505259856 01/03/2019

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5306628

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	GRANT OF SECURITY INTEREST IN PATENTS	

# **CONVEYING PARTY DATA**

Name	Execution Date
ELECTRONICS FOR IMAGING, INC.	01/02/2019

# **RECEIVING PARTY DATA**

Name:	CITIBANK, N.A., AS ADMINISTRATIVE AGENT
Street Address:	COMMERCIAL COLLATERAL CONTROL, ATTN: COLLATERAL CONTROL MAIL STOP CC1-30 6400 LAS COLINAS BLVD
City:	IRVING
State/Country:	TEXAS
Postal Code:	75039

### **PROPERTY NUMBERS Total: 324**

Property Type	Number
Patent Number:	6757440
Patent Number:	6757436
Patent Number:	7460721
Patent Number:	6678068
Patent Number:	6025922
Patent Number:	6215562
Patent Number:	6201614
Patent Number:	6590676
Patent Number:	7177049
Patent Number:	7564583
Patent Number:	7684085
Patent Number:	6289122
Patent Number:	6741262
Patent Number:	6292270
Patent Number:	6552815
Patent Number:	6327050
Patent Number:	6559958
Patent Number:	6879409
Patent Number:	7884962
Patent Number:	6930795

<u>PATENT</u>

REEL: 048002 FRAME: 0135

Property Type	Number
Patent Number:	6327047
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Patent Number:       7177045         Patent Number:       7800776         Patent Number:       7259893         Patent Number:       7729014         Patent Number:       6781596         Patent Number:       6950110         Patent Number:       7259768         Patent Number:       7756346         Patent Number:       7528974	
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Application Number:	15818484
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Application Number:	15491831
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Application Number:	15603880
Application Number:	15472630
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Patent Number:	9862849
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Application Number:	15876075
Application Number:	62712879
Patent Number:	7367060
Application Number:	16173339
PCT Number:	US2017041130
PCT Number:	US2017046571
PCT Number:	US2017053492
PCT Number:	US2017056209
PCT Number:	US2017058526
PCT Number:	US2017065122
PCT Number:	US2017065126

#### **CORRESPONDENCE DATA**

**Fax Number:** (212)310-8007

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:** 212.310.8000

Email: juan.arias@weil.com
Correspondent Name: JACKSON ALLDREDGE

Address Line 1: WEIL, GOTSHAL & MANGES LLP

Address Line 2: 767 FIFTH AVENUE

Address Line 4: NEW YORK, NEW YORK 10153

NAME OF SUBMITTER:	JACKSON ALLDREDGE
SIGNATURE:	/JACKSON ALLDREDGE/
DATE SIGNED:	01/03/2019

#### **Total Attachments: 17**

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#### GRANT OF SECURITY INTEREST IN PATENTS

THIS GRANT OF SECURITY INTEREST IN PATENTS (this "Security Grant"), dated as of January 2, 2019, is made by Electronics For Imaging, Inc, a Delaware corporation (the "Grantor"), and Citibank, N.A., in its capacity as administrative agent (the "Administrative Agent") for the Secured Parties under and as defined in the Credit Agreement referred to below.

#### WITNESSETH:

WHEREAS, pursuant to the Credit Agreement, dated as of January 2, 2019 (as the same may be amended, restated, amended and restated, supplemented or otherwise modified from time to time, the "Credit Agreement"), among the Grantor, the financial institutions party thereto as Lenders and the Administrative Agent, Lenders agreed to make extensions of credit to the Grantor upon the terms and subject to the conditions set forth therein; and

WHEREAS, the Grantor is party to the Security Agreement of even date herewith in favor of the Administrative Agent (the "Security Agreement") pursuant to which the Grantor is required to execute and deliver this Security Grant;

NOW, THEREFORE, in consideration of the premises and to induce the Administrative Agent to enter into the Credit Agreement, the Grantor hereby agrees with the Administrative Agent as follows:

<u>Section 1.</u> <u>Defined Terms</u>. Capitalized terms used herein without definition are used as defined in the Security Agreement.

- Section 2. Grant of Security Interest in Patent Collateral. The Grantor hereby pledges, assigns and grants to the Administrative Agent, on behalf of and for the benefit of the Secured Parties, a security interest in all of its right, title and interest in, to and under the following Collateral of the Grantor (the "Patent Collateral")
  - a. all of its Patents, including, without limitation, those referred to on <u>Schedule 1</u> hereto;
  - b. all reissues, divisions, continuations, renewals, extensions and continuations-inpart thereof; and
  - c. all income, royalties, proceeds and liabilities at any time due or payable or asserted under and with respect to any of the foregoing, including, without limitation, all rights to sue and recover at law or in equity for any past, present and future infringement, misappropriation, dilution, violation or other impairment thereof.
- Section 3. Security Agreement. The security interest granted in connection with this Security Grant is granted in conjunction with the security interest granted to the Administrative Agent pursuant to the Security Agreement and the Grantor hereby acknowledges and agrees that the rights and remedies of the Administrative Agent with respect to the security interest in the Patent Collateral made and granted hereby are fully set forth in the Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein.
- Section 4. Grantor Remains Liable. The Grantor hereby agrees that, anything herein to the contrary notwithstanding, the Grantor shall assume full and complete responsibility for the prosecution, defense, enforcement or any other necessary or desirable actions in connection with their Patents.

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Section 5. Counterparts. This Security Grant may be executed in any number of counterparts and by different parties in separate counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement. Signature pages may be detached from multiple separate counterparts and attached to a single counterpart.

Section 6. Governing Law. This Security Grant and the rights and obligations of the parties hereto shall be governed by, and construed and interpreted in accordance with, the law of the State of New York.

[SIGNATURE PAGES FOLLOW]

IN WITNESS WHEREOF, the Grantor has caused this Security Grant to be executed and delivered by its duly authorized officer as of the date first set forth above.

ELECTRONICS FOR IMAGING, INC., as a Grantor

Name: Marc Olin

Title: Chief Financial Officer

SIGNATURE PAGE TO GRANT OF SECURITY INTEREST IN PATENTS

ACCEPTED AND AGREED as of the date first above written:

CITIBANK, N.A.,

as Administrative Agent

By:

Name: Stuart Darby

Title: Senior Vice President

SIGNATURE PAGE TO GRANT OF SECURITY INTEREST IN PATENTS

## SCHEDULE I TO GRANT OF SECURITY INTEREST IN PATENTS

Patent Registrations

(See attached)

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FILE NUMBER	COUNTRY	APP NO	FILING DATE	PATENT NO	GRANT DATE	TITLE	STATUS	MATTER TYPE
440555 0000 11503	United States of	10/105 505				METHODS AND APPARATUS FOR		
110656-8009.US02	America	10/198,505	2002-07-18	6,757,440	2004-06-29	DATA COMPRESSION METHODS AND APPARATUS FOR	Issued	Utility
	United States of					DATA COMPRESSION WITH A		
110656-8009.US03	America	10/324,796	2002-12-19	6,757,436	2004-06-29	HYBRID CONTEXT	Issued	Utility
	United States of					METHODS AND APPARATUS FOR DATA COMPRESSION WITH A		
110656-8009.US05	America	11/381,585	2006-05-04	7,460,721	2008-12-02	HYBRID CONTEXT	Issued	Utility
140656 8056 11504	United States of	1				CLIENT PRINT SERVER LINK FOR		
110656-8056,US01	America United States of	09/267,093	1999-03-11	6,678,068	2004-01-13	OUTPUT PERIPHERAL DEVICE REDUCTION OF BANDING IN	Issued	Utility
110656-8057.US01	America	09/216,333	1998-12-18	6,025,922	2000-02-15	PRINTED IMAGES	Issued	Utility
110555 0050 11504	United States of	00/215 575	1000 40 46					
110656-8058.US01	America United States of	09/215,575	1998-12-16	6,215,562	2001-04-10	VISUAL CALIBRATION  DITHERED IMAGE COMPRESSION	Issued	Utility
110656-8059.US01	America	09/220,324	1998-12-24	6,201,614	2001-03-13	SYSTEM	Issued	Utility
110656 8063 11601	United States of America	09/314,573	1000 05 10	6 500 676	2002 07 08	IMAGE RECONSTRUCTION		
110656-8062.US01	United States of		1999-05-18	6,590,676	2003-07-08	ARCHITECTURE IMAGE RECONSTRUCTION	Issued	Utility
110656-8062.US02	America	10/428,503	2003-05-02	7,177,049	2007-02-13	ARCHITECTURE	Issued	Utility
	I laited States of					METHODS AND APPARATUS FOR		
110656-8062.US03	United States of America	11/674,534	2007-02-13	7,564,583	2009-07-21	RECONSTRUCTING DIGITIZED	Issued	Utility
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110555 0055 11501	United States of	40/004 700				RECONSTRUCTING DIGITIZED		
110656-8062.US04	America United States of	12/204,732	2008-09-04	7,684,085	2010-03-23	IMAGES INTELLIGENT DETECTION OF TEXT	Issued	Utility
110656-8063.US01	America	09/293,637	1999-04-15	6,289,122	2001-09-11	ON A PAGE	Issued	Utility
110656-8064,US01	United States of America	09/570,678	2000-05-12	6,741,262	2004-05-25	EXPERT COLOR MANAGEMENT SETTINGS METHOD AND INTERFACE		1 141114
110050-0004.0501	United States of	03/3/0,0/0	2000-03-12	0,741,202	2004-03-23	SOFTWARE VALIDATION METHOD	issued	Utility
110656-8065.US01	America	09/267,751	1999-03-10	6,292,270	2001-09-18	AND SYSTEM	Issued	Utility
110656-8065.US02	United States of America	09/919,645	2001 07 21	C E E 2 01 E	2002 04 22	SOFTWARE VALIDATION METHOD		
110030-8003.0302	United States of	03/313,643	2001-07-31	6,552,815	2003-04-22	AND SYSTEM PAGE INDEPENDENT MULTIPLE RIP	Issued	Utility
110656-8069.US01	America	09/298,639	1999-04-23	6,327,050	2001-12-04	SYSTEM	Issued	Utility
	United States of					PRINTING METHOD AND		
110656-8069.US02	America	09/770,856	2001-01-26	6,559,958	2003-05-06	APPARATUS HAVING MULTIPLE RASTER IMAGE PROCESSORS	Issued	Utility
		-100				PRINTING METHOD AND		
110656-8069.US03	United States of America	10/430,850	2002 05 05	C 070 400	2005 04 12	APPARATUS HAVING MULTIPLE		
110030-8003.0303	America	10/430,830	2003-05-05	6,879,409	2005-04-12	RASTER IMAGE PROCESSORS SYSTEMS AND METHODS FOR	Issued	Utility
	United States of					MULTIPLE RASTER IMAGE		
110656-8069.US04	America	11/169,131	2005-06-27	7,884,962	2011-02-08	PROCESSING	issued	Utility
	United States of					PRINTING METHOD AND APPARATUS HAVING MULTIPLE		
110656-8069.US05	1	09/514,465	2000-02-28	6,930,795	2005-08-16	RASTER IMAGE PROCESSORS	Issued	Utility
440554 0070 11504	United States of	~~/ <b>~</b> ~~				AUTOMATIC SCANNER		
110656-8070.US01	America United States of	09/235,642	1999-01-22	6,327,047	2001-12-04	CALIBRATION AUTOMATIC SCANNER	Issued	Utility
110656-8070.U502		09/976,880	2001-10-11	7,212,312	2007-05-01	CALIBRATION	Issued	Utility
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110656-8070.US03	United States of America	11/742,367	2007-04-30	7,812,999	2010-10-12	AUTOMATIC SCANNER CALIBRATION	Issued	Utility
	United States of	.,		.,,				Cinty
110656-8071.US01		09/977,097	2001-10-11	6,549,294	2003-04-15	VARIABLE DATA PRINT JOB SYSTEM	Issued	Utility
110656-8071.US02	United States of America	10/375,572	2003-02-27	6,836,342	2004-12-28	VARIABLE DATA PRINT JOB SYSTEM	Issued	Utility
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110656-8071.US03	America	10/971,512	2004-10-22	7,031,015	2006-04-18	VARIABLE DATA PRINT JOB SYSTEM	Issued	Utility
	United States of					PREPROCESSING METHOD FOR A		
110656-8071.US04		09/481,736	2000-01-11	6,341,018	2002-01-22	VARIABLE DATA PRINT JOB SYSTEM	issued	Utility
					1	REUSABLE AND TRANSFERABLE	3	
110656-8072.US01	United States of America	09/360,861	1999-07-23	6,967,728	- 1	PRINTER DRIVER PREFERENCE SYSTEM	Issued	l leilie.
110000-00/2.0301	, micrica	02/300/001	1333-07-23	0,301,120		APPARATUS AND METHODS FOR	Issued	Utility
	United States of					TRANSFERRING PRINTER DRIVER		
110656-8072.US02	America	11/236,137	2005-09-27	8,294,925			Issued	Utility
	United States of				i	APPARATUS AND METHODS FOR TRANSFERRING PRINTER DRIVER		
110656-8072.US03	i .	13/656,493	2012-10-19	8,860,998	I.		Issued	Utility
	United States of				1	DIGITAL SPREAD SPECTRUM		
110656-8073.US01	America	09/513,538	2000-02-25	6,643,317	2003-11-04	SIMULATOR	Issued	Utility

