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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JUNJI NAKAI	09/11/2013
HIROYOSHI MATSUMOTO	09/10/2013
MASAKAZU YOSHIDA	09/13/2013
SOUICHI NAKAZAWA	09/12/2013
TATSURO WATANABE	09/10/2013
HIROYUKI HIRATSUKA	09/10/2013
KOJI NAGAI	09/10/2013

RECEIVING PARTY DATA

Name:	RICOH COMPANY, LIMITED
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:	15838063	

CORRESPONDENCE DATA

Fax Number:

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: 303-786-7687 Email: mail@dbflaw.com

Correspondent Name: DUFT BORNSEN & FETTIG, LLP

Address Line 1: 1526 SPRUCE STREET

Address Line 2: SUITE 302

Address Line 4: BOULDER, COLORADO 80302

ATTORNEY DOCKET NUMBER:	FN201705498
NAME OF SUBMITTER:	DREW SMITH
SIGNATURE:	/Drew Smith/
DATE SIGNED:	12/11/2017

Total Attachments: 7 source=RCL-0006C3-ASSIGNMENT#page1.tif source=RCL-0006C3-ASSIGNMENT#page2.tif source=RCL-0006C3-ASSIGNMENT#page3.tif source=RCL-0006C3-ASSIGNMENT#page4.tif source=RCL-0006C3-ASSIGNMENT#page5.tif source=RCL-0006C3-ASSIGNMENT#page6.tif source=RCL-0006C3-ASSIGNMENT#page7.tif

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S))

RICOH COMPANY, LIMITED	
3-6, Nakamagome 1-chome, Ohta-ku, T	okyo 143-8555 Japan
(hereinafter, "ASSIGNEE"), the receipt of which is hereby ackr ASSIGNEE the entire and exclusive right, title and interest to the (Title of Invention) PRINTING APPARATUS AND PRINTED MA	
relating to International Patent Application PCT/IP / executed on even date herewith or, if not so executed, was:	and/or for which application for Letters Patent of the United States was
(n) executed on;	(Insert date of execution of application, if not concurrent)
(b) filed on, Serial No,	Assignee's attorney is hereby authorized to insert in (b) the specified data, when known.
and to said application and all Letters Patent(s) of the United St	ates granted on said application and appropriation division renoval

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

1) Ju	rii Nakai	Junji NAKAI	September 11, 2013
2)	(Signature)	(Type Name) Hiroyoshi MATSUMOTO	(Date)
~/	(Signature)	(Type Name)	(Date)
3)		Masakazu YOSHIDA	
	(Signature)	(Type Name)	(Date)
4)		Souichi NAKAZAWA	
	(Signature)	(Type Name)	(Date)
5)		Tatsuro WATANABE	
6	(Signature)	(Type Name) Hiroyuki HiRATSUKA	(Date)
	(Signature)	(Type Name)	(Date):
7)		Koji NAGAI	
	(Signature)	(Type Name)	(Date)

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(a) executed on	; (Insert date of execution of applica	tion, if not concurrent)
(b) filed on;	Assignee's attorney is hereby a data, when known.	uthorized to insert in (b) the specified
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1)	Junji NAKAI	
(Signature)	(Type Name)	(Date)
2) Hirogochi Motumoto (Signature)	Hiroyoshi MATSUMOTO	September 10, 20/3
(Signature)	(Type Name)	(Date)
3)(Signature)	Masakazu YOSHIDA (Type Name)	(Date)
(Signature)	Souichi NAKAZAWA	(Eure)
4)(Signature)	(Type Name)	(Date)
e)	Tatsuro WATANABE	, ,
(Signature)	(Type Name)	(Daie)
6)	Hiroyuki HIRATSUKA	
(Signature)	(Type Name)	(Date)
7)	Koji NAGAI	- Orisi
(Signature)	(Type Name)	(Date)

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1)	Junji N AKAI	
(Signature)	(Type Name) Hiroyoshi MATSUMOTO	(Date)
38 Masukani Joshida (Signishire)	(Type Name) Masakazu YOSHIDA (Type Name)	September 13, 201
(Signature)	Souichi NAKAZAWA (Type Name) Tatsuro WATANABE	(Date)
(Signature)	(Type Name) Hiroyuki HIRATSUKA	(Date)
(Signature) 7)	(Type Name) Koji NAGAI	(Date)
(Symmetura)	(Type Name)	(Data)

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(b) filed on		authorized to insert in (b) the specified
Serial No. /	data, when known.	
substitute, reissue or reexamination application based including any extensions thereof (collectively, herein The ASSIGNOR agree(s), when requested by sain which the ASSIGNEE may deem necessary, desirable including in the preparation and prosecution of said reexamination, or public use proceeding, and in any lacts to include but not be limited to executing all paysworn testimony, and obtaining and producing evides IN WITNESS WHEREOF, the undersigned invertible in the same proceeding and producing evidents.	nafter, "said application(s) and Letters Patent(s)" d ASSIGNEE and without charge to but at the extension of the expedient, for securing, maintaining and enterpolication(s) and the issuance of said Letters Patingation or other legal proceeding which may arisers, including separate assignments and declarance.). xpense of said ASSIGNEE, to do all act forcing protection for said invention, stent(s), in any interference, reissue, se or be declared in relation to same, sue tions, taking all rightful oaths, providing
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(Signature)	<i>(Type Name)</i> Hiroyoshi MATSUMOTO	(Date)
(Signature)	(Type Name)	(Date)
3)	Masakazu YOSHIDA	
(Signature)	(Type Name)	(Date)
4) Tourchi Nakayowi	Souichi NAKAZAWA	Gentlem 12, 2013
(Signature)	(Type Name)	(Date)
5)	Tatsuro WATANABE	
(Signature)	<i>(Type Name)</i> Hiroyuki HIRATSUKA	(Date)
(Signature)	(Type Name)	(Date)
7)	Koji NAGAI	
(Sionature)	(Tone Name)	(Date)

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	Junji NAKA!	
1) (Signature)	(Type Name) Hiroyoshi MATSUMOTO	(Date)
(Signature)	(Type Name)	(Date)
3)	Masakazu YOSHIDA	
(Signature)	(Type Name)	(Date)
4)	Souichi NAKAZAWA	
(Signature)	(Type Name)	(Date)
5) Satsuro Watanabe	Tatsuro WATANABE	<u>September 10, 2013</u>
(Signature)	<i>(Type Name)</i> Hiroyuki HIRATSUKA	(Date)
(Signature)	(Type Name)	(Date)
7)	Koji NAGAI	
(Signature)	(Type Name)	(Date)

PATENT

REEL: 044357 FRAME: 0804

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEB(S))

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		Junji NAKAI	
1) (Signature)		(Type Name) Hiroyoshi MATSUMOTO	(Date)
(Signature)		(Type Name)	(Date)
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(Signature)		(Type Name)	(Date)
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(Signature)	(Type Name)	(Date)
(Signature) 7) Loji Nagai (Signature)	Koji NAGAI	September 10.2013
(Signature)	(Type Name)	(Date)

PATENT REEL: 044357 FRAME: 0806

RECORDED: 12/11/2017