504494175 08/08/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4540877

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MASATO FUKUSHIMA	06/13/2017
SATOSHI KAWAGUCHI	06/13/2017
KATSUYA UENO	06/15/2017
SHIN NISHIDA	06/15/2017

RECEIVING PARTY DATA

Name:	ASAHI GLASS COMPANY, LIMITED
Street Address:	5-1, Marunouchi 1-chome, Chiyoda-ku
City:	Tokyo
State/Country:	Japan
Postal Code:	100-8405
Name:	DENSO CORPORATION
Name: Street Address:	DENSO CORPORATION 1-1, SHOWA-CHO
Street Address:	1-1, SHOWA-CHO

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15671724

CORRESPONDENCE DATA

(703)413-2220 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: (703) 413-3000 Email: adavis@oblon.com **Correspondent Name:** OBLON, ET AL. 1940 DUKE STREET Address Line 1:

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER: 504801US NAME OF SUBMITTER: **ALLISON B DAVIS**

SIGNATURE:	/ALLISON B DAVIS/
DATE SIGNED:	08/08/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 4	
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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 Invention	AIR-CONDITIONER WORKING FLUID FOR ELECTRIC VEHICLE AND AIR- CONDITIONER WORING FLUID COMPOSITION FOR ELECTRIC VEHICLE
	,
	d inventor, I hereby declare that:
This declaration X	The attached application, or
is directed to:	United States application or PCT international application number filed on
The above-identifie	ad application was made or authorized to be made by me.
I believe that I am the	he original inventor or an original joint inventor of a claimed invention in the application.
WHEREAS, 1) A	SAHI GLASS COMPANY, LIMITED and 2) DENSO CORPORATION
Tokyo 100-8405 Ja entire right, title and	d to as "ASSIGNEE") having places of business at: 1) 5-1; Marunouchi 1-chome, Chivoda-ku, apan; and 2) 1-1, Showa-cho, Kariya-shi, Aichi 448-8661. Japan, is desirous of acquiring the d interest in and to said invention and in and to any Letters Patent that may be granted therefore in and its territorial possessions and in any and all foreign countries;
acknowledged, and said ASSIGNEE, th and in all foreign co other relevant Inters interest in and to as	FORE, in consideration of the sum of FTVE 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 countries (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 assignee of my enti- (his) 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 ASSIGNEE as the re right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its d 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, substituall of said Letters I possible to aid said	that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me rention, 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 ASSIGNEE, make all rightful oaths, and, generally do everything ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said ted States and its territorial possessions and in any and all foreign countries.
by fine or imprisonn	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: Masato	FUKUSHIMA Date: June 13, 2017
Signature: <u>Mac</u>	eato Yokushima