	United States of	:T	1	<u> </u>		DI ACK TEXT DEINITING FROM A COR		T
110656-8077.US01	America	09/329,656	1999-06-10	6,856,428	2005-02-15	BLACK TEXT PRINTING FROM PAGE DESCRIPTION LANGUAGES	Issued	Utility
***************************************	United States of	1				METHODS AND APPARATUS FOR		
110656-8131.US01	America	11/530,793	2006-09-11	8,243,326	2012-08-14	COLOR PROFILE EDITING	Issued	Utility
	United States of					APPARATUS AND METHOD FOR SELECTIVE COLOR EDITING OF		
110656-8131,US02	America	11/557,909	2006-11-08	8,013,871	2011-09-06	COLOR PROFILES	Issued	Utility
4		***************************************		<del>                                     </del>		APPARATUS AND METHODS FOR	10000	- Control
	United States of	1				EDITING HUE AND SATURATION IN		
110656-8134.US01	America	11/530,825	2006-09-11	7,598,964	2009-10-06	COLOR PROFILES	Issued	Utility
	United States of					METHOD AND APPARATUS FOR		
110656-8200.US01	America	09/693,695	2000-10-19	6,519,053	2003-02-11	SMART JOB TICKET PROCESSING FOR PRINT STREAMS	Issued	Utility
				-,,		TORY WILL STREET	133000	Othicy
	United States of	:	ļ			EFFICIENTLY SCHEDULED MULTIPLE		
110656-8201.US02	America	09/803,395	2001-03-08	6,816,276	2004-11-09	RASTER IMAGE PROCESSORS	Issued	Utility
110050 0005 11001	United States of		4000 00 44	7 75.		SYSTEMS FOR PRINT JOB		
110656-8205.US01	America United States of	09/267,223	1999-03-11	7,304,753	2007-12-04	MONITORING METHODS FOR PRINT JOB	Issued	Utility
110656-8205.US02	America	11/949,681	2007-12-03	7,800,773	2010-09-21	MONITORING	Issued	Utility
		1				SYSTEM AND METHOD FOR	100000	100000
	United States of					PRINTER OUTPUT REGRESSION		
110656-8207.US01	America	09/464,226	1999-12-15	6,490,696	2002-12-03	TESTING USING DISPLAY LISTS	Issued	Utility
						METHOD AND SYSTEM FOR		
110656-8215.US01	United States of America	09/661,489	2000-09-14	7,002,700	2006-02-21	MERGING SCAN FILES INTO A COLOR WORKFLOW	lanuad	t teille.
+10000-0210.0301	- TITLE IVE	00,001,403	2000-03-14	7,002,700	2000-02-21	METHOD AND SYSTEM FOR	Issued	Utility
	United States of					MERGING SCAN FILES INTO A		
110656-8215.US02	America	11/327,070	2006-01-05	8,139,256	2012-03-20	COLOR WORKFLOW	Issued	Utility
	United States of	1				METHOD AND APPARATUS FOR		1
110656-8219.U501	America	09/808,791	2001-03-14	6,778,700	2004-08-17	TEXT DETECTION	Issued	Utility
110656 8330 11501	United States of	1 .	2001 02 22	£ 550 004	2002 04 22			
110656-8220.US01	America	09/814,455	2001-03-22	6,550,991	2003-04-22	PAPER TRAY ADJUSTMENT PAGE SIMPLE AND INEXPENSIVE HIGH-	Issued	Utility
				1		CAPACITY OUTPUT CATCH TRAY		
	United States of			-		FOR DOCUMENT PRODUCTION		
110656-8225.US01	America	09/661,968	2000-09-14	6,572,293	2003-06-03	MACHINES	Issued	Utility
						SIMPLE AND INEXPENSIVE HIGH-		
						CAPACITY OUTPUT CATCH TRAY		
	United States of					FOR DOCUMENT PRODUCTION		
110656-8225.US02	America	10/404,942	2003-03-31	6,832,865	2004-12-21	MACHINES	Issued	Utility
						SIMPLE AND INEXPENSIVE HIGH- CAPACITY OUTPUT CATCH TRAY		
	United States of					FOR DOCUMENT PRODUCTION		
110656-8225.US03	America	10/983,431	2004-11-08	7,204,484	2007-04-17	MACHINES	Issued	Utility
						SIMPLE AND INEXPENSIVE HIGH-		
						CAPACITY OUTPUT CATCH TRAY		
110050 5335 11504	United States of		2005 11 00	7 267 550	2000 05 05	FOR DOCUMENT PRODUCTION		
110656-8225.US04	America	11/557,762	2006-11-08	7,367,559	2008-05-06	MACHINES SIMPLE AND INEXPENSIVE HIGH	Issued	Utility
				1		CAPACITY OUTPUT CATCH TRAY		
	United States of					FOR DOCUMENT PRODUCTION		
110656-8225.US05	America	12/115,480	2008-05-05	7,552,923	2009-06-30	MACHINES	Issued	Utility
	United States of					AUTOMATIC PRINT LOAD		
110656-8227.US01	America	09/693,518	2000-10-19	7,081,969	2006-07-25	BALANCING	Issued	Utility
	United States of					SYSTEMS FOR PROVIDING		
110656-8228.US01	America	10/808,910	2004-03-24	7,653,683	2010-01-26	INFORMATION ACCESS TO NETWORK DEVICES	Issued	Litility
	United States of		200-1 03-24	,,,,,,,,,,,,,	2010-01-20	MASK GENERATOR AND IMAGE	issueu	Utility
110656-8229.US01	America	09/721,548	2000-11-21	6,543,871	2003-04-08	MASK PATTERNS	Issued	Utility
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						ANALYZING ELECTRONIC		
<u>.</u>	United States of	ì				DOCUMENTS AND DIGITAL		
110656-8233.US01	America	10/631,115	2003-07-31	7,859,689	2010-12-28	PRINTING SYSTEMS	Issued	Utility
						METHODS AND APPARATUS FOR ANALYZING ELECTRONIC		
	United States of					DOCUMENTS AND DIGITAL		
110656-8233.US02	America	12/970,733	2010-12-16	8,169,630	2012-05-01	PRINTING SYSTEMS	Issued	Utility
******	United States of					METHOD AND APPARATUS FOR TAB		' '
110656-8243.US01	America	09/791,111	2001-02-22	6,549,300	2003-04-15	PRINTING	Issued	Utility
	United States of					METHODS AND APPARATUS FOR		
	America	10/946,232	2004-09-20	7,869,079	2011-01-11	PRINT JOB SUBMISSION	Issued	Utility
110656-8248.U501	1		1	1	1	METHODS AND APPARATUS FOR		
	United States of	12/050 171	2010 12 02	0 107 177	2012 01 21	DRINT IOD CHRAICCION	ta accord	Little 10 co.
110656-8248.US01 110656-8248.US02	United States of	12/959,171	2010-12-02	8,107,122	2012-01-31	PRINT JOB SUBMISSION	Issued	Utility
	United States of	12/959,171	2010-12-02	8,107,122	2012-01-31		Issued	Utility
	United States of	12/959,171	2010-12-02	8,107,122	2012-01-31	PRINT JOB SUBMISSION  DIGITAL PULSE WIDTH MODULATOR FOR USE IN ELECTROSTATIC	Issued	Utility

	T	T	T	T	1		7	<del></del>
110656 9360 11503	United States of	1 .	2005 12 13	7 452 506	2009 11 18	DIGITAL PULSE WIDTH MODULATOR		
110656-8260.US02	America	11/301,894	2005-12-13	7,453,596	2008-11-18	PRINTING MECHANISMS	Issued	Utility
110656-8261.US01	United States of America	11/224,486	2005-09-12	7,302,095	2007-11-27	METHOD AND APPARATUS FOR AUTOMATED IMAGE CORRECTION FOR DIGITAL IMAGE ACQUISITION	Issued	Utility
	United States of					METHODS AND APPARATUS FOR AUTOMATED IMAGE CORRECTION		
110656-8261.US02	America	11/944,302	2007-11-21	7,522,770	2009-04-21	FOR DIGITAL IMAGE ACQUISITION	Issued	Utility
110656-8267.US01	United States of America	09/791,007	2001-02-22	7,461,377	2008-12-02	METHOD AND APPARATUS FOR AUTOMATICALLY MANAGING CAPABILITIES IN A VIRTUAL PRINTER GROUP	Issued	Utility
	United States of					METHOD AND APPARATUS FOR WATERMARKING DIGITALLY		
110656-8279.US01	America	10/318,547	2002-12-12	7,307,761	2007-12-11	PRINTED DOCUMENTS METHODS AND APPARATUS FOR	Issued	Utility
110656-8279.US02	United States of America	11/952,084	2007-12-06	7,880,934	2011-02-01	WATERMARKING DIGITALLY PRINTED DOCUMENTS	Issued	Utility
110656-8279.US03	United States of America	12/964,461	2010-12-09	8,014,036	2011-09-06	METHODS AND APPARATUS FOR WATERMARKING DIGITALLY PRINTED DOCUMENTS	Issued	Utility
110656-8289.US01	United States of America	09/991,036	2001-11-20	7,480,070	2009-01-20	SPOT COLOR PATTERN SYSTEM	Issued	Utility
110656-8297.US02	United States of America	12/110,329	2008-04-27	8,601,605	2013-12-03	METHODS AND APPARATUS FOR SECURE DOCUMENT PRINTING		
	United States of					METHODS AND APPARATUS FOR	Issued	Utility
110656-8297.US03	America United States of	14/076,962	2013-11-11	8,782,808	2014-07-15	METHODS AND APPARATUS FOR	Issued	Utility
110656-8297.US04	America	14/328,539	2014-07-10	9,134,935	2015-09-15	SECURE DOCUMENT PRINTING METHODS AND APPARATUS FOR	Issued	Utility
110656-8302.US01	United States of	10/836,071	2004-04-30	7,742,204	2010-06-22	DETERMINING A TOTAL COLORANT LIMIT FOR DIGITAL IMAGING DEVICES	Issued	Utility
	United States of					PROCESS AND SYSTEM FOR MIXED		
110656-8305.US01	America United States of	10/047,505	2001-10-26	7,177,045	2007-02-13	PAGE IMPOSITION  METHODS AND APPARATUS FOR	Issued	Utility
110656-8305.US02	America	11/674,052	2007-02-12	7,800,776	2010-09-21	MIXED PAGE IMPOSITION METHODS AND APPARATUS FOR	issued	Utility
110656-8306.US01	United States of America United States of	10/324,771	2002-12-19	7,259,893	2007-08-21	GRAY COMPONENT REPLACEMENT BLENDING	Issued	Utility
110656-8306.US02	America	11/840,926	2007-08-17	7,729,014	2010-06-01	SYSTEMS FOR GRAY COMPONENT REPLACEMENT BLENDING	Issued	Utility
110656-8314.US01	United States of America	10/154,643	2002-05-24	6,781,596	2004-08-24	METHODS AND APPARATUS FOR CONVERTING COLOR VALUES	Issued	Utility
110656-8314.US02	United States of America United States of	10/897,958	2004-07-23	6,950,110	2005-09-27	METHODS AND APPARATUS FOR CONVERTING COLOR VALUES METHODS AND APPARATUS FOR	Issued	Utility
110656-8314.US03	1	11/223,656	2005-09-09	7,259,768	2007-08-21	CONVERTING COLOR VALUES	Issued	Utility
110656-8314.US04	1	11/841,301	2007-08-20	7,756,346	2010-07-13	METHODS AND APPARATUS FOR CONVERTING COLOR VALUES	Issued	Utility
	United States of					METHODS AND APPARATUS FOR PROVIDING UNIVERSAL PRINT SERVICES AND ASYNCHRONOUS		
110656-8320.US01	America	10/377,193	2003-02-28	7,528,974	2009-05-05	MESSAGE SERVICES METHODS AND APPARATUS FOR	Issued	Utility
110656-8500.US01	United States of America	10/836,177	2004-04-30	7,724,392	2010-05-25	CALIBRATING DIGITAL IMAGING DEVICES	Issued	I triliev
		_2, 220, 111		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2010-03-23		inaned	Utility
110656-8501.US01	United States of America	10/836,070	2004-04-30	7,688,486	2010-03-30	METHODS AND APPARATUS FOR PROFILING COLOR OUTPUT DEVICES	Issued	Utility
110656-8503.US01	<del></del>	09/688,457	2000-10-16	6,859,832	2005-02-22		Issued	Utility
110656-8503.US02		10/984,464	2004-11-08	7,552,207	2009-06-23		Issued	Utility
110656-8505.US01	United States of America	12/925,945	2010-11-01	9,971,551	2018-05-15	PREVISUALIZATION FOR LARGE FORMAT PRINT JOBS	Issued	Utility
110656-8506.US01	United States of America	10/718,211	2003-11-20	7,672,013	2010-03-02	METHODS AND APPARATUS FOR ELECTRONICALLY TRAPPING DIGITAL IMAGES	Issued	Utility
110656-8507.US01	United States of	10/511,179	2003-04-07	7,495,812	2009-02-24	PRINTING DEVICE USING COLOR PROFILE CALIBRATION AND METHOD FOR OPERATING A PRINTING DEVICE USING COLOR	Issued	Utility

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110656-8508.US01	United States of America	10/922,419	2004-08-20	7,097,369	2006-08-29	METHOD AND APPARATUS FOR	ta ann and	4 44 11 1
110030-8308.0301	United States of	1	2004-08-20	7,097,369	2006-08-29	INSERTING TABS IN A PRINT JOB METHODS AND APPARATUS FOR	Issued	Utility
110656-8508.US02	America	11/465,523	2006-08-18	7,706,015	2010-04-27	INSERTING TABS IN A PRINT JOB	Issued	Utility
				<u> </u>		PRINT DRIVER APPARATUS AND	10000	
	United States of	:	Į.			METHODS FOR FORWARDING A		
110656-8509.US01	America	09/688,458	2000-10-16	6,978,299	2005-12-20	PRINT JOB OVER A NETWORK	Issued	Utility
			İ					
	Haitad States of			İ		METHODS AND APPARATUS FOR		
110666 0610 11601	United States of America		3004 08 03	7 720 710	2010 00 15	COMMUNICATING AND DISPLAYING	i	
110656-8510.US01	United States of	10/909,713	2004-08-02	7,738,710	2010-06-15	COMPRESSED IMAGE DATA APPARATUS AND METHODS FOR	Issued	Utility
110656-8511.US01	America	11/361,434	2006-02-23	7,302,103	2007-11-27	DIGITAL IMAGE COMPRESSION	Issued	t latities .
110030 0311.0301	United States of		2000 02-23	7,302,103	2007-11-27	APPARATUS AND METHODS FOR	issuea	Utility
110656-8511.US02	America	11/944,372	2007-11-21	7,397,961	2008-07-08	DIGITAL IMAGE COMPRESSION	Issued	Utility
	T	<u> </u>				METHOD AND DEVICE FOR	1	- John Cy
						PROOFING RASTER PRINT DATA		
	United States of					WHILE MAINTAINING THE RASTER		
110656-8512.US01	America	10/149,099	2001-10-04	7,245,400	2007-07-17	INFORMATION	Issued	Utility
			i			METHOD AND DEVICE FOR		
						PROOFING RASTER PRINT DATA	İ	
110050 9512 U502	United States of	I	2007.07.16	7 207 502	2002 07 07	WHILE MAINTAINING THE RASTER		
110656-8512.US02	America	11/778,630	2007-07-16	7,397,583	2008-07-08	INFORMATION	Issued	Utility
						METHOD AND DEVICE FOR PROOFING RASTER PRINT DATA		
	United States of					WHILE MAINTAINING THE RASTER		
110656-8512.US03	America	12/168,812	2008-07-07	8,730,525	2014-05-20	INFORMATION	Issued	Utility
	1	_,,		_,,	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	SPOOLING SERVER APPARATUS AND		Cinty
				1		METHODS FOR RECEIVING,		
	United States of					STORING, AND FORWARDING A		
110656-8513.US01	America	09/688,475	2000-10-16	7,095,518	2006-08-22	PRINT JOB OVER A NETWORK	Issued	Utility
						APPARATUS AND METHODS FOR		
	United States of	1 .	İ			PRINTING A PRINT JOB OVER A		
110656-8513.US02	America	11/329,993	2006-01-11	7,460,265	2008-12-02	NETWORK	Issued	Utility
						METHOD OF MONITORING AT		
	United States of			1		LEAST ONE PRINTING PARAMETER		
110656-8514.US01	United States of America	10/416,198	2001-11-09	6 066 131	2005-03-15	OF A PRINTER, AND PRINTING	l	
110030-8314.0301	Amenta	10/410,198	2001-11-09	6,866,434	2005-03-15	SYSTEM METHOD OF MONITORING AT	Issued	Utility
				1		LEAST ONE PRINTING PARAMETER	ļ	
						OF PRINTER, METHOD OF		
			ļ			DETERMINING AND SENDING AT		
						LEAST ONE PRINTING PARAMETER		
	United States of					OF A PRINTER, PRINTING SYSTEM		
110656-8514.US02	America	10/912,240	2004-08-06	7,738,147	2010-06-15	AND PRINTER	Issued	Utility
						METHODS AND APPARATUS FOR		
						DETERMINING COLORANT LIMITS		
440000 8547 11504	United States of	40/006 070				FOR CALIBRATING DIGITAL		
110656-8517.US01	America United States of	10/836,072	2004-04-30	7,630,106	2009-12-08	IMAGING DEVICES	Issued	Utility
110656-8518.US01	America	10/840,569	2004-05-05	7,688,458	2010-03-30	METHODS AND APPARATUS FOR PRINT WORKFLOW PROCESSING		I In the
110030-0310.0301	America	10,040,303	2004-03-03	7,000,430	2010-03-30	FRINT WORKFLOW PROCESSING	Issued	Utility
						METHOD AND APPARATUS FOR		
						REQUESTING AND RECEIVING A		
	United States of					PRINT JOB VIA A PRINTER POLLING		
110656-8519.US01	America	09/688,567	2000-10-16	6,748,471	2004-06-08	DEVICE ASSOCIATE WITH A PRINTER	Issued	Utility
						METHOD AND APPARATUS FOR		
						SECURELY REQUESTING AND		1
	<u>[                                    </u>					RECEIVING A PRINT JOB VIA A		
110000 0010 11000	United States of	10/252 621	2004 65 27			PRINTER POLLING DEVICE		
110656-8519.US02	America	10/753,634	2004-01-07	7,093,046	2006-08-15	ASSOCIATED WITH A PRINTER	Issued	Utility
						METHOD AND APPARATUS SO		
						METHOD AND APPARATUS FOR REQUESTING AND RECEIVING A		
	United States of			1		PRINT JOB VIA A PRINTER POLLING		
110656-8519.US03	!	11/428,614	2006-07-05	7,343,438	2008-03-11	DEVICE ASSOCIATE WITH A PRINTER	Issued	Utility
		-,,		1.,2.10,100		METHODS AND APPARATUS FOR	Josefu	Othity
	United States of					REQUESTING AND RECEIVING A		
110656-8519.US04	1 1	12/044,996	2008-03-09	7,574,546	2009-08-11	PRINT JOB AT A PRINTER	Issued	Utility
					1			<u> </u>
						METHOD AND APPARATUS FOR		
				]		CONTROLLING A DOCUMENT		
	United States of					OUTPUT DEVICE WITH A CONTROL		
110656-8519.US05		10/896,336	2004-07-21	7,574,545	2009-08-11		Issued	Utility
110050 0555	United States of	10/072 2:-	2004	7 70		METHOD AND APPARATUS FOR		
110656-8526.US01	America	10/850,644	2004-05-21	7,506,253	2009-03-17		Issued	Utility
<del></del>								1
	United States of			İ		METHODS AND APPARATUS FOR		
110656-8528.U501	United States of America	10/880,630	2004-06-29	7,389,452	2008-06-17	MONITORING INTERNAL SIGNALS IN	Issued	Utility

