### 503582767 11/24/2015

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3629395

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
STEVEN ROBERT MOORE	11/16/2015
ABU SAEED ISLAM	11/21/2015
BRUCE H. SMITH	11/19/2015

### **RECEIVING PARTY DATA**

Name:	XEROX CORPORATION
Street Address:	45 GLOVER AVENUE
Internal Address:	P.O. BOX 4505
City:	NORWALK
State/Country:	CONNECTICUT
Postal Code:	06856-4505

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14949908

### **CORRESPONDENCE DATA**

**Fax Number:** (443)458-0958

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:** 443-569-0770

Email: Assignments@prassllp.com

Correspondent Name: PRASS LLP

Address Line 1: 2661 RIVA ROAD

Address Line 2: BUILDING 1000, SUITE 1044
Address Line 4: ANNAPOLIS, MARYLAND 21401

ATTORNEY DOCKET NUMBER:	056-0668	
NAME OF SUBMITTER:	DANIEL A. TANNER, III	
SIGNATURE:	/Daniel A. Tanner, III/	
DATE SIGNED:	11/24/2015	

**Total Attachments: 3** 

source=056-0668-Assignment#page1.tif source=056-0668-Assignment#page2.tif

PATENT 503582767 REEL: 037124 FRAME: 0137

source=056-0668-Assignment#page3.tif

PATENT REEL: 037124 FRAME: 0138

Xerox Docket No.: 2014147101 Attorney Docket No.: 056-668

# <u>ASSIGNMENT</u>

The undersigned is/are the named inventor(s) (the "Inventor(s)") on a United States patent application entitled SYSTEMS AND METHODS FOR IMPLEMENTING THREE DIMENSIONAL (3D) OBJECT, PART AND COMPONENT MANUFACTURE INCLUDING DISPLACEMENT/VIBRATION WELDED OR HEAT STAKED LAMINATES, (the "Application") for inventions disclosed or claimed therein (the "Invention(s)"), which Application:

