06/14/2016 503869199

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3915848

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
SHIGENORI ONUMA	03/08/2016
NOBORU TANIGUCHI	03/08/2016
YASUSHI KANEKO	03/08/2016
TORU SUKAWA	03/12/2016
OSAMU SAKAI	03/08/2016
YUICHI MIKAMI	03/08/2016
HIROSHI SHIRAHAMA	02/23/2016
TOSHIHARU OTSUKA	02/23/2016

## **RECEIVING PARTY DATA**

Name:	PANASONIC CORPORATION	
Street Address: 1006, OAZA KADOMA, KADOMA-SHI		
City: OSAKA		
State/Country: JAPAN		
<b>Postal Code:</b> 571-8501		
Name:	TOTO LTD.	
Name: Street Address:	TOTO LTD.  1-1,NAKASHIMA 2-CHOME,KOKURAKITA-KU,KITAKYUSHU-SHI,	
Street Address:	1-1,NAKASHIMA 2-CHOME,KOKURAKITA-KU,KITAKYUSHU-SHI,	

## **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	15103812	

## **CORRESPONDENCE DATA**

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.

Email: kunou.yoshie@kk.jp.panasonic.com

PANASONIC IP MANAGEMENT CO., LTD. **Correspondent Name:** 

Address Line 1: 7F OBP PANASONIC TOWER

Address Line 2: 1-61, SHIROMI 2-CHOME, CHUO-KU

PATENT

REEL: 038901 FRAME: 0177 503869199

Address Line 4: OSA	KA, JAPAN 540-6207
ATTORNEY DOCKET NUMBER:	P670720-02
NAME OF SUBMITTER:	HIROO MAEDA
SIGNATURE:	/Hiroo MAEDA/
DATE SIGNED:	06/14/2016

## **Total Attachments: 4**

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PATENT REEL: 038901 FRAME: 0178

Panasonic Ref*: <u>P670720-02</u>	Application Serial No. 15/1038/ユ
1st Partner Name:ARCO	1st Partner Firm Ref:14P189US/WTN
US Firm Name*: MWE (* must be filled)	US Firm Ref:

## **ASSIGNMENT**

WHEREAS, the undersigned has (have) invented the invention entitled:		·	
Box 1			
Title of Invention:			
FUEL CELL SYSTEM			
1. For use when signing Declaration prior to filing	J.S. patent application (check only or	ne box below)	
(a)□ for which an application for U.S. patent has been executed	by the undersigned concurre	ently herewith, or	
(b) in for which an application for U.S. patent has been executed (if Declaration & Assignment are signed on the some day, circck (a) and make no entry in the blank: if it	on the following date(s):	nt, enter the date(s) on which you signed the Dec	, OF
(c) ■ for which an International Application has been filed as:  (for the PCT-US national entry, check only (c) and enter PCT application number in the right)	PCT Application No.	PCT/JP2015/000683	and,
2. For use when signing Declaratio	n after filing U.S. palent application		
(d)□ for which an application for U.S. patent has been filed on:	Application Filing Date		and,

WHEREAS, Panasonic Corporation of 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501, JAPAN, and TOTO LTD. of 1-1, Nakashima 2-chome, Kokurakita-ku, Kitakyushu-shi, Fukuoka 802-8601, JAPAN its/their heirs, successors, legal representatives and assigns (hereinafter designated as "Assignee(s)") is/are desirous of acquiring the entire right, title, and interest in and to said invention and in and to any Letters

Patent(s) that may be granted therefor.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged and intended to be legally bound hereby, the undersigned, by these presents, does sell, assign and transfer unto said Assignee(s) the entire and exclusive right, title and interest in and to; (i) said invention in the United States of America, its territories, dependencies and possessions (hereinafter designated as the United States) and in all countries foreign to the United States; and (ii) this patent application and any and all related patent application(s) disclosing said invention, including provisionals, non-provisionals, conversions, divisions, continuations, continuations-in-part and relisaues thereof in the United States and all countries foreign to the United States (hereinafter designated as "Related Applications"), along with all rights of priority created by this patent application under any treaty relating thereto; and (iii) any and all Letters Patent(s), including all renewals, extensions, reissues and reexamination certificates which may be granted therefore, and all rights to sue for past and future infringement thereunder, in the United States and in all countries foreign to the United States for the full term or terms thereof.