	1	1	T			METHODS AND APPARATUS FOR	T	
	United States of	;				MONITORING INTERNAL SIGNALS IN		
110656-8528.US02	America	12/140,266	2008-06-17	7,669,096	2010-02-23	AN INTEGRATED CIRCUIT	Issued	Utility
	United States of					METHODS AND APPARATUS FOR		
110656-8529.US01	America	10/855,602	2004-05-26	7,463,374	2008-12-09	SECURE PRINTING	Issued	Utility
110656-8529.US02	United States of America	12/256,309	2008-10-22	7 003 000	2011 07 10	METHOD AND APPARATUS FOR	l	
110636-8329.0302	United States of		2008-10-22	7,982,890	2011-07-19	SECURE PRINTING METHODS AND APPARATUS FOR	Issued	Utility
110656-8530.US01	America	10/192,301	2002-07-10	7,296,157	2007-11-13	SECURE DOCUMENT PRINTING	Issued	Utility
	United States of					METHODS AND APPARATUS FOR		
110656-8530.US02	America	11/938,538	2007-11-12	7,831,830	2010-11-09	SECURE DOCUMENT PRINTING	Issued	Utility
110000 0000 11000	United States of	1	2007.11.12	7.040.346	2040 42 07	METHODS AND APPARATUS FOR		
110656-8530.US03	America	11/938,542	2007-11-12	7,849,316	2010-12-07	SECURE DOCUMENT PRINTING METHODS AND APPARATUS FOR	Issued	Utility
						CALIBRATING A DIGITAL COLOR		
	United States of	:				IMAGING DEVICE THAT USES MULTI-		
110656-8531.US01	America	10/836,069	2004-04-30	7,433,078	2008-10-07	HUE COLORANTS	Issued	Utility
						METHODS AND APPARATUS FOR		
						CALIBRATING A DIGITAL COLOR		
110656-8531.US02	United States of America	12/197.984	2008-08-25	7,889,403	2011-02-15	IMAGING DEVICE THAT USES MULTI-		1.10.20.5
110030-0331.0302	America	12/197,964	2008-08-23	7,009,403	2011-02-13	HUE COLORANTS	Issued	Utility
	United States of	:	1			METHODS AND SYSTEMS FOR THE		
110656-8537.US01	America	10/376,141	2003-02-28	7,587,468	2009-09-08	PROVISION OF PRINTING SERVICES	Issued	Utility
						AUTOMATIC MARGIN ALIGNMENT		
	United States of	Į.				USING A DIGITAL DOCUMENT		
110656-8538.US01	America	09/258,386	1999-02-26	6,226,419	2001-05-01	PROCESSOR	Issued	Utility
	United States of				ļ	METHODS AND APPARATUS FOR		
110656-8540.US01	America	10/966,612	2004-10-15	7,889,361	2011-02-15	ADAPTIVE IMPOSITION TEMPLATES	Issued	Utility
			1	1,,002,002		A THE STATE OF THE PAYER	133464	Othicy
	United States of			1		METHODS AND APPARATUS FOR		
110656-8540.US02	America	12/985,937	2011-01-06	8,976,407	2015-03-10	ADAPTIVE IMPOSITION TEMPLATES	Issued	Utility
						METHOD AND COMPUTER		
440555 0550 11504	United States of	1				GENERATED SWATCH CARDS FOR		
110656-8550,US01	America United States of	09/262,571	1999-03-04	6,112,665	2000-09-05	MATCHING COLORS	Issued	Utility
110656-8553.US01	America	10/351,230	2003-01-24	7,023,570	2006-04-04	METHODS AND APPARATUS FOR COLORANT REDUCTION	Issued	Utility
120030 033310301	United States of		12003 01 27	1,023,370	2000 04 04	METHODS AND APPARATUS FOR	133060	Othicy
110656-8553.US02	America	11/370,495	2006-03-06	7,239,403	2007-07-03		Issued	Utility
	United States of					METHODS AND APPARATUS FOR		
110656-8553.US03	America	11/772,478	2007-07-02	7,522,311	2009-04-21	COLORANT REDUCTION	Issued	Utility
	11-1-15					METHODS AND APPARATUS FOR		
110656-8554.US01	United States of America	10/650,279	2003-08-27	7,248,752	2007-07-24	CONVERTING THE RESOLUTION OF BINARY IMAGE DATA	Issued	LIANE.
110030 0334.0301	America	10,030,273	2003-08-27	7,248,732	2007-07-24	METHODS AND APPARATUS FOR	issueu	Utility
			VPP-AMERICAN			COLORIMETRICALLY		
		1				CHARACTERIZING COLOR		
		1			E .	DEVIATION IN COLOR IMAGING		<b>I</b>
	United States of	i .				DEVIATION IN COLOR INIAGING		
110656-8555.US01	United States of America	10/744,207	2003-12-22	7,233,397	2007-06-19	DEVICES	Issued	Utility
110656-8555.US01	1	i .	2003-12-22	7,233,397	2007-06-19	DEVICES METHODS AND APPARATUS FOR	Issued	Utility
110656-8555.US01	1	i .	2003-12-22	7,233,397	2007-06-19	DEVICES  METHODS AND APPARATUS FOR COLORIMETRICALLY	Issued	Utility
110656-8555.US01	America	10/744,207	2003-12-22	7,233,397	2007-06-19	DEVICES  METHODS AND APPARATUS FOR COLORIMETRICALLY CHARACTERIZING COLOR	Issued	Utility
110656-8555.US01	1	10/744,207	2003-12-22	7,233,397	2007-06-19	DEVICES  METHODS AND APPARATUS FOR COLORIMETRICALLY	Issued	Utility
	America United States of America	10/744,207				DEVICES METHODS AND APPARATUS FOR COLORIMETRICALLY CHARACTERIZING COLOR DEVIATION IN COLOR IMAGING		·
110656-8555.US02	America United States of America United States of	11/748,277	2007-05-14	7,426,033	2008-09-16	DEVICES METHODS AND APPARATUS FOR COLORIMETRICALLY CHARACTERIZING COLOR DEVIATION IN COLOR IMAGING DEVICES METHODS AND APPARATUS FOR DYNAMICALLY SOFT PROOFING	Issued	Utility
	America United States of America	10/744,207				DEVICES  METHODS AND APPARATUS FOR COLORIMETRICALLY CHARACTERIZING COLOR DEVIATION IN COLOR IMAGING DEVICES  METHODS AND APPARATUS FOR DYNAMICALLY SOFT PROOFING HALFTONE IMAGES		·
110656-8555.US02	America United States of America United States of America	11/748,277	2007-05-14	7,426,033	2008-09-16	DEVICES  METHODS AND APPARATUS FOR COLORIMETRICALLY CHARACTERIZING COLOR DEVIATION IN COLOR IMAGING DEVICES METHODS AND APPARATUS FOR DYNAMICALLY SOFT PROOFING HALFTONE IMAGES METHODS AND APPARATUS FOR	Issued	Utility
110656-8555.US02 110656-8556.US01	United States of America United States of America United States of	10/744,207	2007-05-14	7,426,033 8,031,363	2008-09-16	DEVICES  METHODS AND APPARATUS FOR COLORIMETRICALLY CHARACTERIZING COLOR DEVIATION IN COLOR IMAGING DEVICES METHODS AND APPARATUS FOR DYNAMICALLY SOFT PROOFING HALFTONE IMAGES METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE	Issued	Utility
110656-8555.US02	America United States of America United States of America	11/748,277	2007-05-14	7,426,033	2008-09-16	DEVICES  METHODS AND APPARATUS FOR COLORIMETRICALLY CHARACTERIZING COLOR DEVIATION IN COLOR IMAGING DEVICES METHODS AND APPARATUS FOR DYNAMICALLY SOFT PROOFING HALFTONE IMAGES METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE	Issued	Utility
110656-8555.US02 110656-8556.US01	United States of America United States of America United States of	10/744,207 11/748,277 10/404,972 10/449,559	2007-05-14	7,426,033 8,031,363	2008-09-16	DEVICES  METHODS AND APPARATUS FOR COLORIMETRICALLY CHARACTERIZING COLOR DEVIATION IN COLOR IMAGING DEVICES  METHODS AND APPARATUS FOR DYNAMICALLY SOFT PROOFING HALFTONE IMAGES METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA	Issued	Utility
110656-8555.US02 110656-8556.US01	United States of America United States of America United States of America United States of America United States of America	10/744,207 11/748,277 10/404,972 10/449,559	2007-05-14	7,426,033 8,031,363	2008-09-16	DEVICES  METHODS AND APPARATUS FOR COLORIMETRICALLY CHARACTERIZING COLOR DEVIATION IN COLOR IMAGING DEVICES  METHODS AND APPARATUS FOR DYNAMICALLY SOFT PROOFING HALFTONE IMAGES  METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA	Issued	Utility
110656-8555.US02 110656-8556.US01 110656-8557.US01	United States of America United States of America United States of America United States of America United States of America United States of America	10/744,207 11/748,277 10/404,972 10/449,559 12/948,502	2007-05-14 2003-03-31 2003-05-29 2010-11-17	7,426,033 8,031,363 7,861,156 9,129,193	2008-09-16 2011-10-04 2010-12-28 2015-09-08	DEVICES  METHODS AND APPARATUS FOR COLORIMETRICALLY CHARACTERIZING COLOR DEVIATION IN COLOR IMAGING DEVICES  METHODS AND APPARATUS FOR DYNAMICALLY SOFT PROOFING HALFTONE IMAGES  METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA PARALLEL PROCESSING PAGE	Issued Issued Issued	Utility Utility Utility Utility
110656-8555.US02 110656-8556.US01 110656-8557.US01	United States of America United States of America United States of America United States of America United States of America	10/744,207 11/748,277 10/404,972 10/449,559	2007-05-14 2003-03-31 2003-05-29	7,426,033 8,031,363 7,861,156	2008-09-16 2011-10-04 2010-12-28	DEVICES  METHODS AND APPARATUS FOR COLORIMETRICALLY CHARACTERIZING COLOR DEVIATION IN COLOR IMAGING DEVICES  METHODS AND APPARATUS FOR DYNAMICALLY SOFT PROOFING HALFTONE IMAGES METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA DESCRIPTION LANGUAGE DATA PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA	Issued Issued	Utility Utility Utility
110656-8555.US02 110656-8556.US01 110656-8557.US01	United States of America United States of America United States of America United States of America United States of America United States of America	10/744,207 11/748,277 10/404,972 10/449,559 12/948,502 14/805,396	2007-05-14 2003-03-31 2003-05-29 2010-11-17	7,426,033 8,031,363 7,861,156 9,129,193	2008-09-16 2011-10-04 2010-12-28 2015-09-08	DEVICES  METHODS AND APPARATUS FOR COLORIMETRICALLY CHARACTERIZING COLOR DEVIATION IN COLOR IMAGING DEVICES  METHODS AND APPARATUS FOR DYNAMICALLY SOFT PROOFING HALFTONE IMAGES METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA DESCRIPTION LANGUAGE DATA DESCRIPTION LANGUAGE DATA DESCRIPTION LANGUAGE DATA DESCRIPTION LANGUAGE DATA METHODS AND APPARATUS FOR	Issued Issued Issued	Utility Utility Utility Utility
110656-8555.US02 110656-8556.US01 110656-8557.US01 110656-8557.US02	United States of America United States of America United States of America United States of America United States of America United States of America United States of America	10/744,207 11/748,277 10/404,972 10/449,559 12/948,502 14/805,396	2007-05-14 2003-03-31 2003-05-29 2010-11-17 2015-07-21	7,426,033 8,031,363 7,861,156 9,129,193 9,779,335	2008-09-16 2011-10-04 2010-12-28 2015-09-08 2017-10-03	DEVICES  METHODS AND APPARATUS FOR COLORIMETRICALLY CHARACTERIZING COLOR DEVIATION IN COLOR IMAGING DEVICES  METHODS AND APPARATUS FOR DYNAMICALLY SOFT PROOFING HALFTONE IMAGES METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA METHODS AND APPARATUS FOR MEDIA SELECTION IN CLUSTERING	Issued Issued Issued Issued	Utility Utility Utility Utility Utility Utility
110656-8555.US02 110656-8556.US01 110656-8557.US01	United States of America United States of America United States of America United States of America United States of America United States of America	10/744,207 11/748,277 10/404,972 10/449,559 12/948,502 14/805,396	2007-05-14 2003-03-31 2003-05-29 2010-11-17	7,426,033 8,031,363 7,861,156 9,129,193	2008-09-16 2011-10-04 2010-12-28 2015-09-08	DEVICES  METHODS AND APPARATUS FOR COLORIMETRICALLY CHARACTERIZING COLOR DEVIATION IN COLOR IMAGING DEVICES  METHODS AND APPARATUS FOR DYNAMICALLY SOFT PROOFING HALFTONE IMAGES METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA METHODS AND APPARATUS FOR MEDIA SELECTION IN CLUSTERING	Issued Issued	Utility Utility Utility Utility
110656-8555.US02 110656-8556.US01 110656-8557.US01 110656-8557.US02	United States of America United States of America United States of America United States of America United States of America United States of America United States of America	10/744,207 11/748,277 10/404,972 10/449,559 12/948,502 14/805,396	2007-05-14 2003-03-31 2003-05-29 2010-11-17 2015-07-21	7,426,033 8,031,363 7,861,156 9,129,193 9,779,335	2008-09-16 2011-10-04 2010-12-28 2015-09-08 2017-10-03	DEVICES  METHODS AND APPARATUS FOR COLORIMETRICALLY CHARACTERIZING COLOR DEVIATION IN COLOR IMAGING DEVICES  METHODS AND APPARATUS FOR DYNAMICALLY SOFT PROOFING HALFTONE IMAGES  METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA METHODS AND APPARATUS FOR MEDIA SELECTION IN CLUSTERING PRINTING SYSTEMS	Issued Issued Issued Issued	Utility Utility Utility Utility Utility Utility
110656-8555.US02 110656-8556.US01 110656-8557.US01 110656-8557.US02	United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America	10/744,207 11/748,277 10/404,972 10/449,559 12/948,502 14/805,396	2007-05-14 2003-03-31 2003-05-29 2010-11-17 2015-07-21	7,426,033 8,031,363 7,861,156 9,129,193 9,779,335	2008-09-16 2011-10-04 2010-12-28 2015-09-08 2017-10-03	DEVICES  METHODS AND APPARATUS FOR COLORIMETRICALLY CHARACTERIZING COLOR DEVIATION IN COLOR IMAGING DEVICES  METHODS AND APPARATUS FOR DYNAMICALLY SOFT PROOFING HALFTONE IMAGES  METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA METHODS AND APPARATUS FOR MEDIA SELECTION IN CLUSTERING PRINTING SYSTEMS METHODS AND APPARATUS FOR MEDIA SELECTION IN CLUSTER	Issued Issued Issued Issued	Utility Utility Utility Utility Utility Utility
110656-8555.US02 110656-8556.US01 110656-8557.US01 110656-8557.US02 110656-8557.US03	United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America	10/744,207 11/748,277 10/404,972 10/449,559 12/948,502 14/805,396 10/610,128 10/980,530	2007-05-14 2003-03-31 2003-05-29 2010-11-17 2015-07-21 2003-06-30	7,426,033 8,031,363 7,861,156 9,129,193 9,779,335 6,962,449	2008-09-16  2011-10-04  2010-12-28  2015-09-08  2017-10-03	DEVICES  METHODS AND APPARATUS FOR COLORIMETRICALLY CHARACTERIZING COLOR DEVIATION IN COLOR IMAGING DEVICES  METHODS AND APPARATUS FOR DYNAMICALLY SOFT PROOFING HALFTONE IMAGES METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA METHODS AND APPARATUS FOR MEDIA SELECTION IN CLUSTERING PRINTING SYSTEMS METHODS AND APPARATUS FOR MEDIA SELECTION IN CLUSTER PRINTING SYSTEMS METHODS AND APPARATUS FOR MEDIA SELECTION IN CLUSTER PRINTING SYSTEMS	Issued Issued Issued Issued	Utility Utility Utility Utility Utility Utility Utility
110656-8555.US02 110656-8556.US01 110656-8557.US02 110656-8557.US03 110656-8558.US01 110656-8558.US02	America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America	10/744,207 11/748,277 10/404,972 10/449,559 12/948,502 14/805,396 10/610,128	2007-05-14 2003-03-31 2003-05-29 2010-11-17 2015-07-21 2003-06-30 2004-11-03	7,426,033 8,031,363 7,861,156 9,129,193 9,779,335 6,962,449 6,974,269	2008-09-16  2011-10-04  2010-12-28  2015-09-08  2017-10-03  2005-11-08	DEVICES  METHODS AND APPARATUS FOR COLORIMETRICALLY CHARACTERIZING COLOR DEVIATION IN COLOR IMAGING DEVICES  METHODS AND APPARATUS FOR DYNAMICALLY SOFT PROOFING HALFTONE IMAGES METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA METHODS AND APPARATUS FOR MEDIA SELECTION IN CLUSTERING PRINTING SYSTEMS METHODS AND APPARATUS FOR MEDIA SELECTION IN CLUSTER PRINTING SYSTEMS METHODS AND APPARATUS FOR MEDIA SELECTION IN CLUSTER PRINTING SYSTEMS METHODS AND APPARATUS FOR MEDIA SELECTION IN CLUSTER PRINTING SYSTEMS	Issued Issued Issued Issued Issued	Utility Utility Utility Utility Utility Utility Utility Utility
110656-8555.US02 110656-8556.US01 110656-8557.US01 110656-8557.US02 110656-8557.US03	America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America	10/744,207 11/748,277 10/404,972 10/449,559 12/948,502 14/805,396 10/610,128 10/980,530	2007-05-14 2003-03-31 2003-05-29 2010-11-17 2015-07-21 2003-06-30	7,426,033 8,031,363 7,861,156 9,129,193 9,779,335 6,962,449	2008-09-16  2011-10-04  2010-12-28  2015-09-08  2017-10-03	DEVICES  METHODS AND APPARATUS FOR COLORIMETRICALLY CHARACTERIZING COLOR DEVIATION IN COLOR IMAGING DEVICES  METHODS AND APPARATUS FOR DYNAMICALLY SOFT PROOFING HALFTONE IMAGES  METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA METHODS AND APPARATUS FOR MEDIA SELECTION IN CLUSTERING PRINTING SYSTEMS  METHODS AND APPARATUS FOR MEDIA SELECTION IN CLUSTER PRINTING SYSTEMS  METHODS AND APPARATUS FOR MEDIA SELECTION IN CLUSTER PRINTING SYSTEMS	Issued Issued Issued Issued	Utility Utility Utility Utility Utility Utility Utility
110656-8555.US02 110656-8556.US01 110656-8557.US02 110656-8557.US03 110656-8558.US01 110656-8558.US02	America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America	10/744,207 11/748,277 10/404,972 10/449,559 12/948,502 14/805,396 10/610,128 10/980,530 11/299,435	2007-05-14 2003-03-31 2003-05-29 2010-11-17 2015-07-21 2003-06-30 2004-11-03	7,426,033 8,031,363 7,861,156 9,129,193 9,779,335 6,962,449 6,974,269	2008-09-16  2011-10-04  2010-12-28  2015-09-08  2017-10-03  2005-11-08	DEVICES  METHODS AND APPARATUS FOR COLORIMETRICALLY CHARACTERIZING COLOR DEVIATION IN COLOR IMAGING DEVICES  METHODS AND APPARATUS FOR DYNAMICALLY SOFT PROOFING HALFTONE IMAGES METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA METHODS AND APPARATUS FOR PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA PARALLEL PROCESSING PAGE DESCRIPTION LANGUAGE DATA METHODS AND APPARATUS FOR MEDIA SELECTION IN CLUSTERING PRINTING SYSTEMS METHODS AND APPARATUS FOR MEDIA SELECTION IN CLUSTER PRINTING SYSTEMS METHODS AND APPARATUS FOR MEDIA SELECTION IN CLUSTER PRINTING SYSTEMS METHODS AND APPARATUS FOR MEDIA SELECTION IN CLUSTER PRINTING SYSTEMS	Issued Issued Issued Issued Issued	Utility Utility Utility Utility Utility Utility Utility Utility