was first executed on		is being executed concurrently herewith.		
Claims the benefit of U.S. Provisional Application(s) No(s)				
Claims the benefit of U.S. Provisional Application(s) No(s).  Xerox Corporation, a New York Corporation, on behalf of itself, its successors and assigns, and its legal representatives ("Xerox"), is entitled to all rights in the Application and the Invention(s), and the full cooperation of the Inventor(s).  For valuable consideration, the receipt of which is hereby acknowledged, the Inventor(s) hereby self(s), assign(s), and transfer(s) to Xerox the entire and exclusive right, title and interest in the Application and the Invention(s), in and for the United States, its entires and exclusive right, title and interest in the Application and the Invention(s), in and for the United States, its entires, and all foreign countries, including all applications, patents, design registrations and publications obtained or derived therefrom, world wide, and all priority rights under all present or future conventions and treaties, and any provisional applications for which priority is claimed in the Application; and  (1) request the U.S. Commissioner of Patents to issue all U.S. Letters Patent granted thereon to Xerox;  (2) agree that Xerox may apply for and receive all foreign Letters Patent thereon;  (3) agree to execute all papers and take all actions necessary or desirable in connection therewith requested by Xerox; and  (4) authorize Xerox to subsequently enter the Application Number on this Assignment, if not already entered above.  Abu Saeed ISLAM  DATE  Abu Saeed ISLAM  DATE		was filed on as Application Numi	ber .	
cooperation of the Inventor(s), and the full cooperation of the Inventor(s) hereby self(s), assign(s), and transfer(s) to Xerox the entire and exclusive right, title and interest in the Application and the invention(s), in and for the United States, its territories, and all foreign countries, including all applications patients, design registrations and publications obtained or derived therefrom, world wide, and all priority rights under all present or future conventions and treaties, and any provisional applications for which priority is claimed in the Application; and  (1) request the U.S. Commissioner of Patents to issue all U.S. Letters Patent granted thereon to Xerox;  (2) agree that Xerox may apply for and receive all foreign Letters Patent thereon;  (3) agree to execute all papers and take all actions necessary or desirable in connection therewith requested by Xerox; and  (4) authorize Xerox to subsequently enter the Application Number on this Assignment, if not already entered above.  Abu Saced ISLAM  DATE  Abu Saced ISLAM  DATE		Claims the benefit of U.S. Provisional Applicat	ion(s) No(s).	filed
invention(s), in and for the United States, its territories, and all foreign countries, including all applications, patents, design registrations and publications obtained or derived therefrom, world wide, and all priority rights under all present or future conventions and treaties, and any provisional applications for which priority is claimed in the Application; and  (1) request the U.S. Commissioner of Patents to issue all U.S. Letters Patent granted thereon to Xerox;  (2) agree that Xerox may apply for and receive all foreign Letters Patent thereon;  (3) agree to execute all papers and take all actions necessary or desirable in connection therewith requested by Xerox; and  (4) authorize Xerox to subsequently enter the Application Number on this Assignment, if not already entered above.  Abu Saeed ISLAM  DATE  Abu Saeed ISLAM  DATE	1,555	esementes (valox), is cultified to all udule in t	of itself, its successors the Application and the	and assigns, and its legal Invention(s), and the full
(2) agree that Xerox may apply for and receive all foreign Letters Patent thereon; (3) agree to execute all papers and take all actions necessary or desirable in connection therewith requested by Xerox; and (4) authorize Xerox to subsequently enter the Application Number on this Assignment, if not already entered above.    16 Nov 2015   DATE	Inve pate und	ymar, and sansier(s) to Aerox the entire and exclus intion(s), in and for the United States, its territories, ints, design registrations and publications obtained or ar all present or future conventions and treaties, ar	ive right, title and interest and all foreign countries r derived therefrom world	in the Application and the including all applications, wide and all priority debter.
(2) agree that Xerox may apply for and receive all foreign Letters Patent thereon; (3) agree to execute all papers and take all actions necessary or desirable in connection therewith requested by Xerox; and (4) authorize Xerox to subsequently enter the Application Number on this Assignment, if not already entered above.    16 Nov 2015   DATE	(1)	request the U.S. Commissioner of Patents to issue a	all U.S. Letters Patent gra-	nted thereon to Xerox;
requested by Xerox; and  (4) authorize Xerox to subsequently enter the Application Number on this Assignment, if not already entered above.    Compared to the Application Number on this Assignment, if not already entered above.    Compared to the Application Number on this Assignment, if not already entered above.    Compared to the Application Number on this Assignment, if not already entered above.    Compared to the Application Number on this Assignment, if not already entered above.    Compared to the Application Number on this Assignment, if not already entered above.    Compared to the Application Number on this Assignment, if not already entered above.    Compared to the Application Number on this Assignment, if not already entered above.    Compared to the Application Number on this Assignment, if not already entered above.    Compared to the Application Number on this Assignment, if not already entered above.    Compared to the Application Number on this Assignment, if not already entered above.    Compared to the Application Number on this Assignment, if not already entered above.    Compared to the Application Number on this Assignment, if not already entered above.    Compared to the Application Number on this Assignment, if not already entered above.    Compared to the Application Number on this Assignment, if not already entered above.    Compared to the Application Number on this Assignment, if not already entered above.    Compared to the Application Number on this Assignment, if not already entered above.   Compared to the Application Number on this Assignment, if not already entered above.   Compared to the Application Number on this Assignment, if not already entered above.   Compared to the Application Number on this Assignment, if not already entered above.   Compared to the Application Number on this Assignment, if not already entered above.   Compared to the Application Number on the Ap	(2)			
Abu Saeed ISLAM  OATE	(3)	agree to execute all papers and take all actions necessary or desirable in connection therewish		
Abu Saeed ISLAM DATE	(4)	authorize Xerox to subsequently enter the Applicatio above.	in Number on this Assigni	nent, if not already entered
Abu Saeed ISLAM DATE	35000	<u> </u>	16 No	v 2015
The second of th		Steven Robert MOORE	: : : : : : : : : : : : : : : : : : :	DATE
The second of th				
The second of th	nina	Abu Saeed ISLAM	Anna Caranta C	0878
Bruce H. SMITH				source of
	deplejon	Bruce H, SMITH		BSTE

