01/19/2018 504736414

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4783140

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HIROYUKI KOBAYASHI	09/08/2017
TAKESHI YASUDA	11/14/2017
HIROKI MATSUSHITA	09/08/2017
TOMOMI KAGEYAMA	11/20/2017
TAKAYA OGAWA	11/15/2017
KEITARO HINO	11/14/2017

RECEIVING PARTY DATA

Name:	KABUSHIKI KAISHA TOSHIBA	
Street Address:	1-1, SHIBAURA 1-CHOME, MINATO-KU	
City:	TOKYO	
State/Country:	JAPAN	
Name:	TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORPORATION	
Street Address:	72-34, HORIKAWA-CHO	
City:	SAIWAI-KU, KAWASAKI	
State/Country:	JAPAN	
Postal Code:	212-8585	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15705353

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

mvukovic@oblon.com Email:

Correspondent Name: OBLON, ET AL.

Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER: 506853US

NAME OF SUBMITTER:	MARA VUKOVIC
SIGNATURE:	/Mara Vukovic/
DATE SIGNED:	01/19/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 6	
source=506853US ASSN#page1.tif	
source=506853US ASSN#page2.tif	
source=506853US ASSN#page3.tif	
source=506853US ASSN#page4.tif	
source=506853US ASSN#page5.tif	
source=506853US ASSN#page6.tif	

Invention	BATTERY
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	ed 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.
WHEREAS, 1. Kabushiki Kaisha Toshiba and 2. Toshiba Infrastructure Systems & Solutions Corporation (hereinafter referred to as "ASSIGNEES") having places of business at: 1. 1-1. Shibaura 1-chome. Minato-ku, Tokyo, Japan and 2. 72-34, Horikawa-cho, Saiwai-ku, Kawasaki 212-8585, Japan, respectively are desirous of jointly acquiring interests in 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 countries;	
acknowledged, and said ASSIGNEES, and in all foreign c other relevant Inter interest in and to a	FORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby for other good and valuable consideration, I, by these presents do sell, assign and transfer unto the full and exclusive right to the said invention in the United States and its territorial possessions ountries (including the right to claim priority under the terms of the International Convention and national Treaties and Arrangements from the aforesaid application) and the entire right, title and any and all Letters Patent which may be granted therefor in the United States and its territorial any and all foreign countries and in and to any and all divisions, reissues, continuations, mewals thereof.
any and all foreign assignees of my en their successors an	ze and request the Patent Office Officials in the United States and its territorial possessions and a countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEES as the ntire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, d assigns, to the full end of the term for which said Letters Patent may be granted, as fully and a would have been held by me had this Assignment and sale not been made.
respecting said in continuation, substall of said Letters possible to aid sai	that I will communicate to said ASSIGNEES or their representatives any facts known to me vention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, itute, renewal and reissue applications, execute all necessary assignment papers to cause any and Patent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything d ASSIGNEES, their successors and assigns, to obtain and enforce proper protection for said lited States and its territorial possessions and in any and all foreign countries.
	viedge 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 O	
Inventor: Hiroyu	ki KOBAYASHI Date: Sep 8, 2017
Signature: Il	Franke Kobanshi

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

Intention	BATTERY SWITCH CAP SUPPRESSING POWER CONSUMPTION OF SECONDARY BATTERY
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.
WHEREAS, 1. K	abushiki Kaisha Toshiba and 2. Toshiba Infrastructure Systems & Solutions Corporation
Tokyo, Japan and jointly acquiring int	d to as "ASSIGNEES") having places of business at: 1. 1-1, Shibaura 1-chome, Minato-ku, 2. 72-34, Horikawa-cho, Saiwai-ku, Kawasaki 212-8585, Japan, respectively are desirous of crests in the entire right, title and interest in and to said invention and in and to any Letters Patent therefore in the United States and its territorial possessions and in any and all foreign countries;
acknowledged, and said ASSIGNEES, t and in all foreign co other relevant Inter- interest in and to as	ORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby for other good and valuable consideration, I, by these presents do sell, assign and transfer unto the full and exclusive right to the said invention in the United States and its territorial possessions buntries (including the right to claim priority under the terms of the International Convention and national Treaties and Arrangements from the aforesaid application) and the entire right, title and my and all Letters Patent which may be granted therefor in the United States and its territorial any and all foreign countries and in and to any and all divisions, reissues, continuations, newals thereof.
any and all foreign assignees of my en their successors and	ze 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 ASSIGNEES as the tire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, I 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 inv continuation, substit all of said Letters I possible to aid said	that I will communicate to said ASSIGNEES or their representatives any facts known to me ention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, tute, renewal and reissue applications, execute all necessary assignment papers to cause any and Patent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything ASSIGNEES, their successors and assigns, to obtain and enforce proper protection for said ted States and its territorial possessions and in any and all foreign countries.
	ledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 nent of not more than five (5) years, or both.
LEGAL NAME OF	INVENTOR
Inventor: Takeshi	YASUDA Date: 14/Nov/2017
Signature: 2	一句武司

