## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3541070

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
MATTHEW WILLIAM WEBB	07/21/2015
HIDEJI WAKABAYASHI	07/27/2015
BRIAN MARTIN	08/04/2015

### **RECEIVING PARTY DATA**

Name:	SONY CORPORATION	
Street Address:	treet 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:	14779763

### 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.

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kwijegunawardana@oblon.com Email:

**Correspondent Name:** OBLON. ET AL. Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	459350US8XPCT
NAME OF SUBMITTER:	KASUN WIJEGUNAWARDANA
SIGNATURE:	/Kasun Wijegunawardana/
DATE SIGNED:	09/24/2015
	This document serves as an Oath/Declaration (37 CFR 1.63).

### **Total Attachments: 3**

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> **PATENT** REEL: 036648 FRAME: 0472 503494445

## I-13-145-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

lile of Invention	ENODEB RESTRICTED TO SUPPORT MTC DEV	BANWIDTH A	ND POWE	BOOST	OPERA	поп
s the below named in	ventor, I hereby declare that:					1
his declaration	The attached application, or					
s directed to:	United States application or PCT	international applic	ation number			
	iled	^				
The state of the state of the	pplication was made or authorized original inventor or an original joi	I to be made by me. nt inventor of a clai	med invention	n the applic	ation.	
	SONY CORPORATION  as "ASSIGNEE") having places					
desirous of acquiring granted therefore in the NOW, THEREFO. assign and transfer uterritorial possessions. Convention and otheright, title and interesterritorial possessions substitutions and reauthorize all foreign countries entire right, title and assigns, to the full ehave been held by m Further, I agree the said invention, and renewall and reissued to said ASSI successors and assignssessions and in a	the entire right, this and increase in eventue right, the full and and is suid ASSIGNEE, the full and and in all foreign countries (inclur relevant International Treaties is in and to any and all Letters Ps and in any and all Letters Ps and in any and all foreign countries thereof:  and request the Patent Office Office issue any and all of said Letter interest in and to the same, for the form for which said Letter interest in and to the same, for the had of the term for which said Letter interest in and to the same, for the had of the term for which said Letter interest in and to the same, for the had of the term for which said Letter interest in and to the same, for the had of the term for which said Letter interest in and to the same, for the had of the term for which said Letter interest in and the same, said will communicate to said ASS estify in any legal proceeding, significant, and the same in the	possessions and in a cration which is her exclusive right to the ding the right to the and Arrangements ratent which may be attent which may be read to the color of the color	ny and all foreige by acknowledge the said invention priority under from the aforeign and all distances and all distances and all distances and its tented, to said Also of of said AS granted, as fully representatives and the said and all distances and a said and all distances and a said a	ged, I, by the don in the U der the terms and applications, reistrational posts SSIGNEE, its y and entirel any facts know visional, conduct of the conduct o	ese present inited State of the Int tion) and Inited State suces, conformation sessions are sessions are the assign (his) suce y as the se own to me attinuation, d Letters P ASSIGNE agtes and it	ts do sell, es and its ernational the entire tes and its linuations, and any and entered in the entire tes and entered in the entire tes and entered in the
	Matthew William Webb		Date:	121/0	715	
Inventor: Signature:	relx					

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

183 - 222 - 117	
Title of Invention	ENODEB RESTRICTED BANWIDTH AND POWER BOOST OPERATION TO SUPPORT MTC DEVICES
As the below name	d inventor, I hereby declare that:
	7. The attached similication, of
is directed to:	United States application or PCT international application number
The above-identifi	ed application 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.
WHEREAS, SC (hereinafter referr (IP), is desirous of Patent that may be	ony corporation of the United States and its territorial possessions and in any and all foreign
sell, assign and tr and its territorial International Con and the entire rig States and its terr	BFORE, for good and valuable consideration which is hereby acknowledged, I, by these presents do ansfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States possessions and in all foreign countries (including the right to claim priority under the terms of the vention and other relevant International Treaties and Arrangements from the aforesaid application) vention and interest in and to any and all Letters Patent which may be granted therefor in the United ht, title and interest in and to any and all foreign countries and in and to any and all divisions, reissues, isotitutions and renewals thereof.
I hereby authoriany and all forciassignee of my e (his) successors	prize and request the Patent Office Officials in the United States and its termonal percentage of the patent of the said ASSIGNEE as the gn countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE, its ntire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its ntire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its ntire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its ntire right, to the full end of the term for which said Letters Patent may be granted, as fully and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and and assigns, the said ASSIGNEE as the
Further, I age respecting said continuation, sul all of said Lette possible to aid to	ee that I will communicate to said ASSIGNEE or its (ins) representances any and invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, invention, and testify in any legal proceeding, sign all lawful papers to cause any and estitute, renewal and reissue applications, execute all necessary assignment papers to cause any and are Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything and ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said said ASSIGNEE, its (his) successors and in any and all foreign countries.
a de la contra contra	Omted States and its territorial possession made in this declaration is punishable under 18 U.S.C. 1001 nowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 somment of not more than five (5) years, or both.
LEGAL NAME	OF INVENTOR
Inventor: Hid	eji Wakabayashi Date: U1/2013 Wah Magahi
Signature:	Midia Warduph

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

> PATENT REEL: 036648 FRAME: 0474

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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 ENODEB RESTRICTED BANWIDTH AND POWER BOOST OPERATION TO SUPPORT MTC DEVICES
As the below named 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-identified application 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.
WHEREAS, SONY CORPORATION  (hereinafter referred to as "ASSIGNEE") having places of business at: 1-7-1 Konan, Minato-ku, Tokyo 108-0075  (IP), is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters  Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign
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 and its territorial possessions and in all foreign countries and Arrangements from the aforesaid application). 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 and the entire right, title and interest in and to any and all foreign countries and in any and all divisions, reissues, States and its territorial possessions and in any and all foreign countries and in any and all divisions, reissues,
I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its assignment and sale not been made.
Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to the 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 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 all of said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said possible to aid said ASSIGNEE, its (his) successors and in any and all foreign countries.
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.
LEGAL NAME OF INVENTOR
Inventor: Brian Martin  Date: 4 - 446 70 15
Signature:

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

> PATENT REEL: 036648 FRAME: 0475

**RECORDED: 09/24/2015**