503410443 07/28/2015 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3457078

CONVEYING PARTY DATA Name Execution E TAKESHI IKE 04/22/2015 RECEIVING PARTY DATA 04/22/2015 Name: Canon Kabushiki Kaisha Street Address: 30-2, Shimomaruko 3-Chome, Ohta-ku City: Tokyo State/Country: JAPAN Postal Code: 146-8501 PROPERTY NUMBERS Total: 1 Property Type Number Application Number: 14695318 CORRESPONDENCE DATA Fax Number: (949)932-3577 Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sen using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail. Phone: +81-3-5732-8698 Email: prj-epas@list.canon.co.jp Correspondent Name: CANON KABUSHIKI KAISHA Address Line 1: 30-2, SHIMOMARUKO 3-CHOME, OHTA-KU Address Line 4: TOKYO, JAPAN 146-8501 Attronometer Kouse Tano/	SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT	
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10144147US01

ASSIGNMENT

FOR VALUE RECEIVED, I/WE

Takeshi Ike

hereby sell, assign, transfer and convey unto CANON KABUSHIKI KAISHA

a corporation of Japan

having a place of business at 30-2, Shinomaruko 3-chone, Ohta-ku, Tokyo, Japan

its successors, assigns and legal representatives (hereinafter called the "Assignee"), the entire right, title, and interest, for all countries, in and to cortain inventions relating to

BASE, LIQUID DISCHARGE HEAD, PRINTING APPARATUS, AND METHOD FOR DETERMINING LIQUID DISCHARGE STATUS

and described in an application for Letters Patent of the United States executed by me/us, and

filed on as United States Application No.

as PCT International Application No.

and in and to said application, and all divisions, renewals and continuations thereof, and all letters Patent of the United States which may be granted thereon, and all reissues and extensions thereof, and all applications for Letters Patent or other grants of protection of proprietary rights including, but not limited to, inventor's certificate, utility model, utility certificate, patent of importation, registration of patent and industrial design registration which may be

68

filed, and which may be granted, upon said inventions in any countries or regions foreign to the United States, and all reissues, renewals and extensions thereof; and I/we hereby authorize and request the Commissioner for Patents and Trademarks of the United States, and all officials of countries or regions foreign to the United States having authority to do so, to issue all such letters Patent or other grants of protection upon said inventions to the Assignee or to such noninees as it may designate.

AND L/we authorize and empower the said Assignce or nominees to invoke and claim for any application for such Letters Patent or other grants of protection for said inventions filed by it or them, the benefit of the right of priority provided by the international Convention for the Protection of Industrial Property, as amended, or by a convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me/us.

AND I/we hereby consent that a copy of this assignment shall be deemed a full and formal equivalent of any assignment, consent to file or like document which may be required in any country or region for any purpose and

more particularly in proof of the right of the said Assignee or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property. as amended, or by any convention which may benceforth be substituted for it.

Page 1 of 2

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AND I/we hereby covenant that I/we have the full right to convey the entire right, title and interest herein assigned and that I/we have not executed and will not execute any agreement in conflict herewith.

AND l/we hereby covenant and agree that I/we will communicate to said Assignee or nominees all facts known to me/us pertaining to said inventions, and testify in all legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and declarations and in general perform all lawful acts necessary or proper to aid said Assignee or nominees in obtaining, maintaining, and enforcing all lawful patent or other grants of protection of said inventions in any and all countries and regions.

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Page 2 of 2

RECORDED: 07/28/2015

PATENT REEL: 036188 FRAME: 0706