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	United States of				Į	METHODS AND APPARATUS FOR SECURELY TRANSMITTING AND		
110656-8560,US01	America	09/753,816	2001-01-03	6,647,149	2003-11-11	PROCESSING DIGITAL IMAGE DATA	Issued	Utility
						METHODS AND APPARATUS FOR	1,200.00	- Cunty
	United States of					REPAIRING INOPERATIVE PIXELS IN		
110656-8561.US01	America	09/748,623	2000-12-22	7,280,090	2007-10-09	A DISPLAY	Issued	Utility
						METHODS AND APPARATUS FOR		
	United States of	1				REPAIRING INOPERATIVE PIXELS IN		
110656-8561.US02	America	11/842,672	2007-08-21	7,911,432	2011-03-22	A DISPLAY	Issued	Utility
	11-14 64-4 6					METHODS AND APPARATUS FOR		
110656-8561.US03	United States of America	11/842,691	2007-08-21	7,911,433	2011-03-22	REPAIRING INOPERATIVE PIXELS IN A DISPLAY	ļ 1	
110030-8301.0303	America	11/642,031	2007-08-21	7,511,433	2011-03-22	A DISPLAT	Issued	Utility
	United States of				ļ	METHOD AND APPARATUS FOR		
110656-8566.US01	America	09/216,355	1998-12-18	6,546,364	2003-04-08	CREATING ADAPTIVE WORKFLOWS	Issued	Utility
						ITERATIVE CONSTRAINT		1
						COLLECTION SCHEME FOR		
	United States of					PREPARATION OF CUSTOM	1	
110656-8568.U501	America	09/328,983	1999-06-09	7,587,336	2009-09-08	MANUFACTURING CONTRACTS	Issued	Utility
						METHOD AND APPARATUS FOR		
 	United States of					CUSTOMIZED HOSTED	ļ	
110656-8569.US01	America	09/718,788	2000-11-22	6,662,199	2003-12-09	APPLICATIONS	Issued	Utility
	11-34-3 54-4	]				METHODS AND APPARATUS FOR		
110656-8575.US01	United States of	09/8/0 202	2001-05-04	6 520 222	2002-03-25	CORRECTING SPECTRAL COLOR		LIANCA.
110030-83/3.USU1	America	09/849,282	2001-05-04	6,539,323	2003-03-25	MEASUREMENTS METHOD AND APPARATUS TO	Issued	Utility
						PERMIT EFFICIENT MULTIPLE		
	United States of					PARALLEL IMAGE PROCESSING OF		
110656-8576.US01	America	09/438,228	1999-11-12	6,825,943	2004-11-30	LARGE JOBS	Issued	Utility
	United States of			1		APPARATUS AND METHODS FOR	1	- Cliney
110656-8576.US02	America	11/358,770	2006-02-21	7,233,409	2007-06-19	DISTRIBUTING PRINT JOBS	Issued	Utility
	United States of					APPARATUS AND METHODS FOR		
110656-8576.US03	America	11/764,348	2007-06-18	7,466,441	2008-12-16	DISTRIBUTING PRINT JOBS	Issued	Utility
	United States of					METHOD AND APPARATUS FOR		
110656-8576.US04	America	09/861,021	2001-05-18	7,099,027	2006-08-29	DISTRIBUTING PRINT JOBS	Issued	Utility
******	United States of	00/705 407				METHODS AND APPARATUS FOR		
110656-8580.US01	America	09/705,407	2000-11-03	6,753,845	2004-06-22	ADDRESSING PIXELS IN A DISPLAY	Issued	Utility
	United States of					DIRECTORY SERVER FOR AUTOMATIC NETWORK		
110656-8581.US01	America	10/808,743	2004-03-24	8,205,012	2012-06-19	INFORMATION ACCESS SYSTEMS	Issued	1 trilieu
110000 0301.0001	7	20,000,710	12001 00 21	10,203,012	12012 00 13	DIRECTORY SERVER FOR	133000	Utility
	United States of					AUTOMATIC NETWORK		
110656-8581.US02	America	13/526,338	2012-06-18	8,595,384	2013-11-26	INFORMATION ACCESS SYSTEMS	Issued	Utility
						DIRECTORY SERVER FOR		
	United States of					AUTOMATIC NETWORK		
110656-8581.US03	America	14/081,874	2013-11-15	9,137,208	2015-09-15	INFORMATION ACCESS SYSTEMS	Issued	Utility
	l					METHODS AND APPARATUS FOR		
******	United States of					LAYOUT OF MULTI-LAYER CIRCUIT		
110656-8582.US01	America	12/027,146	2008-02-06	7,996,806	2011-08-09	SUBSTRATES	Issued	Utility
110656-8583,US01	United States of America	10/928,966	2004-08-27	8,171,103	2012-05-01	METHODS AND APPARATUS FOR PROVIDING ACCESS TO CONTENT		t teitie.
110050-8385,0301	United States of	<del></del>	2004-08-27	8,171,103	2012-03-01	METHODS AND APPARATUS FOR	Issued	Utility
110656-8583.US02	America	13/430,506	2012-03-26	8,484,316	2013-07-09	PROVIDING ACCESS TO CONTENT	Issued	Utility
		,,		9,101,010	2020 07 05	COLOR MEASUREMENT	133464	Othry
						INSTRUMENT WITH ASYMMETRIC		
	United States of					TAPERED SAMPLE AREA OPTICAL		
110656-8591.US01	America	09/505,642	2000-02-16	6,369,895	2002-04-09	ENCLOSURE	Issued	Utility
	United States of	i				METHOD FOR DETERMINING		
110656-8592.US01	America	09/327,386	1999-06-07	6,381,036	2002-04-30	PRINTER COLORANT LEVELS	Issued	Utility
	11-14-1-5					METHOD AND APPARATUS FOR		
1106E6 BEG3 USG4	United States of		1,000 63 65	5 041 222	2000 02 22	SPLIT PRINTING OF COLOR AND		
110656-8593.US01	America United States of	09/264,287	1999-03-08	6,041,200	2000-03-21	MONOCHROME DOCUMENTS	Issued	Utility
110656-8594.US01	America	12/722,064	2010-03-11	8,885,181	2014-11-11	VIDTUAL PRESS BLIN	leeuad	Lieilieu
110000-0004.0001	United States of	12/122,004	2010-03-11	0,003,181	2014-11-11	VIRTUAL PRESS RUN	Issued	Utility
110656-8598.US01	America	12/775,309	2010-05-06	8,934,119	2015-01-13	GREENBOOKS	Issued	Utility
		., ,		1		JOB BASED CALIBRATION.		
	United States of					CALIBRATION GUARD, AND PROFILE		
110656-8599.US01	America	13/014,620	2011-01-26	8,610,932	2013-12-17	ADVISOR	Issued	Utility
	United States of					AUTOMATED PRINTER'S		<del>                                     </del>
110656-8602.US01	America	13/876,457	2011-09-30	9,158,479	2015-10-13	DASHBOARD	Issued	Utility
						PROTOCOL FOR INTERACTION		
	United States of		l	1		BETWEEN WIRELESS DEVICES AND		
110656-8603.US01		13/100,117	2011-05-03	9,891,867	2018-02-13	OTHER DEVICES	Issued	Utility
	United States of	4 D / D /				METHOD AND APPARATUS FOR		l
				111 22C ACC	2016-05-10	COLOR PRINT MANAGEMENT	Issued	Utility
110656-8604.US01	America	13/843,768	2013-03-15	9,336,465	2010 03 10		133000	
110656-8604.US01 110656-8604.US02	United States of	15/150,184	2016-05-09	9,330,403	2010 03 10	METHOD AND APPARATUS FOR COLOR PRINT MANAGEMENT	Pending	Utility

