

## PATENT ASSIGNMENT COVER SHEET

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<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KABUSHIKI KAISHA TOSHIBA	04/26/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TOSHIBA TEC KABUSHIKI KAISHA
<b>Street Address:</b>	1-11-1, OSAKI
<b>City:</b>	SHINAGAWA-KU, TOKYO
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	141-8562
<b>PROPERTY NUMBERS Total: 4</b>	
<b>Property Type</b>	<b>Number</b>
Patent Number:	8662624
Patent Number:	8042914
Patent Number:	7445307
Patent Number:	8974046
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<b>ATTORNEY DOCKET NUMBER:</b>	KKT TO TTEC
<b>NAME OF SUBMITTER:</b>	GREGORY TUROCY
<b>SIGNATURE:</b>	/Greg Turocy/
<b>DATE SIGNED:</b>	05/22/2019
<b>Total Attachments: 2</b>	
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## ASSIGNMENT

For good and valuable consideration received of the hereinafter named assignee, receipt of which is hereby acknowledged, the undersigned

KABUSHIKI KAISHA TOSHIBA

1-1, Shibaura 1-chome  
Minato- ku, Tokyo  
105-8001 JAPAN

hereby sells and assigns to TOSHIBA TEC KABUSHIKI KAISHA, a Japanese corporation, having a place of business at 1-11-1, Osaki, Shinagawa-ku, Tokyo 141-8562 Japan its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries, in and to the following inventions:

Title	Patent No.	Serial No.	Issue Date
Foreign Object Detection Device, Foreign Object Detection Method, Droplet Discharging Device, And Droplet Discharging Method	US8,662,624	13/315,803	March 4, 2014
Jetting Error Detector, Droplet Jetting Applicator And Display Device Manufacturing Method	US8,042,914	12/233,992	October 25, 2011
Droplet Jetting Apparatus And Display Device Manufacturing Method	US7,445,307	11/184,915	November 4, 2008
Liquid Circulation Unit, Liquid Circulation Apparatus And Method Of Manufacturing Coated Body	US8,974,046	12/721,024	March 10, 2015

for which a United States Letters Patent has been filed or was executed by the undersigned on the date below and is being filed concurrently herewith, application for United States Letters Patent, any and all other applications for Letters Patent on said inventions in countries foreign to the United States, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said applications and said Letters Patent; said assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said assignee or otherwise as said assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments being hereby authorized to issue or transfer

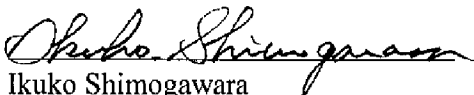
all said Letters Patent to said assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right heretofore given, and that the undersigned will do all acts reasonably serving to assure that said inventions, patent applications and Letters Patent shall be held and enjoyed by said assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, and lawful affidavits in form and substance which may be requested by said assignee, to furnish said assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said inventions, and to testify in any proceedings relating to said inventions, patent applications and Letters Patent.

The undersigned hereby appoint, request, and grant power to the following law firm to insert on this Assignment further identification which may be necessary or desirable in order to comply with the Rules of the U.S. Patent and Trademark Office for recordation of this document, for example, the U.S. Serial No. and filing date.

Amin, Turocy & Watson, LLP, 200 Park Avenue, Suite 300, Beachwood, Ohio 44122.

Signed:

Date:



Ikuko Shimogawara

General Manager

Intellectual Property Division

KABUSHIKI KAISHA TOSHIBA