The undersigned agree(s) to execute all papers necessary in connection with this application and any and all Related Applications thereof, all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements, all papers necessary in connection with any interference which may be declared concerning this application or any and all Related Applications thereof and to cooperate with the Assignee(s) in every way possible in obtaining and producing evidence and proceeding with such interference, and for any and all litigations regarding, or for the purpose of protecting the right, title and interest in and to said invention, this application and any and all Related Applications or Letters Patent(s) therefore, and to testify in any legal proceeding relating thereto and in support thereof, for the benefit of Assignee(s), and also to execute separate assignments in connection

with such applications as the Assignee(s) may deem necessary or expedient.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States and any foreign patent(s) to the Assignee(s) and to vest all rights hereby conveyed to the Assignee(s) as fully and entirely as the same would have been held by the undersigned if this Assignment had not been made.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents, and officials of all foreign countries, whose duty is to issue patents, to issue any and all Letters Patent(s) resulting from said application or any and all Related Applications thereof to said Assignee(s) and hereby covenants that the undersigned has (nave) full right to convey the entire interest herein assigned, and that the undersigned has

(have) not executed, and will not execute, any assignment, sale, agreement or encumbrances in conflict herewith.

The undersigned hereby does sell, assign and transfer unto said Assignee(s) the full and exclusive authority for revoking power of attorney(s) executed by the undersigned in connection with this application and for appointing a new power of attorney in place thereof. The undersigned hereby grant(s) the Assignee(s) and the appointed U.S. patent attorneys and agents the power to insert on this assignment any further identification which may be necessary or desirable in order to compty with the rules of the U.S. Patent Office for recordation of this

The undersigned hereby agree(s) that the above obligations shall apply to the undersigned both individually and collectively.

The undersigned hereby agree(s) that this Assignment shall be construed in accordance with the law of the appropriate jurisdiction within the United States.

IN WITNESS WHEREOF, executed by the undersigned on the date(s) following the undersigned name(s) and signature(s).

Box2	(Each Inventor, please Sign and Date I	pelow)	
	(e) First Name, Last Name	(f) Signature	(g) Date signed
(1)	Shigenori ONUMA	Shigenori Onuma	March 8, 2016
(2)	Noboru TANIGUCHI	noboru Taniguchi	Month, Date, Year  Menche 8, 2016  Month, Date, Year
(3)	Yasushi KANEKO	Gassohi Kanekee	March. 8.2016
(4)	Toru SUKAWA	Tom Sukawa	March 12, 20/6

■Check if additional paper(s) is/are attached. Total of \_\_\_\_\_ pages are submitted.

# **ASSIGNMENT (Cont.)**

Additional Inventors:	15/1038/2
	<u></u>

Box2 (	Continued)		10/1036/2
	(e) First Name, Last Name	(f) Signature	(g) Date signed
(5)	Osamu SAKAI	Osemu Sakai. Judhi Mikami	Month, Date, Year March, 8, 2016
(6)	Yuichi MIKAMI	Jush Mikami	March 8 2016  Month, Date, Year  Marches 8 - 2016  Month, Date, Year
(7)	Hiroshi SH!RAHAMA		Month, Date, Year
(8)	Toshiharu OTSUKA		Month, Dale, Year
(9)			Month, Dale, Year
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(20)			Month, Date, Year
(21)			Month, Date, Year
(22)			

<sup>■</sup>Check if additional paper(s) is/are attached. Total of 2 pages are submitted.