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

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	IAIR-CONDITIONER WORKING FLUID FOR CONDITIONER WORKING FLUID COMPO	
		SITION FOR ELECTRIC VLITCLE
_	d inventor, I hereby declare that:	
·	The attached application, or	
is directed to:	United States application or PCT international app filed on	lication number
The above-identific	ad application was made or authorized to be made by	`·
	the original inventor or an original joint inventor of a	
WHEREAS, 1) A (hereinafter referred Tokyo 100-8405 Jamentire right, title and	ASAHI GLASS COMPANY, LIMITED and 2) DEN d to as "ASSIGNEE") having places of business at apan; and 2) 1-1, Showa-cho, Kariya-shi, Aichi 44 d interest in and to said invention and in and to any I and its territorial possessions and in any and all foreign	SO CORPORATION 1) 5-1, Marunouchi 1-chome, Chiyoda-ku, 18-8661 Japan, is desirous of acquiring the etters Patent that may be granted therefore in
acknowledged, and said ASSIGNEE, th and in all foreign co other relevant Intersinterest in and to a	FORE, in consideration of the sum of FIVE DOLL for other good and valuable consideration, I, by the full and exclusive right to the said invention in the countries (including the right to claim priority under to national Treaties and Arrangements from the aforestary and all Letters Patent which may be granted the any and all foreign countries and in and to any necwals thereof.	ese presents do sell, assign and transfer unto the United States and its territorial possessions the terms of the International Convention and aid application) and the entire right, title and erefor in the United States and its territorial
any and all foreign assignee of my entir (his) successors and	ze and request the Patent Office Officials in the Un countries to issue any and all of said Letters Pater ire right, title and interest in and to the same, for the d assigns, to the full end of the term for which said would have been held by me had this Assignment as	nt, when granted, to said ASSIGNEE as the sole use and behoof of said ASSIGNEE, its Letters Patent may be granted, as fully and
respecting said inv continuation, substituted of said Letters I possible to aid said	that I will communicate to said ASSIGNEE or its vention, and testify in any legal proceeding, signifute, renewal and reissue applications, execute all nu Patent to be issued to said ASSIGNEE, make all I ASSIGNEE, its (his) successors and assigns, to o ited States and its territorial possessions and in any and	n all lawful papers, execute all divisional, ecessary assignment papers to cause any and rightful oaths, and, generally do everything btain and enforce proper protection for said
by fine or imprisonn	ledge that any willful false statement made in this dement of not more than five (5) years, or both.	claration is punishable under 18 U.S.C. 1001
LEGAL NAME OF	INVENTOR	
Inventor: Satoshi I	KAWAGUCHI	Date: Jun. 13. 2017
Signature: <u>JaZa</u>	ash' Kanaguchi	

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

Title of Invention	AIR-CONDITIONER WORKING FLUID FOR ELECTRIC VEHICLE AND AIR-
TIACHTON	CONDITIONER WORKING FLUID COMPOSITION FOR ELECTRIC VEHICLE
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 referred Tokyo 100-8405 Ja entire right, title and	ASAHI GLASS COMPANY, LIMITED and 2) DENSO CORPORATION d to as "ASSIGNEE") having places of business at: 1) 5-1. Manunouchi 1-chome, Chiyoda-ku, apan; and 2) 1-1. Showa-cho, Kariya-shi, Aichi 448-8661 Japan, is desirous of acquiring the d interest in and to said invention and in and to any Letters Patent that may be granted therefore in the distortion of the company of the distortion of the company of the distortion of the company of the
acknowledged, and said ASSIGNEE, the 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 countries (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 assignee of my enti (his) 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 ASSIGNEE as the re right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its dassigns, 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, substi- all of said Letters I possible to aid said	that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me rention, 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 ASSIGNEE, make all rightful oaths, and, generally do everything ASSIGNEE, its (his) 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: Katsuya	
Signature: <u>Hall</u>	anja Clara

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

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	AIR-CONDITIONER WORKING FLUID FOR ELECTRIC VEHICLE AND AIR-CONDITIONER WORKING FLUID COMPOSITION FOR ELECTRIC VEHICLE
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 referred Tokyo 100-8405 Jacobir right, title and	ASAHI GLASS COMPANY, LIMITED and 2) DENSO CORPORATION d to as "ASSIGNEE") having places of business at: 1) 5-1, Marunouchi 1-chome, Chiyoda-ku, apan; and 2) 1-1, Showa-cho, Kariya-shi, Aichi 448-8661 Japan, is desirous of acquiring the d interest in and to said invention and in and to any Letters Patent that may be granted therefore in and its territorial possessions and in any and all foreign countries;
acknowledged, and said ASSIGNEE, the and in all foreign co 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 countries (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.
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respecting said invocationation, substiall of said Letters possible to aid said	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 Patent 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 ited 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 ment of not more than five (5) years, or both.
LEGAL NAME OF	INVENTOR
Inventor: Shin NI	SHIDA Date: June 15. 2017
Signature:	Shir Nishida

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> PATENT REEL: 043232 FRAME: 0488

RECORDED: 08/08/2017