


PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DAISUKE KATAGIRI	08/08/2016
TAKASHI MORI	08/08/2016
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:	15238798
CORRESPONDENCE DATA	
Fax Number:	(212)391-0525
<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:	2122780400
Email:	pteng@cooperdunham.com
Correspondent Name:	PAUL TENG
Address Line 1:	30 ROCKEFELLER PLAZA
Address Line 4:	NEW YORK, NEW YORK 10112
ATTORNEY DOCKET NUMBER:	2271/88871
NAME OF SUBMITTER:	PAUL TENG
SIGNATURE:	/PAUL TENG/
DATE SIGNED:	08/17/2016
Total Attachments: 3	
source=88871--AssignmentRecordationRequest#page1.tif	
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FORM PTO-1595 (Substitute)	RECORDATION FORM COVER SHEET	U.S. DEPARTMENT OF COMMERCE
(Rev. 8-96)	PATENTS ONLY	Patent and Trademark Office
To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.		
1. Name of conveying party(ies): Daisuke KATAGIRI; Takashi MORI Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Name: <u>RICOH COMPANY, LTD.</u> Internal Address: _____ Street Address: <u>3-6, Nakamagome 1-chome,</u> <u>Ohta-ku</u> City/State/Zip: <u>Tokyo, 143-8555, JAPAN</u> _____ Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of Conveyance: <input type="checkbox"/> Security Assignment <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date(s): <u>August 8, 2016; August 8, 2016;</u>	4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date(s) of the application is (are): _____ <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> A. Patent Application No.(s) <u>15/238798</u> _____ _____ </div> <div style="width: 45%;"> B. Patent No.(s) _____ _____ _____ </div> </div> Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Paul Teng</u> Internal Address: _____ Street Address: <u>COOPER & DUNHAM LLP</u> <u>30 Rockefeller Plaza, 20th Floor</u> City/State/Zip: <u>New York, New York 10112</u>	6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR §3.41):\$ <u>0.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: <u>03-3125</u>	
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9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.		
<u>Paul Teng, Reg. No. 40,837</u> Name of Person Signing	 Signature	<u>2016 AUGUST 17</u> Date
Total Number of pages including cover sheet, attachments and document: <u>3</u>		
OMB No. 0651-0011 (exp. 4/94)		
Mail documents to be recorded with required cover sheet information to: Mail Stop Assignment Recordation Services Director of the United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450		

ASSIGNMENT

In consideration of One Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, I/we, the undersigned,

Hereby sell, assign and transfer to RICOH COMPANY, LTD., *a*
corporation of Japan, having a place of business at 3-6, Nakamagome 1-Chome,
Ohta-ku, Tokyo 143-8555, Japan, *its successors, assigns and legal*
representatives, the entire right, title and interest for all countries, in and to any and all
inventions which are disclosed and claimed, and as possessed by the undersigned, any and all
inventions which are disclosed but not claimed, in the application for United States Patent,
which was executed by the undersigned concurrently herewith and is entitled

CHANNEL SUBSTRATE, METHOD OF PRODUCING CHANNEL SUBSTRATE,
LIQUID DISCHARGE HEAD, INK CARTRIDGE, AND LIQUID DISCHARGE
APPARATUS

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and
all other applications for U.S. Letters Patent or other related property rights in any and all
foreign countries which have been or shall be filed on any of said inventions disclosed in said
application; and in and to all original and reissued patents or related foreign documents which
have been or shall be issued on said inventions;

Authorize and request the Commissioner of Patents of the United States to issue to said
Assignee, the corporation above named, its successors, assigns and legal representatives, in
accordance with this assignment, any and all United States Letters Patent on said inventions
or any of them disclosed in said application;

Agree that said Assignee may apply for and receive foreign Letters Patent or rights of
any other kind for said inventions, or any of them; and may claim, in applications for said
foreign Letters Patent or other rights, the priority of the aforesaid United States patent
application under the provisions of the International Convention of 1883 and later
modifications thereof, under the Patent Cooperation Treaty, under the European Patent
Convention or under any other available international agreement; and that, when requested,
without charge to, but at the expense of, said Assignee, its successors, assigns and legal
representatives, to carry out in good faith the intent and purpose of this assignment, the
undersigned or the undersigned's executors or administrators will, for the United States and
all foreign countries, execute all divisional, continuing, substitute, renewal, reissue, and all

other patent applications or other documents on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents or related foreign rights and all patents on said inventions, in said Assignee, its successors, assigns and legal representatives; and

COVENANT *with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.*

Daisuke Katagiri [L.S.]
DAISUKE KATAGIRI

Date: *August 8, 2016*

Witness: _____ [signature]
_____ [print name]
_____ [address]

Takashi Mori [L.S.]
TAKASHI MORI

Date: *August 8, 2016*

Witness: _____ [signature]
_____ [print name]
_____ [address]