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10056-800 USD							DYNAMIC IMAGE GAMUT		
10656-8661,USD    107656-8661,USD    107666,USD    1					-	İ			
1,0056-8006,1301   America   13/28,009   2011-10-31   840,0076   2014-09-31   AMOLE CONSTANT   Insued Curity   Control Contr		United States of	,					İ	
10656-8668 U501   America   13/286,089   2011-10-31   9-20,148   2016-68-30   2014-09   2016-68-30   2014-09   2016-68-30   2014-09   2016-68-30	110656-8605,US01		1	2011-10-31	8,810,876	2014-08-19		Issued	Litility
10656-8608 USD   United States of   13/286,009   2011-10-31   9,420,146   2016-06-16   2016-06									- Cincy
10656-806LUSD    2016				ļ			CONTROLLING THE COLOR		
10656-850 U501		1			İ				
110656-8607 USD1	110656-9606   1501	1	1	2011 10 21	0.430.146	2016 00 16			
130956-8607.USD    United States of   13793,446   2011-01-29   9,049,409   2015-06-20   UNIS   UNI	110030-8000.0301	America	13/286,009	2011-10-31	9,420,146	2016-08-16	···	Issued	Utility
10656-8607.USD    United States of   13/73,446   2013-01-79   9,049,403   2015-06-07   MRFTHOD AND APPRARTUS FOR   MRFTHOD AND APPRARTUS FOR   United States of   14/151,709   2014-01-09   10,056,549   2015-06-07   MRFTHOD AND APPRARTUS FOR   MRFTHOD AND APPRARTUS MRFTHOD AND APPR				1	1		1		
110656-8608.U501		United States of							
United States of   1/056-860.USD  America   1/057.880   2015-10-07   9793.378   2017-10-17   SHETS	1106S6-8607.US01	America	13/753,446	2013-01-29	9,049,403	2015-06-02	LINES	Issued	Utility
10656-8608.USD    United States of   1/251,793   2014-01-99   10,054,549   2018-08-11   VARIOUS CALAUTIES OF PRINTED   Insued   Utility   VARIOU							METHOD AND APPARATUS FOR		
1.0856-8608.USD    America		11-15-15					1		
110856-8608-US92	110656-9609   1501	ľ	1	2014 01 00	10.054.540	2010 00 21	•	l	
United States of   14/877,880   2015-10-07   9,791,378   2017-10-17   9,791,378   2017-10-17   9,791,378   2017-10-17   9,791,378   2017-10-17   9,791,378   2017-10-17   9,791,378   2017-10-17   9,791,378   2017-10-17   9,791,378   2017-10-17   9,791,378   2017-10-17   9,791,378   2017-10-17   9,791,378   2017-10-17   9,791,378   2017-10-17   9,791,378   2017-10-17   9,791,378   2017-10-17   9,791,378   2017-10-17   2018-01-05   9,791,378   2017-10-17   2018-01-05   9,791,378   2017-10-17   2018-01-05   9,791,378   2017-10-17   2018-01-05   9,791,378   2017-10-17   2018-01-05   9,791,378   2017-10-17   2018-01-05   9,791,378   2017-10-17   2018-01-05   9,791,378   2017-10-17   2018-01-05   9,791,378   2017-10-17   2018-01-05   2018-01	110030 8008.0301	America	14/151,703	2014-01-03	10,034,349	2018-08-21		Issued	Utility
United States of   1/877,890   2015-10-07   3,791,378   2017-10-17   SHEETS   INSERT SHEETS									
United States of   1,0656-8610.USDI   United States of   1,0656-8610.USDI   United States of   1,0656-8610.USDI   United States of   1,0656-8610.USDI   United States of   1,0656-8610.USDI   United States of   1,0656-8610.USDI   United States of   1,0656-8610.USDI   America   13,693,774   2013-09-20   8,927,702   2015-09-20   2015-09-20   2		United States of					1		
1,0656-8609_USD1	110656-8608.US02	America	14/877,880	2015-10-07	9,791,378	2017-10-17	SHEETS	Issued	Utility
United States of   America   13/85,775   2013-09-20   8,947,702   2015-09-20   8,947,702   2015-09-20   8,947,702   2015-09-20   8,947,702   2015-09-20   8,947,702   2015-09-20   8,947,702   2015-09-20   8,947,702   2015-09-20   8,947,702   2015-09-20   8,947,702   2015-09-20   8,947,702   2015-09-20   8,947,702   2015-09-20   8,947,702   2015-09-20   8,947,702   2015-09-20   8,947,702   2015-09-20   8,947,702   2015-09-20   8,947,702   2015-09-20   8,947,702   2015-09-20   8,947,702   2015-09-20   8,948,823   2014-12-30   7,444,801.85							,		
Lib656-8601.USD    James States of   James Sta				l			1		
110656-8619.USD		United States of					'		1
United States of   13/237,785   2011-09-20   8,947,702   2015-02-03   ENGINE OPTIMIZATION   Issued   Unitity   United States of   13/231,785   2011-09-20   8,922,818   2014-12-30   MOBILE PRINT EMAIL REFLY WITH   Issued   Unitity   United States of   13/251,025   2013-03-26   8,922,818   2014-12-30   MOBILE PRINT EMAIL REFLY WITH   Issued   Unitity   United States of   13/251,025   2013-03-26   8,922,818   2014-12-30   MOBILE PRINT EMAIL REFLY WITH   Issued   Unitity   United States of   13/251,025   2013-03-26   8,922,818   2013-10-08   MOBILE PRINT EMAIL REFLY WITH   Issued   Unitity   United States of   13/251,035   2012-09-12   9,246,823   2013-10-08   DEVICE DISCOVERY USING   United States of   13/252,535   2012-09-12   9,948,823   2018-04-17   880ADGAST TECHNOLOGY   Issued   Unitity   United States of   13/257,491   2012-11-02   8,861,053   2014-10-14   Chryw Epith To And Parkariton Or A   WHITE IMPRESEARATION OUT OF   Chryw Epith To And Parkariton Or A   WHITE IMPRESEARATION OUT OF   Chryw Epith To And Parkariton Or A   United States of   13/257,491   2012-03-29   9,227,428   2016-01-55   SIMULATED EMBOSING AND   Individual Larker   13/259,015   2012-03-99   9,227,428   2016-01-55   SIMULATED EMBOSING AND   Individual Larker   13/259,298   2012-03-29   9,227,428   2016-01-55   MERRINO AND APPRARATUS FOR   Auditor   13/259,298   2012-03-29   9,227,428   2016-01-55   MERRINO AND APPRARATUS FOR   Chryw Epith To And And And And And And And And And And	110656-8609.US01		13/945 771	2013-07-18	9 232 112	2016-01-05			I settle
United States of 1,0556-8613_USD1				12013 07 15	3,232,112	2018-01-03	IVIAPPING IIV COLOR PRINTING	issued	Othity
United States of 1,0656-8611.US01	110656-8610.US01	America	13/237,785	2011-09-20	8,947,702	2015-02-03	ENGINE OPTIMIZATION	Issued	Utility
United States of   1,0656-8612,US01   United States of   1,3/490,374   2012-06-06   8,553,286   2013-10-06   INDEED BY CODE   Issued   Utility   Utility   Indeed States of   1,3/490,374   2012-06-06   8,553,286   2013-10-06   INDEED BY CODE   Issued   Utility   Utility   Indeed States of   1,3/490,374   2012-06-12   9,948,823   2018-06-17   ROADCAST TECHNOLOGY   Issued   Utility   Utility   Indeed States of   1,5/76,555   2016-03-21   9,948,823   2018-06-17   ROADCAST TECHNOLOGY   Issued   Utility   Utility   Indeed States of   1,3/49,755   2016-03-21   9,948,823   2018-06-17   ROADCAST TECHNOLOGY   Issued   Utility   Indeed States of   1,3/49,745   2016-03-22   ROADCAST TECHNOLOGY   Issued   Utility   Indeed States of   1,3/49,745   2016-03-22   ROADCAST TECHNOLOGY   Issued   Utility   Indeed States of   1,3/49,745   2016-03-21   1,3/49,745   2016-03-22   ROADCAST TECHNOLOGY   Issued   Utility   Indeed States of   1,3/49,745   2016-03-22   ROADCAST TECHNOLOGY   Issued   Utility   Indeed States of   1,3/49,745   2016-03-22   ROADCAST TECHNOLOGY   Issued   Utility   Indeed States of   1,3/49,745   2016-03-22   ROADCAST TECHNOLOGY   Issued   Utility   Indeed States of   1,3/49,745   2018-03-24   2016-03-25   ROADCAST TECHNOLOGY   Issued   Utility   Indeed States of   1,3/49,745   2018-03-24   2016-03-25   ROADCAST TECHNOLOGY   Issued   Utility   Indeed States of   1,3/49,745   2018-03-24   2016-03-25   ROADCAST TECHNOLOGY   Issued   Utility   Indeed States of   1,3/49,745   2018-03-24   2		<b>I</b>							
LindeS-8612_USD  America   13/490,374   2012-06-06   8,553,286   2013-10-08   INDEXED BY CODE   Issued   Utility   IndeS-8614_USD    United States of   13/612,553   2012-09-12   9,294,574   2016-03-22   DEVICE DISCOVERY USING   Issued   Utility   IndeS-8614_USD    America   13/612,553   2012-09-12   9,294,574   2016-03-22   DEVICE DISCOVERY USING   Issued   Utility   Issued   Utility   IndeS-8614_USD    America   13/612,553   2012-09-12   9,294,574   2016-03-22   DEVICE DISCOVERY USING   Issued   Utility   Issued   Uti	110656-8611.US01	America	13/851,025	2013-03-26	8,922,818	2014-12-30	THUMBNAILS	Issued	Utility
1.0656-8612.US01		11.35.155.4							
United States of   13/612,353   2012-09-12   9,294,574   2016-03-22   8RADACAST TECHNOLOGY United States of   13/612,353   2012-09-12   9,294,574   2016-03-22   8RADACAST TECHNOLOGY UNITED   15/040,000   15/040,	110656.9612 1/501	1		2012 05 05	0.553.305	2012 10 00			
10656-8614.USO1	110030-8012.0301		13/430,374	2012-06-06	8,553,286	2013-10-08		Issued	Utility
United States of   1,0656-8615.USD  America   13/697,491   2012-11-02   8,861,053   2014-10-14   METHOD AND APPARATUS FOR AUTOMATED GENERATION OF PAY WHITE INK SPRANTING PAY PAY WHITE PAY WHITE PAY WHITE PAY PAY PAY PAY PAY PAY PAY PAY PAY PAY	110656-8614.US01	1	13/612,353	2012-09-12	9.294.574	2016-03-22		Issued	Litility
10656-8614,US02		United States of		1				133060	Othicy
United States of   13/667,491   2012-11-02   8,861,053   2014-10-14   METHOD AND APPARATUS FOR A WHITE INK SEPARATION OUT OF CMYK DATA OR RGS PIRIND FOR A WHITE INK SEPARATION OUT OF CMYK DATA OR RGS PIRIND FOR A WHITE INK SEPARATION OUT OF CMYK DATA OR RGS PIRIND FOR CREATING AD IMPRISON OUT OF CMYK DATA OR RGS PIRIND FOR CREATING AD IMPRISON OUT OF CMYK DATA OR RGS PIRIND FOR CREATING AD IMPRISON OUT OF CMYK DATA OR RGS PIRIND FOR AD IMAGE FILE ISSUED Utility   110656-8618.USD1   Merica   13/609,015   2012-08-30   9,227,428   2017-01-01   SIMULATED EMBOSSING AND IMPRISTING METHOD AND APPARATUS FOR ADMINISOR OUT OF CREATING AD IMPRISTING METHOD AND APPARATUS FOR CREATING AD IMPRISTING METHOD AND APPARATUS FOR ADMINISOR OUT OF CREATING AD IMPRISTING METHOD AND APPARATUS FOR ADMINISOR OUT OF CREATING ADMINISOR OUT OF CREATING ADMINISOR OUT OF CREATING ADMINISOR OUT OF CREATING ADMINISOR OUT OF CREATING ADMINISOR OUT OF CREATING ADMINISOR OUT OF CREATING ADMINISOR OUT OF CREATING ADMINISOR OUT OF COLOR METHOD AND APPARATUS FOR CREATING ADMINISOR OUT OF COLOR METHOD AND APPARATUS FOR CREATING ADMINISOR OUT OF COLOR METHOD AND APPARATUS FOR CREATING ADMINISOR OUT OF CREAT	110656-8614.US02	America	15/076,555	2016-03-21	9,948,823	2018-04-17	1	Issued	Utility
United States of America   13/667,491   2012-11-02   8,851,053   2014-10-14   METHOD AND APPARATUS FOR CREATING A DIMENSIONAL LAYER   Issued   Utility   Children   Comment							METHOD AND APPARATUS FOR		
10656-8615.US01									
United States of	110656-8615 US01		13/667 /01	2012.11.02	9 961 063	2014 10 14	1	ļ	l
United States of   America   13/738,776   2013-01-10   9,786,094   2017-10-10   FOR AN IMAGE FILE   Issued   Utility   Utili	110030 8013.0301	America	13/007,431	2012-11-02	8,861,033	2014-10-14		Issued	Utility
10656-8616.USD1   America   13/738,776   2013-01-10   9,786,094   2017-10-10   FOR AN IMAGE FILE   Issued   Utility		United States of					l		
United States of   13/600,015   2012-08-30   9,227,428   2016-01-05   IMPRINTING   IMPRINTING   Imprinting   United States of   13/629,298   2012-09-27   9,952,539   2018-02-42   VARIABLE GLOSS REDUCTION   Issued   Utility   United States of   14/054,711   2013-10-15   10,114,307   2018-10-30   VARIABLE GLOSS REDUCTION   Issued   Utility   United States of   14/150,527   2014-01-08   9,302,490   2016-04-05   IMPRINTING   Issued   Utility   Utility   United States of   14/150,527   2014-01-08   9,302,490   2016-04-05   IMPRINTING   Issued   Utility   Utility   United States of   14/150,527   2014-01-08   9,302,490   2016-04-05   IMPRINTING   Issued   Utility   Utility   United States of   14/150,527   2014-01-08   9,694,597   2017-07-04   United States of   14/150,527   2014-01-08   9,694,597   2017-07-04   United States of   14/150,527   2017-07-03   United States of   14/150,527   2018-04-04   9,694,597   2017-07-04   United States of   14/150,527   2018-04-04   9,694,597   2017-07-04   United States of   14/150,527   2018-04-04   9,694,597   2017-07-04   United States of   14/150,527   2018-04-04   9,126,420   2015-09-08   Utility Rewrite Printing   Utility   United States of   14/150,527   2018-04-04   9,126,420   2015-09-08   Utility Rewrite Printing   Utility   United States of   14/150,527   2018-04-05   9,195,916   2015-09-08   Utility   2016-08-16   2	110656-8616.US01	America	13/738,776	2013-01-10	9,786,094	2017-10-10		Issued	Utility
United States of America   13/629,298   2012-09-27   9,952,539   2018-04-24   VARIABLE GLOSS REDUCTION   Issued   Utility   VARIABLE GLOSS REDUCTION   Issued   Utility   VARIABLE GLOSS REDUCTION   Issued   Utility   VARIABLE GLOSS REDUCTION   Issued   Utility   VARIABLE GLOSS REDUCTION   Allowed   Utility   Utility   VARIABLE GLOSS REDUCTION   Allowed   Utility   Utility   VARIABLE GLOSS REDUCTION   Allowed   Utility   Utility   VARIABLE GLOSS REDUCTION   Allowed   Utility   Utility   VARIABLE GLOSS REDUCTION   Allowed   Utility   Utility   VARIABLE GLOSS REDUCTION   Allowed   Utility   Utility   VARIABLE GLOSS REDUCTION   Allowed   Utility   Utility   VARIABLE GLOSS REDUCTION   Utility   Utility   VARIABLE GLOSS REDUCTION   Utility   Utility   VARIABLE GLOSS REDUCTION   Utility   Utility   VARIABLE GLOSS REDUCTION   Utility   Utility   VARIABLE GLOSS REDUCTION   Utility   Utility   VARIABLE GLOSS REDUCTION   Utility   Utility   VARIABLE GLOSS REDUCTION   Utility   Utility   VARIABLE GLOSS REDUC		1 1					SIMULATED EMBOSSING AND		
10656-8618.US01	110656-8617.US01		13/600,015	2012-08-30	9,227,428	2016-01-05		Issued	Utility
United States of America 14/054,711 2013-10-15 10,114,307 2018-10-30 VARIABLE GLOSS REDUCTION Allowed Utility VARIABLE GLOSS REDUCTION Allowed Utility VARIABLE GLOSS REDUCTION Allowed Utility VARIABLE GLOSS REDUCTION Allowed Utility VARIABLE GLOSS REDUCTION Allowed Utility VARIABLE GLOSS REDUCTION Allowed Utility VARIABLE GLOSS REDUCTION Allowed Utility WARIABLE GLOSS REDUCTION MULTILAYER WHITE PRINTING WITH WHITE-BALANCE Issued Utility WITH WHITE-BALANCE Issued Utility WITH WHITE-BALANCE WITH WHITE PRINTING WITH WHITE-BALANCE WITH WHITE PRINTING WITH WHITE-BALANCE WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE WITH WHITE PRINTING WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE WITH WHITE PRINTING WITH WHITE-BALANCE Pending Utility WHITE WHITE PRINTING WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE WITH WHITE PRINTING WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE Pending WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE WITH WHITE-BALANCE WITH WHITE-BALANCE Pending Utility WITH WHITE-BALANCE WITH WHITE-BALANCE WITH WHITE-BALANCE Pending WITH WHITE-BALANCE Pending WITH WHITE-BALANCE WITH WHITE-BALANCE Pending WITH WHITE-BALANCE Pending WITH WHITE-BALANCE Pending WITH WHITE-BALANCE Pending WITH WHITE-BALA	110655 8518 1/501	1 1	12/520 200	2012 00 27	0.050.500				
10656-8618.US02	110030-8018.0301		13/029,296	2012-09-27	9,952,539	2018-04-24		Issued	Utility
110656-8619.US01	110656-8618.US02	1 3	14/054,711	2013-10-15	10.114.307	2018-10-30		Allowed	Heilieu
10656-8619.US01			· · · · · · · · · · · · · · · · · · ·					Allowed	Othity
United States of   15/090,310   2016-04-04   9,694,597   2017-07-04   WITH WHITE PRINTING   Issued   Utility   Uti	110656-8619.US01	America	14/150,527	2014-01-08	9,302,490	2016-04-05	1	Issued	Utility
United States of America   15/641,110   2017-07-03		1 1					MULTILAYER WHITE PRINTING		
110656-8619.US03	110656-8619.US02	4	15/090,310	2016-04-04	9,694,597	2017-07-04		Issued	Utility
United States of America   13/909,854   2013-06-04   9,126,420   2015-09-08   MULTI-LAYER PRINTING ON NON-WHITE BACKGROUNDS   Issued   Utility	110656 8610 11502	1	15/6/1 110	2017.07.02	ļ		1		
110656-8623.US01	110030-8013,0303	<del></del>	13/041,110	2017-07-03	<u> </u>	ļ		Pending	Utility
United States of 10656-8623.US01 America 13/756,351 2013-01-31 9,417,829 2016-08-16 MONITORING IN INKJET DEVICES Issued Utility  United States of 110656-8625.US01 America 14/296,870 2014-06-05 9,195,916 2015-11-24 PRINTING COLOR PREDICTION FOR COLOR PRINTING INKJET DEVICES Issued Utility  United States of America 10/899,267 2004-07-26 7,396,864 2008-07-08 METHOD OF PRINTING Issued Utility  United States of 10/944,956 2004-09-20 7,064,153 2006-06-20 CONTENT ISSUED UTILITY  United States of America 10/944,943 2004-09-20 7,105,585 2006-09-12 NONPOROUS SUBSTRATES ISSUED Utility  United States of 11/519,432 2006-09-12 7,891,799 2011-02-22 APPLICATIONS ISSUED Utility  United States of SYSTEM FOR GRAPHICS America 11/519,432 2011-02-18 8,192,010 2012-06-05 APPLICATIONS ISSUED Utility  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS ISSUED Utility  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS ISSUED Utility  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS ISSUED Utility  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS ISSUED Utility  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS ISSUED Utility  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS ISSUED Utility  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS ISSUED Utility	110656-8620.US01	l I	13/909,854	2013-06-04	9,126,420	2015-09-08	1	Issued	Utility
110656-8623.US01		<del> </del>	····	<b></b>	T	<del></del>			1 Contraction
United States of   14/296,870   2014-06-05   9,195,916   2015-11-24   PRINTING   Issued   Utility	110656-8623.US01	<del>                                     </del>	13/756,351	2013-01-31	9,417,829	2016-08-16	i e	Issued	Utility
United States of 10/899,267 2004-07-26 7,396,864 2008-07-08 METHOD OF PRINTING Issued Utility  United States of 10/944,956 2004-09-20 7,064,153 2006-06-20 CONTENT ISSUED UTILITY  United States of 10/944,943 2004-09-20 7,105,585 2006-09-12 NONPOROUS SUBSTRATES ISSUED UTILITY  United States of 11/519,432 2006-09-12 7,891,799 2011-02-22 APPLICATIONS ISSUED UTILITY  United States of 11/519,432 2006-09-12 7,891,799 2011-02-22 APPLICATIONS ISSUED UTILITY  United States of 11/519,432 2011-02-18 8,192,010 2012-06-05 APPLICATIONS ISSUED UTILITY  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS ISSUED UTILITY  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS ISSUED UTILITY  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS ISSUED UTILITY  METALLIC INK JET PRINTING ISSUED UTILITY  METALLIC INK JET PRINTING ISSUED UTILITY  METALLIC INK JET PRINTING ISSUED UTILITY  METALLIC INK JET PRINTING ISSUED UTILITY  METALLIC INK JET PRINTING ISSUED UTILITY  METALLIC INK JET PRINTING ISSUED UTILITY  METALLIC INK JET PRINTING	440446	1					1		
110656-8637.US01 America 10/899,267 2004-07-26 7,396,864 2008-07-08 METHOD OF PRINTING Issued Utility  United States of 10/944,956 2004-09-20 7,064,153 2006-06-20 CONTENT ISSUED Utility  United States of 10/944,943 2004-09-20 7,105,585 2006-09-12 NONPOROUS SUBSTRATES ISSUED Utility  United States of 11/519,432 2006-09-12 7,891,799 2011-02-22 APPLICATIONS ISSUED Utility  United States of 11/519,432 2011-02-18 8,192,010 2012-06-05 APPLICATIONS ISSUED Utility  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS ISSUED Utility  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS ISSUED Utility  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS ISSUED Utility  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS ISSUED Utility  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS ISSUED Utility  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS ISSUED Utility  METALLIC INK JET PRINTING UTILITY  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS ISSUED UTILITY  METALLIC INK JET PRINTING UTILITY  METALLIC INK JET PRINTING UTILITY  METALLIC INK JET PRINTING UTILITY  METALLIC INK JET PRINTING	11U656-8625.US01		14/296,870	2014-06-05	9,195,916	2015-11-24	ļ	Issued	Utility
United States of 10/944,956 2004-09-20 7,064,153 2006-06-20 CONTENT Issued Utility  United States of 10/944,943 2004-09-20 7,105,585 2006-09-12 NONPOROUS SUBSTRATES Issued Utility  United States of 10/944,943 2004-09-20 7,105,585 2006-09-12 NONPOROUS SUBSTRATES Issued Utility  United States of 11/519,432 2006-09-12 7,891,799 2011-02-22 APPLICATIONS Issued Utility  United States of 11/519,432 2006-09-12 7,891,799 2011-02-22 APPLICATIONS Issued Utility  United States of 11/519,432 2011-02-18 8,192,010 2012-06-05 APPLICATIONS Issued Utility  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS Issued Utility  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS Issued Utility  METALLIC INK JET PRINTING Issued Utility  METALLIC INK JET PRINTING	110656-8637 US01	i	10/899 267	2004-07-26	7 305 051	2000 07 00	ł		
United States of America   10/944,956   2004-09-20   7,064,153   2006-06-20   2006-06-20   CONTENT   Issued   Utility			,,	2007-07-20	1,550,604	2000-07-08		issued	Utility
110656-8638.US01		United States of		]					
United States of America 10/944,943 2004-09-20 7,105,585 2006-09-12 NONPOROUS SUBSTRATES Issued Utility  United States of United States of America 11/519,432 2006-09-12 7,891,799 2011-02-22 APPLICATIONS Issued Utility  United States of America 13/030,368 2011-02-18 8,192,010 2012-06-05 APPLICATIONS Issued Utility  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS Issued Utility  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS Issued Utility  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS Issued Utility  METALLIC INK JET PRINTING	110656-8638.US01	America	10/944,956	2004-09-20	7,064,153	2006-06-20		Issued	Utility
United States of 11/519,432 2006-09-12 7,891,799 2011-02-22 APPLICATIONS Issued Utility  United States of 13/030,368 2011-02-18 8,192,010 2012-06-05 APPLICATIONS Issued Utility  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS Issued Utility  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS Issued Utility  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS APPLICATIONS Issued Utility	-	1					UV CURE INK JET INK FOR		<del></del>
United States of   11/519,432   2006-09-12   7,891,799   2011-02-22   APPLICATIONS   Issued   Utility	110656-8639.US01	America	10/944,943	2004-09-20	7,105,585	2006-09-12		Issued	Utility
110656-8641.US01 America 11/519,432 2006-09-12 7,891,799 2011-02-22 APPLICATIONS Issued Utility  United States of 13/030,368 2011-02-18 8,192,010 2012-06-05 APPLICATIONS Issued Utility  METALLIC INK JET PRINTING SYSTEM FOR GRAPHICS Issued Utility  METALLIC INK JET PRINTING		linited States					1		
United States of 110656-8641.US02	110656-86/1 11501	1 1	11/510 427	2006-00 12	7 901 700	2011 03 33	i e		
United States of America 13/030,368 2011-02-18 8,192,010 2012-06-05 APPLICATIONS Issued Utility  METALLIC INK JET PRINTING	110000 0041.0301	, and ide	++1313,432	7000-02-17	1,,031,/39	2011-02-55	<u> </u>	issued	Utility
110656-8641.US02 America 13/030,368 2011-02-18 8,192,010 2012-06-05 APPLICATIONS Issued Utility  METALLIC INK JET PRINTING		United States of					1		
METALLIC INK JET PRINTING	110656-8641.US02	i j	13/030,368	2011-02-18	8,192,010	2012-06-05	· ·	Issued	<sub>Utility</sub>
United States of			***************************************						
		United States of					SYSTEM FOR GRAPHICS		
110656-8641.US03   America   13/488,173   2012-06-04   8,430,498   2013-04-30   APPLICATIONS   Issued   Utility	110656-8641.US03	America .	13/488,173	2012-06-04	8,430,498	2013-04-30	APPLICATIONS	Issued	Utility

