

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3801951

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| SAYAKA KATO | 11/22/2015 |
| HIROSHI YANO | 11/26/2015 |
| AYUMI SAKAI | 11/25/2015 |
| RECEIVING PARTY DATA | |
| Name: | PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO., LTD. |
| Street Address: | 1-61, SHIROMI 2-CHOME, CHUO-KU, OSAKA-SHI |
| City: | OSAKA |
| State/Country: | JAPAN |
| Postal Code: | 540-6207 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14912513 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <i>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.</i> | |
| Email: | kunou.yoshie@kk.jp.panasonic.com |
| Correspondent Name: | PANASONIC IP MANAGEMENT CO., LTD. |
| Address Line 1: | 7F OBP PANASONIC TOWER |
| Address Line 2: | 1-61, SHIROMI 2-CHOME, CHUO-KU |
| Address Line 4: | OSAKA, JAPAN 540-6207 |
| ATTORNEY DOCKET NUMBER: | P664947-01 |
| NAME OF SUBMITTER: | SHIGERU HONOKI |
| SIGNATURE: | /Shigeru HONOKI/ |
| DATE SIGNED: | 03/28/2016 |
| Total Attachments: 3 | |
| source=Assignment 14912513(P664947-01 G&B)#page1.tif | |
| source=Assignment 14912513(P664947-01 G&B)#page2.tif | |
| source=Assignment 14912513(P664947-01 G&B)#page3.tif | |

Panasonic Ref*: P664947-01Application Serial No. 14/9125131st Partner Name: MIYOSHI & MIYOSHI PATENT ATTORNEYS1st Partner Firm Ref: JPANA-124-PCT-USUS Firm Name*: GREENBLUM & BERNSTEIN, P.L.C.

US Firm Ref: _____

(* must be filled)

ASSIGNMENT

WHEREAS, the undersigned has (have) invented the invention entitled:

Box 1

Title of Invention:

HYDROPONIC CULTIVATION APPARATUS

1. For use when signing Declaration prior to filing U.S. patent application (check only one box below)

(a) ☐ for which an application for U.S. patent has been executed by the undersigned concurrently herewith, or(b) ☐ for which an application for U.S. patent has been executed on the following date(s): _____, or
(If Declaration & Assignment are signed on the same day, check (a) and make no entry in the blank; if the Declaration was signed before this Assignment, enter the date(s) on which you signed the Declaration)(c) ☒ for which an International Application has been filed as: PCT Application No. PCT/JP2014/003001 and,
(for the PCT-US national entry, check only (c) and enter PCT application number in the right)

2. For use when signing Declaration after filing U.S. patent application

(d) ☐ for which an application for U.S. patent has been filed on: Application Filing Date _____ and,WHEREAS, Panasonic Intellectual Property Management Co., Ltd. of 1-61, Shiromi 2-chome, Chuo-ku, Osaka-shi, Osaka 540-6207, Japan, and

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 reissues 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 (have) 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.

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| Box2 (Each Inventor, please Sign and Date below) | | | |
|--|---------------------------|--------------------|--------------------------------------|
| | (e) First Name, Last Name | (f) Signature | (g) Date signed Month, Date, Year |
| (1) | Sayaka KATO | <i>Sayaka Kato</i> | Nov. 22, 2015 |
| (2) | Hiroshi YANO | | Month, Date, Year |
| (3) | Ayumi SAKAI | | Month, Date, Year |
| (4) | | | Month, Date, Year |

☐ Check if additional paper(s) is/are attached. Total of 1 pages are submitted.

Panasonic Ref*: P664947-01Application Serial No. 14/9125131st Partner Name: MIYOSHI & MIYOSHI PATENT ATTORNEYS1st Partner Firm Ref: JPANA-124-PCT-USUS Firm Name*: GREENBLUM & BERNSTEIN, P.L.C.

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|--|---------------------------|---------------|--------------------------------------|
| | (e) First Name, Last Name | (f) Signature | (g) Date signed Month, Date, Year |
| (1) | Sayaka KATO | | |
| (2) | Hiroshi YANO | Hiroshi Yano | Nov. 26, 2015 |
| (3) | Ayumi SAKAI | | |
| (4) | | | |

☐ Check if additional paper(s) is/are attached. Total of 1 pages are submitted.

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| (3) | Ayumi SAKAI | <i>Ayumi Sakai</i> | Month, Date, Year Nov. 25, 2015 |
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