

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5692862

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RICOH COMPANY, LTD.	08/27/2019

RECEIVING PARTY DATA

Name:	E INK CORPORATION
Street Address:	1000 TECHNOLOGY PARK DRIVE
City:	BILLERICA
State/Country:	MASSACHUSETTS
Postal Code:	01821-4165

PROPERTY NUMBERS Total: 17

Property Type	Number
Patent Number:	8063887
Patent Number:	8319766
Patent Number:	8416197
Patent Number:	8355018
Patent Number:	8279232
Patent Number:	8466927
Patent Number:	8203547
Patent Number:	8913000
Patent Number:	8237733
Patent Number:	9024862
Patent Number:	8587597
Patent Number:	9058778
Patent Number:	9159274
Patent Number:	6590696
Patent Number:	8728620
Patent Number:	9104083
Patent Number:	9122121

CORRESPONDENCE DATA

Fax Number: (617)499-6200

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

PATENT

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 617-499-6000
Email: IP@EInk.com
Correspondent Name: E INK CORPORATION
Address Line 1: 1000 TECHNOLOGY PARK DRIVE
Address Line 2: ATTN: IP DEPARTMENT
Address Line 4: BILLERICA, MASSACHUSETTS 01821-4165

ATTORNEY DOCKET NUMBER:	RICOH PORTFOLIO
NAME OF SUBMITTER:	ALISON M. BERRYMAN
SIGNATURE:	/Alison M. Berryman/
DATE SIGNED:	08/29/2019

Total Attachments: 3
source=ASSIGNMENT#page1.tif
source=ASSIGNMENT#page2.tif
source=ASSIGNMENT#page3.tif

EXHIBIT D

PATENT ASSIGNMENT

WHEREAS, Ricoh Company, Ltd., a Japanese corporation having a place of business at 3-6 Nakamagome 1-Chome, Ohta-ku, Tokyo 143-8555, Japan ("Seller") is the sole and exclusive owner of the patents listed in Attachment 1 (the "Patents"); and

WHEREAS, E Ink Corporation, a company organized under the laws of the State of Delaware, USA, having a place of business at 1000 Technology Park Drive, Billerica, MA 01821, USA ("Purchaser") desires to acquire all right, title and interest in, to and under said Patents;

NOW, THEREFORE, for good and valuable consideration the sufficiency of which is acknowledged by the parties:

Seller does hereby irrevocably and perpetually assign, convey, and transfer to Purchaser, all of Seller's right, title and interest throughout the world, in and to the Patents, all of which are to be held and enjoyed by Purchaser for its own use and enjoyment, and except as otherwise explicitly agreed and acknowledged in writing between the parties, for the use and enjoyment of its successors, assigns or other legal representatives, to the end of the term or terms for which the Patents are or may be granted, reissued or extended as fully and entirely as the same would have been held and enjoyed by Seller, if this assignment and sale had not been made; together with all causes of action (whether known or unknown or whether currently pending, filed, or otherwise) and other enforcement rights under, or on account of, any of the Patents, including, without limitation, all causes of action and other enforcement rights for (i) damages, (ii) injunctive relief, and (iii) any other remedies of any kind for past, current and future infringement, and all rights to collect royalties or other payments under or on account of any of the Patents, all for Purchaser's own use and behalf, and for the use and behalf of its successors, assigns or other legal representatives.

Seller hereby authorizes and requests the Commissioner of Patents and Trademarks, or an equivalent officer in any jurisdiction in which a Patent may have issued, to issue any and all letters patent on said inventions to Purchaser as assignee of the entire interest, and hereby covenants that Seller has full right to convey the entire interest herein assigned, and that, except as otherwise explicitly agreed and acknowledged in writing between the parties, Seller has not executed, and will not execute, any agreements in conflict therewith.

RICOH COMPANY, LTD.

By: Hisashi Ishijima

Title: Corporate Associate Vice President

Signature: 

Date: 8/27/2019

**ATTACHMENT I TO
EXHIBIT D
PATENT ASSIGNMENT**

Patent Number	Asset Type	Filing/Application Date	Publication/Issue Date	Title	
1	US8063887	Patent	09-Feb-2007	22-Nov-2011	Thin multiple layer input/output device
2	JP5556173	Patent	13-June-2008	23-July-2014	Method and apparatus for reducing image artifacts on the electronic paper display
3-1	US8319766	Patent	31-Mar-2008	27-Nov-2012	Spatially masked update for electronic paper displays
3-1	JP5141682	Patent	13-June-2008	13-Feb-2013	How to update the image at a bi-stable display and device
3-1	EP2054761	Patent	13-June-2008	16-May-2018	Spatially masked update for electronic paper displays
3-2	US8416197	Patent	31-Mar-2008	09-Apr-2013	Pen tracking and low latency display updates on electronic paper displays
3-2	JP5016024	Patent	13-June-2008	05-Sept-2012	Pen tracking and low latency display updates on electronic paper displays
3-3	US8355018	Patent	31-Mar-2008	15-Jan-2013	Independent pixel waveforms for updating electronic paper displays
3-3	JP5568985	Patent	13-June-2008	13-Aug-2014	Update method and a bi-stable display system
3-3	EP2054764	Patent	13-June-2008	3-Dec-2014	Method and system for updating an image on a bi-stable display
3-4	US8279232	Patent	31-Mar-2008	02-Oct-2012	Full framebuffer for electronic paper displays
3-4	JP4958970	Patent	13-June-2008	20-June-2012	
3-4	EP2054763	Patent	13-June-2008	11-Mar-2015	
3-4	US8466927	Patent	07-Sept-2012	18-June-2013	
3-5	US8203547	Patent	31-Mar-2008	19-June-2012	Video playback on electronic paper displays
3-5	EP2054762	Patent	13-June-2008	22-Mar-2017	
3-5	US8913000	Patent	31-Mar-2009	16-Dec-2014	

17

PURCHASER

M

SELLER *HL*

Fam	Patent Number	Asset Type	Filing/Application Date	Publication/Issue Date	Title
4	US8237733	Patent	31-Mar-2009	07-Aug-2012	Page transition on electronic paper display
5	US9024862	Patent	02-July-2009	05-May-2015	Dynamic creation of waveform palette
6	US8587597	Patent	06-Oct-2009	19-Nov-2013	Page transitions on electronic paper displays
7	US9058778	Patent	29-June-2010	16-June-2015	Maintaining DC balance in electronic paper displays using contrast correction
8	US9159274	Patent	07-Mar-2011	13-Oct-2015	Driver for page transitions in an electronic paper device
9	US6590696	Patent	05-June-2001	08-July-2003	Image display medium and image display device using the image display medium
10	US8728620	Patent	23-June-2011	20-May-2014	Fine particles and method of producing thereof, fine particle dispersion liquid, and image display medium and image display apparatus
10	CN101010353	Patent	30-Aug-2005	16-June-2010	
10	EP1786844	Patent	30-Aug-2005	06-Oct-2010	
10	KR100902622	Patent	30-Aug-2005	11-June-2009	
11	US9104083	Patent	11-Apr-2014	11-Aug-2015	Recording medium and image recording set
12	US9122121	Patent	02-June-2014	01-Sept-2015	

18

PURCHASER

SELLER 