<u> </u>		<del></del>						
	United States o	,				METALLIC INK JET PRINTING		
110656-8641.US04	America	13/873,036	2013-04-29	8,814,346	2014-08-25	SYSTEM AND METHOD FOR GRAPHICS APPLICATIONS	Issued	l teilie.
		120,070,000	2013 01 23	0,014,540	2014-00-20	METALLIC INK JET PRINTING	Issued	Utility
	United States o	f	1			SYSTEM FOR GRAPHICS		
110656-8641.US05	America	13/030,388	2011-02-18	8,317,311	2012-11-27	APPLICATIONS	Issued	Utility
						METALLIC INK JET PRINTING	1	<del></del>
	United States of	1				SYSTEM FOR GRAPHICS	1	
110656-8641.US06	America	13/685,521	2012-11-26	8,740,367	2014-06-03	APPLICATIONS	Issued	Utility
		.				METHOD AND COMPOSITION FOR		
110556 8543 11504	United States of	1	2000 02 05			INK JET PRINTING ON A		
110656-8642.US01	America	12/398,900	2009-03-05	8,133,539	2012-03-13	NONABSORBENT SUBSTRATE	Issued	Utility
	United States of					METHOD AND COMPOSITION FOR		
110656-8642.US02	America	13/414,444	2012-03-07	9.303,097	2016 04 05	INK JET PRINTING ON A	l	
110030-8042.0302	America	13/414,444	2012-03-07	9,303,097	2016-04-05	NONABSORBENT SUBSTRATE METHOD AND COMPOSITION FOR	Issued	Utility
	United States of	r I				INK JET PRINTING ON A		
110656-8642.US03	America	15/090,515	2016-04-04			NONABSORBENT SUBSTRATE	Pending	Utility
					<del></del>	DOT SIZE CONTROLLING PRIMER	rending	Othicy
	United States of	:				COATING FOR RADIATION CURABLE	İ	
110656-8643.US01	America	11/851,832	2007-09-07	8,153,195	2012-04-10	INK JET INKS	issued	Utility
	United States of							
110656-8644.US01	America	11/851,876	2007-09-07	7,828,412	2010-11-09	INK JET PRINTER	Issued	Utility
	United States of	1						
110656-8644.US02	America	12/913,617	2010-10-27	8,162,437	2012-04-24	INK JET PRINTER	Issued	Utility
	United States of	1	I					
110656-8644.US03	America	13/453,910	2012-04-23	8,408,676	2013-04-02	INK JET PRINTER	Issued	Utility
110556 0644 11501	United States of		2012 24 51	0.000.0:-	2011		l	
110656-8644.US04	America	13/854,762	2013-04-01	8,882,243	2014-11-11	INK JET PRINTER	Issued	Utility
	United States of					SONIC LEAK TESTING ON INK		
110656-8645.US01	America	11/862,600	2007-09-27	7,770,999	2010 00 10	DELIVERY SYSTEMS AND INK JET		1,,,,,,,
110030-0043,0301	United States of		2007-03-27	7,770,999	2010-08-10	HEADS	Issued	Utility
110656-8647.US01	America	11/862,613	2007-09-27	8,100,507	2012-01-24	INDUSTRIAL INK JET PRINTER	Issued	Utility
	United States of	,,		0,200,507	1012 01 24	INKJET PRINTER WITH CONTROLLED		Othicy
110656-8649.US01	America	12/968,730	2010-12-15	9,487,010	2016-11-08	OXYGEN LEVELS	Issued	Utility
	1			, , , , , , , , , , , ,		LED ROLL TO ROLL DRUM PRINTER	133000	Othicy
	United States of					SYSTEMS, STRUCTURES AND	İ	1
110656-8651.US01	America	12/943,843	2010-11-10	8,567,936	2013-10-29	METHODS	Issued	Utility
	United States of					OXYGEN INHIBITION FOR PRINT-		<u> </u>
110656-8652.US01	America	12/968,748	2010-12-15	9,527,307	2016-12-27	HEAD RELIABILITY	Issued	Utility
	United States of	l .				OXYGEN INHIBITION FOR PRINT-		
110656-8652.US02	America	15/390,101	2016-12-23			HEAD RELIABILITY	Pending	Utility
	United States of	1 .				COUPLING OF DIGITAL PRINTER		
110656-8654.US01	America	14/022,035	2013-09-09	9,067,435	2015-06-30	AND FINISHING	Issued	Utility
110656-8654.US02	United States of America	14/724 200	2015 05 30	0 222 560	2015 01 12	COUPLING OF DIGITAL PRINTER		
110030-8034.0302	America	14/724,296	2015-05-28	9,233,569	2016-01-12	AND FINISHING	Issued	Utility
						PRINTER HAVING A GLOBAL SKEW		
	United States of					ADJUSTMENT AND A PRINT HEAD ASSEMBLY HAVING AN		
110656-8655.US01	America	14/023,355	2013-09-10	9,079,402	2015-07-14	ADJUSTMENT MECHANISM	Issued	Utility
				1,0,0,00	1010 07 11	PRINTING SYSTEM FOR	133060	Othity
	United States of					ACCOMMODATING VARIOUS		
110656-8656.US01	America	10/055,630	2001-10-29	6,616,355	2003-09-09	SUBSTRATE THICKNESS	Issued	Utility
				1		PRINTING SYSTEM WITH		1
	United States of	l				ADJUSTABLE CARRIAGE RAIL		
110656-8657.US01	America	10/055,614	2001-10-29	6,637,958	2003-10-28	SUPPORT	Issued	Utility
*	United States of					PRINTING SYSTEM WEB GUIDE		
110656-8658.US01	America	10/058,813	2002-01-28	6,857,803	2005-02-22	WITH A REMOVABLE PLATEN	Issued	Utility
110556 6550	United States of					APPARATUS AND METHOD FOR		
10656-8659.US01	America	09/834,999	2001-04-13	6,457,823	2002-10-01	SETTING RADIATION-CURABLE INK	Issued	Utility
110656 8550 11501	United States of	10/050 070	2002 01 22	C C70 C40	2004 54	PRINTING SYSTEM WEB GUIDE		
10656-8660.US01	America United States of	10/058,979	2002-01-28	6,679,640	2004-01-20	COUPLING ASSEMBLY	Issued	Utility
10656-8661.US01	America	10/281,292	2002-10-24	6,874,860	2005-04-05	MULTI-SPEED, MULTI-RESOLUTION	leave -	Liette
.12330 0001.0301	United States of	201201,232	2002-10-24	0,074,000	12003-04-03	PRINT HEADS MULTI-COLOR, MULTI-SPEED	Issued	Utility
10656-8662.US01	America	10/100,281	2002-03-15	6,786,578	2004-09-07	PRINTING APPARATUS	Issued	Litility
	United States of	,,			200-1-03-07	RADIATION TREATMENT FOR INK	133000	Utility
.10656-8663.US01	America	11/382,904	2006-05-11	7,600,867	2009-10-13	JET FLUIDS	Issued	Utility
	United States of	· · · · · · · · · · · · · · · · · · ·		, -,	1	RADIATION TREATMENT FOR INK		
.10656-8663.US02	America	10/172,761	2002-06-13	7,073,901	2006-07-11	JET FLUIDS	Issued	Utility
	United States of	**** · · · · · · · · · · · · · · · · ·		1	1	CLEANING PROCESS FOR INK JET		1
		1	2002 02 20	6,660,103	2003-12-09	PRINTHEADS	Issued	Utility
10656-8664.US01	America	10/112,092	2002-03-28	0,000,100				
	America United States of	10/112,092	2002-03-28	0,000,103				
		10/112,092	2005-10-03	7,090,327	2006-08-15	WATER-BASED INK JET PRINTER	issued	Utility
10656-8664.US01	United States of							Utility

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110656-8666.US01	United States of America	10/440,447	2003-05-16	6,905,189	2005-06-14	WET CAPPING TRAY FOR INK JET PRINTHEADS	Issued	Utility
	United States of			1		IMAGE TILING IN INK JET PRINTING		Camey
110656-8667.US01	America United States of	10/430,801	2003-05-06	7,301,667	2007-11-27	SYSTEMS	issued	Utility
110656-8667.US02	America	11/842,777	2007-08-21	7,859,724	2010-12-28	IMAGE TILING IN INK JET PRINTING SYSTEMS	Issued	Utility
	United States of	1 .			***************************************	IMAGE TILING IN INK JET PRINTING		
110656-8667.US03	America United States of	11/842,781	2007-08-21	7,859,711	2010-12-28	SYSTEMS IDENTIFICATION SYSTEM FOR INKS	Issued	Utility
110656-8668.US01	America	10/706,870	2003-11-12	7,431,436	2008-10-07	IN PRINTING SYSTEMS	Issued	Utility
	11-11-15-1-1					RADIATION CURABLE INK		
110656-8669.US01	United States of America	10/986,561	2004-11-10	7,365,105	2008-04-29	COMPOSITIONS AND APPLICATIONS THEREOF	Issued	Utility
		<u> </u>		1,,,		RADIATION CURABLE INK	133000	Othicy
110656-8669.US02	United States of America	12/110,331	2008-04-27	7 570 200	2000 00 25	COMPOSITIONS AND APPLICATIONS	E .	
110030-8009.0302	America	12/110,331	2008-04-27	7,579,388	2009-08-25	THEREOF INKJET INKS, METHODS FOR	Issued	Utility
	l					APPLYING INKJET INK, AND		
110656-8671.US01	United States of America	11/353,754	2006-02-14	7,919,543	2011-04-05	ARTICLES PRINTED WITH INKJET	leguad	I tellia.
110030 0071.0301	- Timeries	11,033,734	2000 02 14	1,515,545	2011-04-03	INKS	Issued	Utility
*****	United States of	1				METHODS AND APPARATUS FOR		
110656-8672.US01	America	11/334,884	2006-01-19	7,562,957	2009-07-21	BACKLIT AND DUAL-SIDED IMAGING APPARATUS AND METHODS FOR	Issued	Utility
	United States of	:				FULL-WIDTH WIDE FORMAT INKLET		
110656-8673.US01	America	11/425,867	2006-06-22	7,673,965	2010-03-09	PRINTING	Issued	Utility
	United States of					APPARATUS AND METHODS FOR FULL-WIDTH WIDE FORMAT INKLET		
110656-8673.US02	America	12/628,853	2009-12-01	8,172,363	2012-05-08	PRINTING	Issued	Utility
110656 8674 11503	United States of		2017 10 11					
110656-8674.US02	America United States of	15/730,062	2017-10-11	<u> </u>		INERT UV INKJET PRINTING	Pending	Utility
110656-8675.US01	America	12/413,450	2009-03-27	9,321,281	2016-04-26	SELECTIVE INK CURE	issued	Utility
110656-8675.US02	United States of America	1	2016 04 35	0 070 561	2010 01 20	CELECEN/E INK CHOS		
110030-8073.0302	United States of	15/138,149	2016-04-25	9,878,561	2018-01-30	SELECTIVE INK CURE	Issued	Utility
110656-8675.US03	America	15/883,032	2018-01-29			SELECTIVE INK CURE	Pending	Utility
110656-8676.US01	United States of America	12/424,279	2009-04-15	8,322,836	2012 12 04	LIQUID INK CONTAINER AND INK		
110030-8070,0301	United States of	12/424,275	2003-04-13	0,322,030	2012-12-04	DELIVERY STATION	Issued	Utility
110656-8676.US02	America	13/692,893	2012-12-03	8,960,870	2015-02-24	PRINTING SYSTEM STRUCTURES	Issued	Utility
110656-8676.US03	United States of America	13/692,917	2012-12-03	8,967,777	2015-03-03	LIQUID INK CONTAINERS FOR PRINTING SYSTEMS	leguad	l teilie.
110000 0070.0000	United States of	13/032,317	2012-12-03	8,307,777	2013-03-03	PROCESSES FOR DELIVERING INK	Issued	Utility
110656-8676.US04	America	13/692,935	2012-12-03	8,777,385	2014-07-15	WITHIN A PRINTING SYSTEM	Issued	Utility
110656-8677.US01	United States of America	12/544,955	2009-08-20	8,889,232	2014-11-18	RADIATION CURABLE INK	Issued	Utility
***************************************	United States of			<u> </u>		INKJET PRINTER WITH DOT		- Clinty
110656-8678.US01	America United States of	12/883,058	2010-09-15	8,459,773	2013-06-11	ALIGNMENT VISION SYSTEM	Issued	Utility
110656-8678.US03	America	13/587,822	2012-08-16	8,757,762	2014-06-24	INKJET PRINTER WITH DOT ALIGNMENT VISION SYSTEM	Issued	Utility
	United States of					INKJET PRINTER WITH DOT		1
110656-8678.US04	America United States of	14/309,767	2014-06-19	8,967,762	2015-03-03	GAS REMOVAL FROM A FLUID	Issued	Utility
110656-8679.US01	America	13/301,477	2011-11-21	8,616,691	2013-12-31	DELIVERY SYSTEM	Issued	Utility
	United States of					GAS REMOVAL FROM A FLUID		
110656-8679.US02	America	14/076,990	2013-11-11	8,807,727	2014-08-19	PRINTING SYSTEM FOR	Issued	Utility
						APPLICATION OF A PATTERNED		
******	United States of					CLEAR LAYER FOR REDUCING GLOSS		
110656-8680.US01	America United States of	13/302,872	2011-11-22	8,833,922	2014-09-16	BANDING INK JET UV PINNING FOR CONTROL	Issued	Utility
110656-8681.US01	America	13/218,233	2011-08-25	8,684,511	2014-04-01	OF GLOSS	Issued	Utility
						REDUCED GLOSS BANDING		
110656-8682.US01	United States of America	13/218,296	2011-08-25	8,459,778	2013-06-11	THROUGH LOW INK VOLUME DEPOSITION PER PRINT PASS	Issued	Utility
						REDUCED GLOSS BANDING	133000	Othity
110555 8583 11583	United States of	13/000 301	2012 05 22	B 673 AF:	2014 02 : 5	THROUGH LOW INK VOLUME		
110656-8682.US02	America	13/898,331	2013-05-20	8,672,451	2014-03-18	DEPOSITION PER PRINT PASS METHOD AND APPARATUS FOR	Issued	Utility
						CONTROLLING LIGHTNESS IN		
						COLORED INKIET INKS BY MEANS		
L10656-8683.US01	United States of America	13/667,621	2012-11-02	9,228,104	2016-01-05	OF A TRANSPARENT WHITE INK COMPOSITION	Issued	Utility
				-,220,204	2020-01/00	METHOD AND APPARATUS FOR	133UEQ	Junity
						CONTROLLING LIGHTNESS IN		
	United States of					COLORED INKIET INKS BY MEANS OF A TRANSPARENT WHITE INK		
110656-8683.US03	1 1	15/881,657	2018-01-26			1.	Pending	Utility
				L				Journey

