### 504468233 07/21/2017

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT4514935 Stylesheet Version v1.2

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
MASASHI FUJITSUKA	06/19/2017
MASAYA KIMURA	06/19/2017
KAZUNORI TSUCHINO	06/19/2017

#### **RECEIVING PARTY DATA**

Name:	MITSUBISHI ELECTRIC CORPORATION	
Street Address:	7-3, Marunouchi 2-chome, Chiyoda-ku	
City:	Tokyo	
State/Country:	Japan	
Postal Code:	100-8310	

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15545484

#### **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: lgoodtree@oblon.com

Correspondent Name: OBLON, ET AL.

Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER: 504979US

NAME OF SUBMITTER: LAURYN GOODTREE

SIGNATURE: /lauryn goodtree/

DATE SIGNED: 07/21/2017

**Total Attachments: 3** 

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PATENT 504468233 REEL: 043297 FRAME: 0154

# 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	CONTROL DEVICE AND CONTROL METHOD FOR REFRIGERATION  CYCLE APPARATUS				
As the below name	As the below named inventor, I hereby declare that:				
This declaration	This declaration  The attached application, or				
is directed to:	United States application or PCT international application number PCT/JP2015/056122 filed on March 2, 2015				
The above-identific	ed application was made or authorized to be made by me.				
I believe that I am	he original inventor or an original joint inventor of a claimed invention in the application.				
	subishi Electric Corporation				
(hereinafter referred to as "ASSIGNEE") having places of business at: 7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008310, Japan, 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 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 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.					
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 assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) 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.					
Purther, 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 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: Masash	i FUJITSUKA Date: Jung 19, 20/7				
Signature (f.)					

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

PATENT REEL: 043297 FRAME: 0155

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

Invention	CYCLE APPARATUS
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 PCT/JP2015/056122 filed on March 2, 2015
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 1008310, Japan, is	subishi Electric Corporation I to as "ASSIGNEE") having places of business at: 7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo desirous of acquiring the entire right, title and interest in and to said invention and in and to any nay be granted therefore in the United States and its territorial possessions and in any and all foreign
acknowledged, and ASSIGNEE, the ful all foreign countrie relevant internation in and to any and 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 said I and exclusive right to the said invention in the United States and its territorial possessions and in a (including the right to claim priority under the terms of the International Convention and other al Treaties and Arrangements from the aforesaid application) and the entire right, title and interest II Letters Patent which may be granted therefor in the United States and its territorial possessions foreign countries and in and to any and all divisions, reissues, continuations, substitutions and
and all foreign coun of my entire right, successors and assi	te and request the Patent Office Officials in the United States and its territorial possessions and any attries 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 entirely have been held by me had this Assignment and sale not been made.
respecting said inv continuation, substi- all of said Letters Pa to aid said ASSIGN	that I will communicate to said ASSIGNEE or its (his) 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 atent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible IEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in 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 ment of not more than five (5) years, or both.
LEGAL NAME OF	
Inventor: Masaya	KIMURA Date: June 19, 2017
Signature:	本 # 1 / 1

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PATENT REEL: 043297 FRAME: 0156

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

Invention	CYCLE APPARATUS	TROL METHOD FOR REFRIGERATION
As the below name	d inventor, I hereby declare that:	
This declaration [	] The attached application, or	
is directed to:	United States application or PCT inter filed on March 2, 2015	national application number PCT/JP2015/056122
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 i	nventor of a claimed invention in the application.
(hereinafter referred	desirous of acquiring the entire right, ti	usiness at: 7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo tle and interest in and to said invention and in and to any stee and its territorial possessions and in any and all foreign
acknowledged, and ASSIGNEE, the ful all foreign countrie relevant Internation in and to any and a	for other good and valuable considerations of the said inventions of	FIVE DOLLARS (\$5.00), the receipt whereof is hereby in, I, by these presents do sell, assign and transfer unto said in in the United States and its territorial possessions and in under the terms of the International Convention and other aforesaid application) and the entire right, title and interest therefor in the United States and its territorial possessions d all divisions, reissues, continuations, substitutions and
and all foreign cour of my entire right, successors and assi	ntries to issue any and all of said Letters title and interest in and to the same, f	in the United States and its territorial possessions and any Patent, when granted, to said ASSIGNEE as the assignee or the sole use and behoof of said ASSIGNEE, its (his) in said Letters Patent may be granted, as fully and entirely and sale not been made.
respecting said inv continuation, substi all of said Letters Pa to aid said ASSIGN	vention, and testify in any legal procitute, renewal and reissue applications, a atent to be issued to said ASSIGNEE, ma	SNEE or its (his) representatives any facts known to me seeding, sign all lawful papers, execute all divisional, execute all necessary assignment papers to cause any and ske all rightful oaths, and, generally do everything possible obtain and enforce proper protection for said invention in all foreign countries.
	rledge that any willful false statement ma ment of not more than five (5) years, or	ade in this declaration is punishable under 18 U.S.C. 1001 both.
LEGAL NAME OF	INVENTOR	
Inventor: Kazuno		Date: June 19, 2017
Signature:	-野和東	

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PATENT REEL: 043297 FRAME: 0157

RECORDED: 07/21/2017