARWICK BEALE | 08/09/2017 |
| CHRYSOVALANTIS KOSTA | 01/27/2016 |

RECEIVING PARTY DATA

| Name: | SONY CORPORATION | |
|-----------------|------------------------|--|
| Street Address: | 1-7-1 Konan, Minato-ku | |
| City: | Tokyo | |
| State/Country: | Japan | |
| Postal Code: | 108-0075 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15554747 |

CORRESPONDENCE DATA

Fax Number: (703)413-2220

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: (703) 413-3000

Email: dgebremichael@oblon.com

Correspondent Name: OBLON, ET AL.

Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

| ATTORNEY DOCKET NUMBER: | 506664US | |
|-------------------------|----------------------|--|
| NAME OF SUBMITTER: | DEJEN GEBREMICHAEL | |
| SIGNATURE: | /Dejen Gebremichael/ | |
| DATE SIGNED: | 10/26/2017 | |

Total Attachments: 2

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PATENT 504612443 REEL: 043955 FRAME: 0726

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

| Title of Invention | INFRASTRUCTURE EQUIPMENT, COMMUNICATIONS DEVICE AND METHODS | |
|--|---|--|
| As the below name | d inventor, I hereby declare that: | |
| This declaration 🛚 | The attached application, or | |
| is directed to: | United States application or PCT international application number | |
| The above-identifie | d application was made or authorized to be made by me. | |
| I believe that I am t | he original inventor or an original joint inventor of a claimed invention in the application. | |
| (hereinafter referrer (JP), is desirous of | NY CORPORATION d to as "ASSIGNEE") having places of business at: 1-7-1 Konan, Minato-ku, Tokyo 108-0075 acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent I therefore in the United States and its territorial possessions and in any and all foreign countries; | |
| NOW, THEREFORE, for good and valuable consideration which is hereby acknowledged, I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof. | | |
| and all foreign cour of my entire right, successors and assi | the and request the Patent Office Officials in the United States and its territorial possessions and any natives to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) gas, to the full end of the term for which said Letters Patent may be granted, as fully and untirely have been held by me had this Assignment and sale not been made. | |
| Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, 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 any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries. | | |
| I hereby acknow by fine or imprison | riedge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 ment of not more than five (5) years, or both. | |
| LEGAL NAME OF | INVENTOR | |
| Inventor: Martin | Warwick BEALE Date: 9 August 2017 | |
| Signature: | Mikaile | |

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

PATENT REEL: 043955 FRAME: 0727 I-15-044-US-PCT

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

| Title of Invention | INFRASTRUCTURE EQUIPMENT, COMMUNICATIONS DEVICE AND METHODS |
|---|---|
| As the below name | d inventor, I hereby declare that: |
| This declaration [| The attached application, or |
| is directed to: | United States application or PCT international application number filed on |
| The above-identifie | d application was made or authorized to be made by me. |
| I believe that I am t | he original inventor or an original joint inventor of a claimed invention in the application. |
| (hereinafter referred (JP), is desirous of | Y CORPORATION I to as "ASSIGNEE") having places of business at: 1-7-1 Konan, Minato-ku, Tokyo 108-0075 acquiring the entire right, title and interest in and to said invention and in and to any Letters granted therefore in the United States and its territorial possessions and in any and all foreign |
| sell, assign and fran and its ferriforial po International Conve and the entire right, States and its territo | ORE, for good and valuable consideration which is hereby acknowledged, I, by these presents do sfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States seessions and in all foreign countries (including the right to claim priority under the terms of the ntion and other relevant International Treaties and Arrangements from the aforesaid application) title and interest in and to any and all Letters Patent which may be granted therefor in the United rial possessions and in any and all foreign countries and in and to any and all divisions, reissues, itutions and renewals thereof. |
| any and all foreign assignee of my entir (his) successors and | we and request the Patent Office Officials in the United States and its territorial possessions and countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its assigns, to the full end of the term for which said Letters Patent may be granted, as fully and would have been held by me had this Assignment and sale not been made. |
| respecting said invectoring said invectoring said Letters F possible to aid said | hat I will communicate to said ASSIGNEE or its (his) representatives any facts known to me ention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, utc, renewal and reissue applications, execute all necessary assignment papers to cause any and latent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said ed States and its territorial possessions and in any and all foreign countries. |
| I hereby acknowle by fine or imprisona | edge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 tent of not more than five (5) years, or both. |
| LEGAL NAME OF | INVENTOR |
| Inventor: CHRYSO | Date: 27 Jun 6 |
| Signature: | Morrow |

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA. VIRGINIA 22314

PATENT REEL: 043955 FRAME: 0728

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