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	United States of	,				METHOD AND APPARATUS FOR THERMAL EXPANSION BASED PRINT		
110656-8684.US01	America	13/301,624	2011-11-21	8,477,165	2013-07-02	HEAD ALIGNMENT	Issued	Utility
		<u> </u>				METHOD AND APPARATUS FOR		1
<b>.</b>	United States of	1 .				THERMAL EXPANSION BASED PRINT		
110656-8684.US02	America United States of	13/913,279	2013-06-07	8,780,152	2014-07-15	HEAD ALIGNMENT	Issued	Utility
110656-8685.US01	America	13/408,807	2012-02-29	9,260,616	2016-02-16	GLOSS-CONTROLLABLE, RADIATION- CURABLE INKIET INK	Issued	Utility
							133000	Othicy
						STAGGERED ULTRA-VIOLET CURING		
	United States of	I				SYSTEMS, STRUCTURES AND		
110656-8686.US01	America	13/459,719	2012-04-30	9,079,427	2015-07-14	PROCESSES FOR INKIET PRINTING SYSTEMS, STRUCTURES AND	Issued	Utility
						ASSOCIATED PROCESSES FOR INLINE		
	United States of	:				ULTRASONICATION OF INK FOR	`	
110656-8687,US01	America	13/913,293	2013-06-07	9,085,161	2015-07-21	PRINTING	Issued	Utility
	United States of					LED CURABLE INKJET INKS HAVING UV ABSORBERS, AND ASSOCIATED		
110656-8688.US01	America	14/490,559	2014-09-18			SYSTEMS AND PROCESSES	Pending	Utility
						EXTERNAL TABLE HEIGHT		
	United States of					ADJUSTMENT FOR PRINTER		
110656-8689.US01	America	14/178,236	2014-02-11	9,365,061	2016-06-14	SYSTEMS	Issued	Utility
	United States of					EXTERNAL TABLE HEIGHT ADJUSTMENT FOR PRINTER		
110656-8689.US02	America	14/878,546	2015-10-08	9,656,490	2017-05-23	SYSTEMS	Issued	Utility
	1		<u> </u>			METHOD AND APPARATUS FOR	1	, , , , , , , , , , , , , , , , , , , ,
	United States of	1				SINGLE-PASS FAILED NOZZLE		
110656-8690.US01	America	14/304,824	2014-06-13	9,914,309	2018-03-13	COMPENSATION	Issued	Utility
	United States of					METHOD AND APPARATUS FOR SINGLE-PASS FAILED NOZZLE		
110656-8690.US02	America	15/918,828	2018-03-12			COMPENSATION	Pending	Utility
	United States of			+		CERAMIC INKJET INK FOR RED	Citalia	Ottinty
110656-8691.US01	America	14/333,464	2014-07-16	9,822,271	2017-11-21	DECORATION	Issued	Utility
440575 0504 11000	United States of					CERAMIC INKJET INK FOR RED		
110656-8691.US02	America United States of	15/818,484	2017-11-20		-	DECORATION CERANIC INVESTIGATION	Pending	Utility
110656-8692,US01	America	14/333,472	2014-07-16	9,446,990	2016-09-20	CERAMIC INKJET INK FOR RELIEF	Issued	Utility
	United States of			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	CERAMIC INKIET INK FOR RELIEF	133000	Othicy
110656-8692.US02	America	15/267,375	2016-09-16		1	EFFECT	Pending	Utility
	United States of							
110656-8693.US01	America	14/483,657	2014-09-11	9,336,473	2016-05-10	VIRTUAL INK CHANNELS	Issued	Utility
	United States of					GLOSS CONTROL THROUGH SELECTIVE DEPOSITION OF		
110656-8694.US01	America	14/444,751	2014-07-28	9,272,541	2016-03-01	TRANSPARENT INK	Issued	Utility
						GLOSS CONTROL THROUGH		
	United States of					SELECTIVE DEPOSITION OF		
110656-8694.US02	America	15/057,012	2016-02-29	9,724,935	2017-08-08	TRANSPARENT INK	Issued	Utility
						SYSTEMS AND METHODS FOR MINIMIZING A TOTAL NUMBER OF		
						CUTS TO SEPARATE MEDIA		
	United States of					INSTANCES IMAGED ONTO A MEDIA		
110656-8695.US02	America		2017-12-04		<u> </u>	SHEET	Pending	Utility
110050 0000 11002	United States of		2017 02 00			COMPENSATED LASER CUTTING OF		
110656-8696.US02	America United States of	15/455,038	2017-03-09	<del> </del>	<del> </del>	LABELS MULTI-LAYERED TEXTURED	Pending	Utility
110656-8697.US01	America	14/548,259	2014-11-19			PRINTING	Pending	Utility
			1		1	LOW TEMPERATURE ENERGY	<u> </u>	
	United States of					CURABLE PRINTING SYSTEMS AND		
110656-8698,US01	America	14/641,192	2015-03-06	9,764,564	2017-09-19	METHODS	Issued	Utility
110656-8699.US01	United States of America	14/514,220	2014-10-14	9,335,157	2016-05-10	DIFFERENTIAL LIGHTING	Issued	Literature
	United States of	- 1,024,220	1-01-7 10-17	-,,+-,	2010 03-10	MULTI-WAVEFORM INKJET NOZZLE	133000	Utility
110656-8700.US01	America	14/731,367	2015-06-04	9,718,269	2017-08-01	CORRECTION	Issued	Utility
	United States of					AQUEOUS RADIATION CURABLE INK		
110656-8701.US01	America	14/789,913	2015-07-01	9,458,334	2016-10-04	COMPOSITION	Issued	Utility
110656-8703.US01	United States of America	11/346,932	2006-02-03	7 /21 750	2008-10-07	HIGH ELONGATION VACUUM	lasus al	Liette.
110030-0703,0301	United States of	11/340,332	2000-02-03	7,431,759	2000-10-07	FORMABLE DIGITAL INK HIGH ELONGATION VACUUM	Issued	Utility
110656-8703.US02	America	11/387,674	2006-03-23	7,427,317	2008-09-23		Issued	Utility
	United States of		1			HIGH ELONGATION VACUUM		
110656-8703.US03	America	11/557,732	2006-11-08	7,662,224	2010-02-16		Issued	Utility
110000 9704 11004	United States of	14/602 246	2015 64 10	0 700 705	2017 40 47	REMOVABLE ULTRAVIOLET		
110656-8704.US01	America	14/683,846	2015-04-10	9,789,706	2017-10-17	CURABLE DYE SUBLIMATION INKS METHOD AND APPARATUS FOR	Issued	Utility
				1	İ.	PARETTION VIAN WELVERY 103 LOK		1
	United States of					CREATING 3D EFFECTS WITH		
110656-8705.US01		14/695,856	2015-04-24	9,630,425	2017-04-25	CREATING 3D EFFECTS WITH CERAMIC INKJET INKS	Issued	Utility
110656-8705.US01 110656-8706.US01	America United States of	14/695,856 15/093,678	2015-04-24	9,630,425	2017-04-25		Issued	Utility

