#### PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE:      | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

#### **CONVEYING PARTY DATA**

| Name                | Execution Date |
|---------------------|----------------|
| HIDEAKI NISHIMURA   | 06/25/2018     |
| TOSHIHIRO YOSHINUMA | 06/28/2018     |
| WATARU SAKAMOTO     | 06/22/2018     |
| SHO SAWAHATA        | 06/25/2018     |
| KEN ONODERA         | 06/25/2018     |

#### **RECEIVING PARTY DATA**

| Name:           | RICOH COMPANY, LTD.              |
|-----------------|----------------------------------|
| Street Address: | 3-6, NAKAMAGOME 1-CHOME, OHTA-KU |
| City:           | TOKYO                            |
| State/Country:  | JAPAN                            |
| Postal Code:    | 143-8555                         |

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

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 16040007 |

#### **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: adavis@oblon.com
Correspondent Name: OBLON, ET AL.
Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

| ATTORNEY DOCKET NUMBER: | 514839US   |
|-------------------------|--|
| NAME OF SUBMITTER:      | ALLISON B DAVIS  |
| SIGNATURE:              | /ALLISON B DAVIS/  |
| DATE SIGNED:            | 07/19/2018   |
|                         | This document serves as an Oath/Declaration (37 CFR 1.63). |
|                         | •  |

**Total Attachments: 5** 

PATENT REEL: 046403 FRAME: 0144

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| Title of<br>Invention   | DRYING           | DEVICE,          | LIQUID           | DISCHARG          | E APPA        | ARATUS,      | AND |
|---|------------------|------------------|------------------|-------------------|---------------|--------------|-----|
| Invention   | TREATME          | NT LIQUID        | APPLICATO        | OR                |               |              |     |
| As the below named i  | nventor, I hereb | y declare that:  |                  |                   |               |              |     |
| This declaration 🗵  | The attached a   | pplication, or   |                  |                   |               |              |     |
| is directed to:   | United States a  | pplication or P  | CT internation   | al application nu | mber          |              |     |
|   | filed on         |                  |                  | •                 |               |              |     |
| The above-identified a  | application was  | made or author   | rized to be mad  | e by me.          |               |              |     |
| I believe that I am the   | original invento | or or an origina | I joint inventor | of a claimed inv  | ention in the | application. |     |
| WHEREAS, Ricol  | n Company, Ltd   | •                |                  |                   |               |              |     |
| (hereinafter referred to as "ASSIGNEE") having places of business at: 3-6, Nakamagome 1-chome, Ohta-ku, Tokyo 143-8555, 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 sun 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.   |                  |                  |                  |                   |               |              |     |
| Further, 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 I   | VENTOR           |                  |                  |                   |               |              |     |
| Inventor: HIDEAL  | KI NISHIMUR.     | ٨                |                  | Date:             | June          | 25,2018      | 8   |
| Signature: Hide   | aki Nish         | imura            |                  |                   |               |              |     |

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

| Title of<br>Invention   | DRYING DEVICE, LIQUID DISCHARGE APPARATUS, AND  |  |  |
|---|---|--|--|
|   | TREATMENT LIQUID APPLICATOR   |  |  |
| As the below named i  | 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, Ricol  | h Company, Ltd.   |  |  |
| 143-8555, Japan, is o   | o as "ASSIGNEE") having places of business at: 3-6, Nakamagome 1-chome, Ohta-ku, Tokyo lesirous of acquiring the entire right, title and interest in and to said invention and in and to any y be granted therefore in the United States and its territorial possessions and in any and all foreign |  |  |
| NOW, THEREFORE, in consideration of the sun 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.   |   |  |  |
| Further, 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 I   | NVENTOR 25 2016   |  |  |
|   | HIRO YOSHINUMA Date: June, 28, 2018   |  |  |
| Signature: Joshy  | hira Yashinuma  |  |  |

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

| Invention   | DRYING DEVICE, LIQUID DISCHARGE APPARATUS, AND   |  |  |
|---|--|--|--|
|   | TREATMENT LIQUID APPLICATOR  |  |  |
| As the below named i  | nventor, 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 a  | 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. |  |  |
|   | Company, Ltd.  |  |  |
| (hereinafter referred to as "ASSIGNEE") having places of business at: 3-6. Nakamagome 1-chome. Ohta-ku. Tokyo 143-8555, 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 sun of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, 1, 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.   |  |  |  |
| Further, 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.  |  |  |  |
| Thereby 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 I   |  |  |  |
| Inventor: WATAR   | USAKAMOTO Date: Jame 22,2018   |  |  |
| Signature: White  | ni Serkaminta  |  |  |

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

| Title of<br>Invention   | DRYING DEVICE, LIQUID DISCHARGE APPARATUS, AND TREATMENT LIQUID APPLICATOR  |  |  |
|---|---|--|--|
| As the below named i  | nventor, I hereby declare that:   |  |  |
| This declaration  | The attached application, or  |  |  |
| is directed to:   | United States application or PCT international application number   |  |  |
| is directed to.   | filed on .  |  |  |
| The above-identified:   | application was made or authorized to be made by me.  |  |  |
|   | original inventor or an original joint inventor of a claimed invention in the application.  |  |  |
|   |   |  |  |
| (hereinafter referred to 143-8555, Japan, is o  | o as "ASSIGNEE") having places of business at: 3-6, Nakamagome 1-chome, Ohta-ku, Tokyo lesirous of acquiring the entire right, title and interest in and to said invention and in and to any y be granted therefore in the United States and its territorial possessions and in any and all foreign |  |  |
| NOW, THEREFORE, in consideration of the sun 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. |   |  |  |
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| 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 II  | NVENTOR   |  |  |
| Inventor: SHO SA  | WAHATA Date: June 25, 20/8  |  |  |
| Signature:  | Sawahata  |  |  |

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

| Title of<br>Invention   | DRYING DEVICE, LIQUID DISCHARGE APPARATUS, AND TREATMENT LIQUID APPLICATOR  |  |  |
|---|---|--|--|
| A - 41 - 1-1 1 2  |   |  |  |
| This declaration  | nventor, I hereby declare that: The attached application, or  |  |  |
|   |   |  |  |
| is directed to:   | United States application or PCT international application number   |  |  |
| mi 1 21 20 1  | filed on  |  |  |
|   | 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.  |  |  |
|   | h Company, Ltd.   |  |  |
| (hereinafter referred to as "ASSIGNEE") having places of business at: 3-6, Nakamagome 1-chome, Ohta-ku, Tokyo 143-8555, 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;   |   |  |  |
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|   | edge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 ent of not more than five (5) years, or both. |  |  |
| LEGAL NAME OF I   |   |  |  |
| Inventor: KEN O   | NODERA Date: Jun 28, 2018   |  |  |
| Signature:  | m Omodera   |  |  |

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> PATENT REEL: 046403 FRAME: 0150

**RECORDED: 07/19/2018**