

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
CONVEYING PARTY DATA																	
<table><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>TOMOHIKO KOHDA</td><td>06/28/2017</td></tr><tr><td>TAKAHIRO YOSHIDA</td><td>06/27/2017</td></tr><tr><td>SHIOMI ANDOU</td><td>06/28/2017</td></tr><tr><td>TAKAYUKI NAKAI</td><td>06/28/2017</td></tr><tr><td>KANSI ABE</td><td>06/28/2017</td></tr><tr><td>TAKESHI SHIMIZU</td><td>06/28/2017</td></tr><tr><td>RYO KASAHARA</td><td>06/28/2017</td></tr></tbody></table>	Name	Execution Date	TOMOHIKO KOHDA	06/28/2017	TAKAHIRO YOSHIDA	06/27/2017	SHIOMI ANDOU	06/28/2017	TAKAYUKI NAKAI	06/28/2017	KANSI ABE	06/28/2017	TAKESHI SHIMIZU	06/28/2017	RYO KASAHARA	06/28/2017	
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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																	
<table><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>17660705</td></tr></tbody></table>	Property Type	Number	Application Number:	17660705													
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CORRESPONDENCE DATA																	
Fax Number:	(202)797-8188																
<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>																	
Phone:	202 797 4181																
Email:	IPUSA@IPUSAPAT.COM, ips@itohpat.co.jp																
Correspondent Name:	IPUSA, P.L.L.C																
Address Line 1:	1054 31ST STREET, N.W.																
Address Line 2:	SUITE 400																
Address Line 4:	WASHINGTON, D.C. 20007																
ATTORNEY DOCKET NUMBER:	17R-068C5																
NAME OF SUBMITTER:	YOSHIE JONES																
SIGNATURE:	/Yoshie Jones/																
DATE SIGNED:	04/26/2022																

Total Attachments: 3

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ASSIGNMENT

THIS ASSIGNMENT, by (1) Tomohiko KOHDA, (2) Takahiro YOSHIDA, (3) Shiomi ANDOU, (4) Takayuki NAKAI, (5) Kanshi ABE, (6) Takeshi SHIMIZU, and (7) Ryo KASAHARA, (hereinafter referred to as "Assignors"), residing at (1) Ibaraki, Japan, (2) Ibaraki, Japan, (3) Kanagawa, Japan, (4) Kanagawa, Japan, (5) Ibaraki, Japan, (6) Kanagawa, Japan, and (7) Kanagawa, Japan, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in LIQUID DISCHARGING HEAD, LIQUID DISCHARGING UNIT, AND DEVICE FOR DISCHARGING LIQUID,

(Application No. _____, filed _____)

set forth in a patent application for Letters Patent of the United States, either previously filed or executed concurrently herewith; and

WHEREAS, Ricoh Company, Ltd. (hereinafter referred to as "Assignee"), having offices 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 inventions and said application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefor and thereon;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations, continued prosecutions, and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and Assignment not been made;

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles, and or interests that have arisen to Assignee under the law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and application for Letters Patent above-mentioned, and that the same are

unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives, and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns shall advise; that any proceeding in connection with said inventions, or said patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation, continued prosecutions, or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable;

AND Assignors hereby request that the Director of the United States Patent and Trademark Office issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the said Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns;

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document: All practitioners associated with the Customer Number 77464.

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

June 28, 2017
Date

Tomohiko Kohda
Tomohiko KOHDA

June 27, 2017
Date

Takahiro Yoshida
Takahiro YOSHIDA

June 28, 2017
Date

Shiomi Andou
Shiomi ANDOU

June 28, 2017
Date

Takayuki Nakai
Takayuki NAKAI

June 28, 2017
Date

Kanshi ABE
Kanshi ABE

June 28, 2017
Date

Takeshi SHIMIZU
Takeshi SHIMIZU

June 28, 2017
Date

Ryo KASAHARA
Ryo KASAHARA