PATENT REEL: 037124 FRAME: 0139

Xerox Docket No.: 2014147101 Attorney Docket No.: 056-668

# **ASSIGNMENT**

The undersigned is/are the named inventor(s) (the "Inventor(s)") on a United States patent application entitled SYSTEMS AND METHODS FOR IMPLEMENTING THREE DIMENSIONAL (3D) OBJECT, PART AND COMPONENT MANUFACTURE INCLUDING DISPLACEMENT/VIBRATION WELDED OR HEAT STAKED LAMINATES, (the "Application") for inventions disclosed or claimed therein (the "Invention(s)"), which Application:

	is being executed concurrently herewith.			
	was first executed on			
	was filed on as Application Numbe	,		
	claims the benefit of U.S. Provisional Application	r(s) No(s) file	ed	
eebu	ox Corporation, a New York Corporation, on behalf of esentatives ("Xerox"), is entitled to all rights in the peration of the Inventor(s).	f itself, its successors ar Application and the In	of assigns, and its legal vention(s), and the full	
assij Inve pate unde	valuable consideration, the receipt of which is herel gn(s), and transfer(s) to Xerox the entire and exclusive ntion(s), in and for the United States, its territories, a nts, design registrations and publications obtained or d er all present or future conventions and treaties, and ned in the Application; and	eright, title and interest in nd all foreign countries, is erived therefrom, world w	the Application and the neluding all applications, ide, and all oriority rights	
(1)	request the U.S. Commissioner of Patents to issue all	U.S. Letters Patent grante	ed thereon to Xerox;	
(2)				
3)				
(4) authorize Xerox to subsequently enter the Application Number on this Assignment, if not already e above.				
	Steven Robert MOORE		DATE	
	Alu Sand Telom	11/21/20	)15	
	Abu Saeed ISLAM		DATE	
	Bruce H. SMITH		DATE	

Xerox Docket No.: 2014147101 Altomey Docket No.: 056-668

## <u>ASSIGNMENT</u>

The undersigned is/are the named inventor(s) (the "Inventor(s)") on a United States patent application entitled SYSTEMS AND METHODS FOR IMPLEMENTING THREE DIMENSIONAL (3D) OBJECT, PART AND COMPONENT MANUFACTURE INCLUDING DISPLACEMENT/VIBRATION WELDED OR HEAT STAKED LAMINATES, (the "Application") for inventions disclosed or claimed therein (the "Invention(s)"), which Application:

is being executed concurrently herewith.

	was first executed on			
	was filed on as Application Number			
	Claims the benefit of U.S. Provisional Application(s) No	o(s)filed		
(31.3	ox Corporation, a New York Corporation, on behalf of itself resentatives ("Xerox"), is entitled to all rights in the Appliperation of the Inventor(s).	, its successors and assigns, and its legal ication and the invention(s), and the full		
ass Inve Date Und	valuable consideration, the receipt of which is hereby actign(s), and transfer(s) to Xerox the entire and exclusive right ention(s), in and for the United States, its territories, and all ents, design registrations and publications obtained or derived fer all present or future conventions and treaties, and any pand in the Application; and	, title and interest in the Application and the foreign countries, including all applications, therefrom world wide and all applications.		
1)	request the U.S. Commissioner of Patents to Issue all U.S. I.	etiers Palent granted thereon to Xerox:		
2)	agree that Xerox may apply for and receive all foreign Letter			
3)				
(4) authorize Xerox to subsequently enter the Application Number on this Assignment, if not already e above.				
	Steven Robert MOORE	SATE		
1844				
	Abu Saeed ISLAM	DATE		
Alfilia Inter	Bruce H. SMITH	11/19/20CS		

PATENT REEL: 037124 FRAME: 0141

**RECORDED: 11/24/2015**