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110656-8706.US02	United States of America	16/011,306	2018-06-18			MULTILAYER IMAGING WITH A HIGH-GLOSS CLEAR INK LAYER	Pending	Utility
140555 0707 11504	United States of	!	2045 05 05			UV DYE SUBLIMATION DECORATION	1	
110656-8707.US01	America	14/732,447	2015-06-05	9,844,963	2017-12-19	OF COMPLEX-SHAPED OBJECTS	Issued	Utility
	United States of					UV DYE SUBLIMATION DECORATION		
110656-8707.US02	America	15/845,988	2017-12-18			OF COMPLEX-SHAPED OBJECTS	Pending	Utility
	United States of	1				RADIATION CURABLE INK		
110656-8709.US01	America	14/958,176	2015-12-03	9,540,531	2017-01-10	COMPOSITIONS	Issued	Utility
	United States of	:				MONOMERS AND OLIGOMERS WITH APPLICATION IN ENERGY		
110656-8710.US01	America	15/135,341	2016-04-21			CURING CHEMISTRY	Pending	Utility
						RADIATION-CURABLE INKIET INK		
	United States of					FOR APPLICATION TO GLASS,		
110656-8712.US01	America	14/887,188	2015-10-19	9,790,388	2017-10-17	CERAMIC, OR METAL	Issued	Utility
	United States of					SPOT GLOSS AND GLOSS CONTROL		
110656-8713.US01	America	14/821,043	2015-08-07			IN AN INKJET PRINTING SYSTEM	Pending	Utility
	United States of					INKJET INK FOR CERAMIC TILE		
110656-8714.US01	America	15/181,308	2016-06-13	9,909,023	2018-03-06	DECORATION	Issued	Utility
110656-8716.US01	United States of America	15/238,588	2016-08-16			UV CURABLE INKJET INK COMPOSITIONS	Danding	Lieiliesa
110030-8710.0301	United States of	13/230,308	2010-00-10		+	PRINTING INDEPENDENT IMAGES	Pending	Utility
110656-8717.US01	America	15/190,131	2016-06-22	9,925,804	2018-03-27	BY SHARING PRINTER HEADS	Issued	Utility
	United States of	1				PRINTING INDEPENDENT IMAGES		
110656-8717.US02	America	15/936,340	2018-03-26			BY SHARING PRINTER HEADS	Pending	Utility
						SYSTEMS AND METHODS FOR DETERMINING PRINTING		
						CONDITIONS BASED ON SAMPLES		
	United States of					OF IMAGES PRINTED BY SHUTTLE-		
110656-8718.US01	America	15/291,016	2016-10-11			BASED PRINTERS	Pending	Utility
	United States of	15/535 535				NOZZLE COMPENSATION FOR		
110656-8719.US02	America United States of	15/636,320	2017-06-28	-		SHUTTLE BASED PRINTERS GENERATION OF SPOT COLORS	Pending	Utility
110656-8720.US01	America	15/599,405	2017-05-18			WITH REDUCED INK SUBSETS	Pending	Utility
						ACHIEVING INK COST SAVING FOR	, criaing	- Control
						PRINTING DEVICES BY TAKING		
	United States of		1			VISUAL APPEARANCE AND REAL INK		
110656-8721.US01	America	15/142,889	2016-04-29	9,994,053	2018-06-12	COSTS INTO ACCOUNT	Issued	Utility
	United States of					REPLICATION ALIGNMENT OF COMPONENTS FOR USE IN INKJET		
110656-8722.US01	America	15/597,433	2017-05-17			PRINTING APPLICATIONS	Pending	Utility
***************************************						INTEGRATION OF A LINE-SCAN		
	United States of	l .		:		CAMERA ON A SINGLE PASS INKJET		
110656-8723.US01	America	15/603,304	2017-05-23	-	-	PRINTER	Pending	Utility
	ı	l		ĺ		ELASTIC BENDING MECHANISM FOR		
	United States of					BI-DIRECTIONAL ADJUSTMENT OF		
110656-8724.US01	United States of America	15/597,495	2017-05-17	10,016,993	2018-07-10	BI-DIRECTIONAL ADJUSTMENT OF PRINT HEAD POSITION	Issued	Utility
110656-8724.US01	ŀ	15/597,495	2017-05-17	10,016,993	2018-07-10	PRINT HEAD POSITION	Issued	Utility
110656-8724.US01	America		2017-05-17	10,016,993	2018-07-10	PRINT HEAD POSITION  ELASTIC BENDING MECHANISM FOR	Issued	Utility
110656-8724.US01	ŀ		2017-05-17	10,016,993	2018-07-10	PRINT HEAD POSITION  ELASTIC BENDING MECHANISM FOR BI-DIRECTIONAL ADJUSTMENT OF		
110656-8724.US02	America United States of			10,016,993	2018-07-10	PRINT HEAD POSITION  ELASTIC BENDING MECHANISM FOR	Issued Pending	Utility
	America United States of America			10,016,993	2018-07-10	PRINT HEAD POSITION  ELASTIC BENDING MECHANISM FOR BI-DIRECTIONAL ADJUSTMENT OF PRINT HEAD POSITION		
110656-8724.US02	United States of America United States of America	16/029,881 15/491,831	2018-07-09	10,016,993	2018-07-10	PRINT HEAD POSITION  ELASTIC BENDING MECHANISM FOR BI-DIRECTIONAL ADJUSTMENT OF PRINT HEAD POSITION  PRINTER BAND EDGE HOLD DOWN SYSTEMS	Pending	Utility
110656-8724.US02 110656-8726.US01	America United States of America United States of	16/029,881 15/491,831	2018-07-09	10,016,993	2018-07-10	PRINT HEAD POSITION  ELASTIC BENDING MECHANISM FOR BI-DIRECTIONAL ADJUSTMENT OF PRINT HEAD POSITION PRINTER BAND EDGE HOLD DOWN SYSTEMS  MULTIPLE ZONE PRINTER VACUUM	Pending Pending	Utility Utility
110656-8724.US02	United States of America United States of America United States of	16/029,881 15/491,831	2018-07-09	10,016,993	2018-07-10	PRINT HEAD POSITION  ELASTIC BENDING MECHANISM FOR BI-DIRECTIONAL ADJUSTMENT OF PRINT HEAD POSITION  PRINTER BAND EDGE HOLD DOWN SYSTEMS	Pending	Utility
110656-8724.US02 110656-8726.US01	America United States of America United States of America United States of America United States of America United States of America	16/029,881 15/491,831	2018-07-09	10,016,993	2018-07-10	PRINT HEAD POSITION  ELASTIC BENDING MECHANISM FOR BI-DIRECTIONAL ADJUSTMENT OF PRINT HEAD POSITION  PRINTER BAND EDGE HOLD DOWN SYSTEMS  MULTIPLE ZONE PRINTER VACUUM TABLES, SYSTEMS AND METHODS  SINGLE PASS PRINTING OF WHITE ON CORRUGATED BOARD	Pending Pending	Utility Utility
110656-8724.US02 110656-8726.US01 110656-8727.US01 110656-8728.US01	United States of America United States of America United States of America United States of America United States of America United States of America	16/029,881 15/491,831 15/604,381 15/603,880	2018-07-09 2017-04-19 2017-05-24 2017-05-24	10,016,993	2018-07-10	PRINT HEAD POSITION  ELASTIC BENDING MECHANISM FOR BI-DIRECTIONAL ADJUSTMENT OF PRINT HEAD POSITION  PRINTER BAND EDGE HOLD DOWN SYSTEMS  MULTIPLE ZONE PRINTER VACUUM TABLES, SYSTEMS AND METHODS  SINGLE PASS PRINTING OF WHITE ON CORRUGATED BOARD  LOW ODOR RADIATION CURABLE	Pending Pending Pending Pending	Utility Utility Utility Utility
110656-8724.US02 110656-8726.US01 110656-8727.US01 110656-8728.US01	America United States of America United States of America United States of America United States of America United States of America	16/029,881 15/491,831 15/604,381	2018-07-09 2017-04-19 2017-05-24	10,016,993	2018-07-10	PRINT HEAD POSITION  ELASTIC BENDING MECHANISM FOR BI-DIRECTIONAL ADJUSTMENT OF PRINT HEAD POSITION  PRINTER BAND EDGE HOLD DOWN SYSTEMS  MULTIPLE ZONE PRINTER VACUUM TABLES, SYSTEMS AND METHODS  SINGLE PASS PRINTING OF WHITE ON CORRUGATED BOARD	Pending Pending Pending	Utility Utility Utility
110656-8724.US02 110656-8726.US01 110656-8727.US01	United States of America United States of America United States of America United States of America United States of America United States of America	16/029,881 15/491,831 15/604,381 15/603,880 15/472,630	2018-07-09 2017-04-19 2017-05-24 2017-05-24	10,016,993	2018-07-10	PRINT HEAD POSITION  ELASTIC BENDING MECHANISM FOR BI-DIRECTIONAL ADJUSTMENT OF PRINT HEAD POSITION  PRINTER BAND EDGE HOLD DOWN SYSTEMS  MULTIPLE ZONE PRINTER VACUUM TABLES, SYSTEMS AND METHODS SINGLE PASS PRINTING OF WHITE ON CORRUGATED BOARD  LOW ODOR RADIATION CURABLE INK COMPOSITIONS	Pending Pending Pending Pending	Utility Utility Utility Utility
110656-8724.US02 110656-8726.US01 110656-8727.US01 110656-8728.US01	America United States of America United States of America United States of America United States of America United States of America	16/029,881 15/491,831 15/604,381 15/603,880 15/472,630	2018-07-09 2017-04-19 2017-05-24 2017-05-24	10,016,993	2018-07-10	PRINT HEAD POSITION  ELASTIC BENDING MECHANISM FOR BI-DIRECTIONAL ADJUSTMENT OF PRINT HEAD POSITION  PRINTER BAND EDGE HOLD DOWN SYSTEMS  MULTIPLE ZONE PRINTER VACUUM TABLES, SYSTEMS AND METHODS  SINGLE PASS PRINTING OF WHITE ON CORRUGATED BOARD  LOW ODOR RADIATION CURABLE	Pending Pending Pending Pending	Utility Utility Utility Utility
110656-8724.US02 110656-8726.US01 110656-8727.US01 110656-8728.US01 110656-8729.US01	United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America	16/029,881 15/491,831 15/604,381 15/603,880 15/472,630	2018-07-09 2017-04-19 2017-05-24 2017-05-24 2017-03-29 2017-05-25	10,016,993	2018-07-10	PRINT HEAD POSITION  ELASTIC BENDING MECHANISM FOR BI-DIRECTIONAL ADJUSTMENT OF PRINT HEAD POSITION  PRINTER BAND EDGE HOLD DOWN SYSTEMS  MULTIPLE ZONE PRINTER VACUUM TABLES, SYSTEMS AND METHODS SINGLE PASS PRINTING OF WHITE ON CORRUGATED BOARD  LOW ODOR RADIATION CURABLE INK COMPOSITIONS  INTERACTIVE THREE-DIMENSIONAL (3D) COLOR HISTOGRAMS  INKJET DECORATION OF	Pending Pending Pending Pending Pending Pending	Utility Utility Utility Utility Utility Utility Utility
110656-8724.US02 110656-8726.US01 110656-8727.US01 110656-8728.US01	United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America	16/029,881 15/491,831 15/604,381 15/603,880 15/472,630	2018-07-09 2017-04-19 2017-05-24 2017-05-24 2017-03-29	10,016,993	2018-07-10	PRINT HEAD POSITION  ELASTIC BENDING MECHANISM FOR BI-DIRECTIONAL ADJUSTMENT OF PRINT HEAD POSITION  PRINTER BAND EDGE HOLD DOWN SYSTEMS  MULTIPLE ZONE PRINTER VACUUM TABLES, SYSTEMS AND METHODS SINGLE PASS PRINTING OF WHITE ON CORRUGATED BOARD LOW ODOR RADIATION CURABLE INK COMPOSITIONS  INTERACTIVE THREE-DIMENSIONAL (3D) COLOR HISTOGRAMS  INKIET DECORATION OF ARCHITECTURAL MATERIALS	Pending Pending Pending Pending Pending	Utility Utility Utility Utility Utility Utility
110656-8724.US02 110656-8726.US01 110656-8727.US01 110656-8728.US01 110656-8729.US01 110656-8730.US02	America  United States of America  United States of America  United States of America  United States of America  United States of America  United States of America  United States of America  United States of America  United States of America	16/029,881 15/491,831 15/604,381 15/603,880 15/472,630 15/605,770 15/715,965	2018-07-09 2017-04-19 2017-05-24 2017-05-24 2017-03-29 2017-05-25 2017-09-26			PRINT HEAD POSITION  ELASTIC BENDING MECHANISM FOR BI-DIRECTIONAL ADJUSTMENT OF PRINT HEAD POSITION  PRINTER BAND EDGE HOLD DOWN SYSTEMS  MULTIPLE ZONE PRINTER VACUUM TABLES, SYSTEMS AND METHODS SINGLE PASS PRINTING OF WHITE ON CORRUGATED BOARD LOW ODOR RADIATION CURABLE INK COMPOSITIONS  INTERACTIVE THREE-DIMENSIONAL (3D) COLOR HISTOGRAMS  INKIET DECORATION OF ARCHITECTURAL MATERIALS  ENERGY CURABLE FOAM	Pending Pending Pending Pending Pending Pending Pending Pending	Utility Utility Utility Utility Utility Utility Utility Utility Utility
110656-8724.US02 110656-8726.US01 110656-8727.US01 110656-8728.US01 110656-8729.US01	United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America	16/029,881 15/491,831 15/604,381 15/603,880 15/472,630	2018-07-09 2017-04-19 2017-05-24 2017-05-24 2017-03-29 2017-05-25	9,862,849	2018-07-10	PRINT HEAD POSITION  ELASTIC BENDING MECHANISM FOR BI-DIRECTIONAL ADJUSTMENT OF PRINT HEAD POSITION  PRINTER BAND EDGE HOLD DOWN SYSTEMS  MULTIPLE ZONE PRINTER VACUUM TABLES, SYSTEMS AND METHODS SINGLE PASS PRINTING OF WHITE ON CORRUGATED BOARD  LOW ODOR RADIATION CURABLE INK COMPOSITIONS  INTERACTIVE THREE-DIMENSIONAL (3D) COLOR HISTOGRAMS  INKJET DECORATION OF ARCHITECTURAL MATERIALS  ENERGY CURABLE FOAM INHIBITION INK	Pending Pending Pending Pending Pending Pending	Utility Utility Utility Utility Utility Utility Utility
110656-8724.US02 110656-8726.US01 110656-8727.US01 110656-8728.US01 110656-8739.US02 110656-8731.US01 110656-8732.US01	United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America	16/029,881 15/491,831 15/604,381 15/603,880 15/472,630 15/605,770 15/715,965	2018-07-09 2017-04-19 2017-05-24 2017-05-24 2017-03-29 2017-05-25 2017-09-26			PRINT HEAD POSITION  ELASTIC BENDING MECHANISM FOR BI-DIRECTIONAL ADJUSTMENT OF PRINT HEAD POSITION  PRINTER BAND EDGE HOLD DOWN SYSTEMS  MULTIPLE ZONE PRINTER VACUUM TABLES, SYSTEMS AND METHODS SINGLE PASS PRINTING OF WHITE ON CORRUGATED BOARD LOW ODOR RADIATION CURABLE INK COMPOSITIONS  INTERACTIVE THREE-DIMENSIONAL (3D) COLOR HISTOGRAMS  INKIET DECORATION OF ARCHITECTURAL MATERIALS  ENERGY CURABLE FOAM	Pending Pending Pending Pending Pending Pending Pending Pending	Utility Utility Utility Utility Utility Utility Utility Utility Utility
110656-8724.US02 110656-8726.US01 110656-8727.US01 110656-8728.US01 110656-8729.US01 110656-8730.US02	America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America	16/029,881 15/491,831 15/604,381 15/603,880 15/472,630 15/605,770 15/715,965 15/400,024	2018-07-09 2017-04-19 2017-05-24 2017-05-24 2017-03-29 2017-05-25 2017-09-26 2017-01-06			PRINT HEAD POSITION  ELASTIC BENDING MECHANISM FOR BI-DIRECTIONAL ADJUSTMENT OF PRINT HEAD POSITION  PRINTER BAND EDGE HOLD DOWN SYSTEMS  MULTIPLE ZONE PRINTER VACUUM TABLES, SYSTEMS AND METHODS  SINGLE PASS PRINTING OF WHITE ON CORRUGATED BOARD  LOW ODOR RADIATION CURABLE INK COMPOSITIONS  INTERACTIVE THREE-DIMENSIONAL (3D) COLOR HISTOGRAMS  INKIET DECORATION OF ARCHITECTURAL MATERIALS  ENERGY CURABLE FOAM INHIBITION INK  COLORATION OF ACETYLATED  WOOD  COLORATION OF ACETYLATED	Pending Pending Pending Pending Pending Pending Pending Pending	Utility Utility Utility Utility Utility Utility Utility Utility Utility Utility
110656-8724.US02 110656-8726.US01 110656-8727.US01 110656-8728.US01 110656-8729.US01 110656-8730.US02 110656-8731.US01 110656-8733.US01 110656-8733.US01	United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America	16/029,881 15/491,831 15/604,381 15/603,880 15/472,630 15/605,770 15/715,965 15/400,024	2018-07-09 2017-04-19 2017-05-24 2017-05-24 2017-03-29 2017-05-25 2017-09-26 2017-01-06			PRINT HEAD POSITION  ELASTIC BENDING MECHANISM FOR BI-DIRECTIONAL ADJUSTMENT OF PRINT HEAD POSITION  PRINTER BAND EDGE HOLD DOWN SYSTEMS  MULTIPLE ZONE PRINTER VACUUM TABLES, SYSTEMS AND METHODS SINGLE PASS PRINTING OF WHITE ON CORRUGATED BOARD LOW ODOR RADIATION CURABLE INK COMPOSITIONS  INTERACTIVE THREE-DIMENSIONAL (3D) COLOR HISTOGRAMS  INKIET DECORATION OF ARCHITECTURAL MATERIALS  ENERGY CURABLE FOAM INHIBITION INK  COLORATION OF ACETYLATED WOOD  COLORATION OF ACETYLATED WOOD	Pending Pending Pending Pending Pending Pending Pending Pending	Utility Utility Utility Utility Utility Utility Utility Utility Utility Utility
110656-8724.US02 110656-8726.US01 110656-8727.US01 110656-8728.US01 110656-8739.US02 110656-8731.US01 110656-8733.US01 110656-8733.US01 110656-8733.US01	America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America	16/029,881 15/491,831 15/604,381 15/603,880 15/472,630 15/605,770 15/715,965 15/400,024 15/654,473 15/809,970	2018-07-09 2017-04-19 2017-05-24 2017-05-24 2017-03-29 2017-05-25 2017-09-26 2017-01-06 2017-07-19 2017-11-10			PRINT HEAD POSITION  ELASTIC BENDING MECHANISM FOR BI-DIRECTIONAL ADJUSTMENT OF PRINT HEAD POSITION  PRINTER BAND EDGE HOLD DOWN SYSTEMS  MULTIPLE ZONE PRINTER VACUUM TABLES, SYSTEMS AND METHODS SINGLE PASS PRINTING OF WHITE ON CORRUGATED BOARD LOW ODOR RADIATION CURABLE INK COMPOSITIONS  INTERACTIVE THREE-DIMENSIONAL (3D) COLOR HISTOGRAMS  INKIET DECORATION OF ARCHITECTURAL MATERIALS  ENERGY CURABLE FOAM INHIBITION INK  COLORATION OF ACETYLATED WOOD  COLORATION OF ACETYLATED WOOD  PROCESS FOR PREPARING	Pending Pending Pending Pending Pending Pending Pending Pending Pending Pending	Utility Utility Utility Utility Utility Utility Utility Utility Utility Utility Utility Utility
110656-8724.US02 110656-8726.US01 110656-8727.US01 110656-8728.US01 110656-8729.US01 110656-8730.US02 110656-8731.US01 110656-8733.US01	United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America	16/029,881 15/491,831 15/604,381 15/603,880 15/472,630 15/605,770 15/715,965 15/400,024	2018-07-09 2017-04-19 2017-05-24 2017-05-24 2017-03-29 2017-05-25 2017-09-26 2017-01-06 2017-07-19			PRINT HEAD POSITION  ELASTIC BENDING MECHANISM FOR BI-DIRECTIONAL ADJUSTMENT OF PRINT HEAD POSITION  PRINTER BAND EDGE HOLD DOWN SYSTEMS  MULTIPLE ZONE PRINTER VACUUM TABLES, SYSTEMS AND METHODS SINGLE PASS PRINTING OF WHITE ON CORRUGATED BOARD LOW ODOR RADIATION CURABLE INK COMPOSITIONS  INTERACTIVE THREE-DIMENSIONAL (3D) COLOR HISTOGRAMS  INKIET DECORATION OF ARCHITECTURAL MATERIALS  ENERGY CURABLE FOAM INHIBITION INK  COLORATION OF ACETYLATED WOOD  COLORATION OF ACETYLATED WOOD  PROCESS FOR PREPARING	Pending Pending Pending Pending Pending Pending Pending Pending Pending	Utility Utility Utility Utility Utility Utility Utility Utility Utility Utility Utility

United 9	tates of			1	METHODS AND APPARATUS FOR	
America	10/317448	2002-12-11	7367060	2008-04-29	SECURE DOCUMENT PRINTING	Issued
United S	tates of				METHOD AND APPARATUS FOR	
America	16/173339	2018-10-29	-		VARIABLE GLOSS REDUCTION	Pending
	PCT/US2017/0		WO18009820		NOZZLE COMPENSATION FOR	
WIPO	41130	2017-07-07	A1	2018-01-11	SHUTTLE BASED PRINTERS	Issued
	PCT/US2017/0		WO18031923		GENERATION OF SPOT COLORS	
WIPO	46571	2017-08-11	A1	2018-02-15	WITH REDUCED INK SUBSETS	Issued
	PCT/US2017/0		WO18058122		INKIET DECORATION OF	
WIPO	53492	2017-09-26	A1	2018-03-29	ARCHITECTURAL MATERIALS	Issued
					SYSTEMS AND METHODS FOR	
					DETERMINING PRINTING	
					CONDITIONS BASED ON SAMPLES	
	PCT/US2017/0		WO18071587		OF IMAGES PRINTED BY SHUTTLE-	
WIPO	56209	2017-10-11	A1	2018-04-19	BASED PRINTERS	Issued
	PCT/US2017/0		WO18081422		ENERGY CURABLE FOAM	
WIPO	58526	2017-10-26	A2	2018-05-03	INHIBITION INK	Issued
	PCT/US2017/0		WO18106923	1	COLORATION OF ACETYLATED	
WIPO	65122	2017-12-07	A1	2018-06-14	WOOD	Issued
	PCT/US2017/0		WO18106925		COLORATION OF ACETYLATED	
WIPO	65126	2017-12-07	A1	2018-06-14	WOOD	Issued

**RECORDED: 01/03/2019**