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

1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

Title of Invention	SWITCH CAP SUPPRESSING POWER CONSUMPTION OF SECONDARY BATTERY	
As the below name	d inventor, I hereby declare that:	
This declaration 🗵	This declaration \(\sum \) The attached application, or	
is directed to:	is directed to: United States application or PCT international application number	
The above-identifie	ed 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 referre Tokyo, Japan and jointly acquiring in	d to as "ASSIGNEES") having places of business at: 1. 1-1. Shibaura 1-chome, Minato-ku, 2. 72-34, Horikawa-cho, Saiwai-ku, Kawasaki 212-8585, Japan, respectively are desirous of terests in 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;	
acknowledged, and said ASSIGNEES, and in all foreign of other relevant Inter- interest in and to a	FORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby for other good and valuable consideration, I, by these presents do sell, assign and transfer unto the full and exclusive right to the said invention in the United States and its territorial possessions ountries (including the right to claim priority under the terms of the International Convention and national Treaties and Arrangements from the aforesaid application) and the entire right, title and my and all Letters Patent which may be granted therefor in the United States and its territorial any and all foreign countries and in and to any and all divisions, reissues, continuations, newals thereof.	
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 ASSIGNEES as the assignees of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.		
respecting said inv continuation, substi all of said Letters i possible to aid said	that I will communicate to said ASSIGNEES or their representatives any facts known to me vention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, tute, renewal and reissue applications, execute all necessary assignment papers to cause any and Patent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything d ASSIGNEES, their successors and assigns, to obtain and enforce proper protection for said ited States and its territorial possessions and in any and all foreign countries.	
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: Hiroki I	Inventor: Hiroki MATSUSHITA Date: 20/7 × 9 × &	
Signature: 7/	公下 34样	

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

Title of SWITCH CAP SUPPRESSI BATTERY	NG POWER CONSUMPTION OF SECONDARY
As the below named inventor, I hereby declare that:	
This declaration The attached application, or	
is directed to: United States application or PC filed on	f international application number
The above-identified application was made or authorities	zed 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, 1. Kabushiki Kaisha Toshiba and 2. T (hereinafter referred to as "ASSIGNEES") having Tokyo. Japan and 2. 72-34. Horikawa-cho, Saiwai jointly acquiring interests in the entire right, title and that may be granted therefore in the United States and	oshiba Infrastructure Systems & Solutions Corporation places of business at: 1. 1-1, Shibaura 1-chome, Minato-ku, ku, Kawasaki 212-8585, Japan, respectively are desirous of interest in and to said invention and in and to any Letters Patent its territorial possessions and in any and all foreign countries;
said ASSIGNEES, the full and exclusive right to the sand in all foreign countries (including the right to cla other relevant International Treaties and Arrangemen interest in and to any and all Letters Patent which r	n of FIVE DOLLARS (\$5.00), the receipt whereof is hereby ideration, I, by these presents do sell, assign and transfer unto aid invention in the United States and its territorial possessions in priority under the terms of the International Convention and its from the aforesaid application) and the entire right, title and may be granted therefor in the United States and its territorial and in and to any and all divisions, reissues, continuations,
any and all foreign countries to issue any and all of assignees of my entire right, title and interest in and	Officials in the United States and its territorial possessions and said Letters Patent, when granted, to said ASSIGNEES as the to the same, for the sole use and behoof of said ASSIGNEES, rm for which said Letters Patent may be granted, as fully and this Assignment and sale not been made.
Further, I agree that I will communicate to said respecting said invention, and testify in any legal continuation, substitute, renewal and reissue applicati all of said Letters Patent to be issued to said ASSIC possible to aid said ASSIGNEES, their successors a invention in the United States and its territorial posses	ASSIGNEES or their representatives any facts known to me proceeding, sign all lawful papers, execute all divisional, ons, execute all necessary assignment papers to cause any and ENEES, make all rightful oaths, and, generally do everything and assigns, to obtain and enforce proper protection for said sions and in any and all foreign countries.
I hereby acknowledge that any willful false stateme by fine or imprisonment of not more than five (5) year	nt made in this declaration is punishable under 18 U.S.C. 1001 s, or both.
LEGAL NAME OF INVENTOR	
Inventor: Tomomi KAGEYAMA Signature: 景山 意英美	Date: 20/NOV/2017

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

Title of Invention SWITCH CAP SUPPRESSING POWER CONSUMPTION OF SECONDARY BATTERY
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, 1. Kabushiki Kaisha Toshiba and 2. Toshiba Infrastructure Systems & Solutions Corporation (hereinafter referred to as "ASSIGNEES") having places of business at: 1. 1-1, Shibaura 1-chome, Minato-ku, Tokyo, Japan and 2. 72-34, Horikawa-cho, Saiwai-ku, Kawasaki 212-8585, Japan, respectively are desirous of jointly acquiring interests in 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 countries;
NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ASSIGNEES, 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.
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 ASSIGNEES as the assignees of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.
Further, I agree that I will communicate to said ASSIGNEES or their 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 ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their 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 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: Takaya OGAWA Date: Nov. 15. 2017
Signature: 1 1 1 1 3 2 10

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

Title of Invention SWITCH CAP SUPPRESSING POWER CONSUMPTION OF SECONDARY BATTERY
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
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, 1. Kabushiki Kaisha Toshiba and 2. Toshiba Infrastructure Systems & Solutions Corporation (hereinafter referred to as "ASSIGNEES") having places of business at: 1. 1-1. Shibaura 1-chome, Minato-ku, Tokyo, Japan and 2. 72-34, Horikawa-cho, Saiwai-ku, Kawasaki 212-8585, Japan, respectively are desirous of jointly acquiring interests in 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 countries;
NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ASSIGNEES, 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.
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 ASSIGNEES as the assignees of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.
Further, I agree that I will communicate to said ASSIGNEES or their 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 ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their 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 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: Keitaro HINO Date: Nov 14 th , 2017
Signature: Kiston or Idino

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

PATENT REEL: 044661 FRAME: 0495

RECORDED: 01/19/2018