	sonic Ref*: <u>P670720-02</u>	<del></del>	Application Se		103812
	artner Name:ARCO				IP189US/WTN
US Fi	irm Name*: <u>MWE</u>				
		ASSIC			
WHEF	REAS, the undersigned has (have) invented		NMENT		
BOX 1		a the invention entitled:			
ı	of Invention:				
	FUEL CELL SYSTEM				
(2) 🗆			J.S. patent application (check only		
	for which an application for U.S. pater			rrently herewith, o	)r
(D)∐ T	or which an application for U.S. paten oration & Assignment are signed on the same day, check (a) a	t has been executed nd make no entry in the blank; if the	on the following date(s):	nment onter the datafal on wi	, or
(C)■	for which an International Application e PCT-US national entry; check only (c) and enter PCT applic	has been filed as:	PCT Application No.		2015/000683 and,
<u> </u>	2. For us	se when signing Declaration	n after filing U.S. patent application	1	
(d)□ f	or which an application for U.S. paten	t has been filed on:	Application Filing Date		and,
designing Patenting Notes as the elegatitle and elegating Patenting Tall paper for Professional Patenting Tall paper for Professional Patenting Tall patenting the und Tall issue parand here (have) rattorney The und further idocume		e consideration, the recise presents, does sell, a Curited States of Americ to the United States; and the United States; and the United States; and the United States; and the United States (by treaty relating thereto, and the United States (consideration of the United States) and the United States for the full the pers necessary in connection may be necessary in connection may be necessary preements, all papers in Applications thereof are interference, and for a dication and any and all nereof, for the benefit of the employment of the united States (consideration of the united States) resulting from said application and transfer unto said the appointed U.S., desirable in order to considerable in order to conside	interineirs, successors, legant, title, and interest in and to eipt and sufficiency of which assign and transfer unto said as, its territories, dependencied (ii) this patent application an enversions, divisions, continual hereinafter designated as "Reis and (iii) any and all Letters P and all rights to sue for past earn or terms thereof, eaction with this application and in connection with the Assign and all litigations or Letter Assignee (s), and also to exceed the total part of the entire interest herein ent or encumbrances in conflict as plication or any and all Relate vey the entire interest herein ent or encumbrances in conflict Assignee(s) the full and entire the entire or encumbrances in conflict Assignee(s) the full and entire and for appointing a new popatent attorneys and agents to comply with the rules of the learners.	I representatives and a said invention and are hereby acknowle Assignee(s) the entiles and possessions (the day and all related applications"), atent(s), including all and future infringem if any and all Related provisions of the integration of the integration of the integration of the purpose is Patent(s) therefore acute separate assigned and that the therewith.	ad assigns (hereinafter in and to any Letters adged and intended to a life and exclusive right, hereinafter designated dipatent application(s) s-in-part and reissues along with all rights of a renewals, extensions, hent thereunder, in the ad Applications thereof, ernational Convention hich may be declared by possible in obtaining of protecting the right, e, and to testify in any humants in connection states and any foreign and have been held by the undersigned has or revoking power of lace thereof.
11	ne undersigned hereby agree(s) that the al ne undersigned hereby agree(s) that this A ed States.	Assignment shall be cor	pply to the undersigned both in strued in accordance with the	icividually and colle- law of the appropri	ctively. iate jurisdiction within
IN	WITNESS WHEREOF, executed by the u		(s) following the undersigned	name(s) and signatu	ıre(s).
Box2	(Each Inventor, please Sign and Date but (e) First Name, Last Name	pelow)	(f) Signature		a) Data signad
(1)	Shigenori ONUMA		(·) Orginataro		g) Date signed Month, Date, Year
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(2)	Noboru TANIGUCHI				Month, Date, Year
(3)	Yasushi KANEKO				Month, Date, Year
ı					11-11-12-11

■Check if additional paper(s) is/are attached. Total of 2 pages are submitted.

Toru SUKAWA

(4)

## **ASSIGNMENT (Cont.)**

## Additional Inventors:

15/1038/2

(Continued)		13//038/-
(e) First Name, Last Name	(f) Signature	(g) Date signed
Osamu SAKAI		Month, Date, Year
Yuichi MIKAMI		Month, Dale, Year
Hiroshi SHIRAHAMA	Hiroshi Shirahama	Month, Date, Year Feb. 23, 2016
Toshiharu OTSUKA	Joshiheru Otenka	Month, Date, Year Feb. 23, 20/6
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	(e) First Name, Last Name Osamu SAKAI Yuichi MIKAMI Hiroshi SHIRAHAMA	(e) First Name, Last Name  Osamu SAKAI  Yuichi MIKAMI  Hiroshi SHIRAHAMA  Liroshi Lfirafana

■Check if additional paper(s) is/are attached. Total of 2 pages are submitted.

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PATENT REEL: 038901 FRAME: 0182