

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5226994

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MATTHEW MEITL	09/18/2018
BROOK RAYMOND	09/17/2018
RONALD S. COK	09/19/2018
CHRISTOPHER ANDREW BOWER	09/18/2018
SALVATORE BONAFEDE	09/17/2018
ERICH RADAUSCHER	09/17/2018
CARL RAY PREVATTE JR.	09/17/2018
ANTÓNIO JOSÉ MARQUES TRINDADE	10/22/2018
TANYA YVETTE MOORE	09/20/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	X-CELEPRINT LIMITED
<b>Street Address:</b>	LEE MALTINGS
<b>Internal Address:</b>	DYKE PARADE
<b>City:</b>	CORK
<b>State/Country:</b>	IRELAND
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16039191
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)502-5002
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	617-248-5000
<b>Email:</b>	PatentDocket@choate.com
<b>Correspondent Name:</b>	CHOATE HALL & STEWART LLP-PATENT DOCKET
<b>Address Line 1:</b>	TWO INTERNATIONAL PLACE
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02110
<b>ATTORNEY DOCKET NUMBER:</b>	2011486-0723
<b>NAME OF SUBMITTER:</b>	MICHAEL D. SCHMITT, PHD

<b>SIGNATURE:</b>	/Michael Schmitt/
<b>DATE SIGNED:</b>	11/07/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).
<b>Total Attachments: 13</b> source=XC065-CIP1 CmbAsstDec#page1.tif source=XC065-CIP1 CmbAsstDec#page2.tif source=XC065-CIP1 CmbAsstDec#page3.tif source=XC065-CIP1 CmbAsstDec#page4.tif source=XC065-CIP1 CmbAsstDec#page5.tif source=XC065-CIP1 CmbAsstDec#page6.tif source=XC065-CIP1 CmbAsstDec#page7.tif source=XC065-CIP1 CmbAsstDec#page8.tif source=XC065-CIP1 CmbAsstDec#page9.tif source=XC065-CIP1 CmbAsstDec#page10.tif source=XC065-CIP1 CmbAsstDec#page11.tif source=XC065-CIP1 CmbAsstDec#page12.tif source=XC065-CIP1 CmbAsstDec#page13.tif	

**COMBINED JOINT ASSIGNMENT & DECLARATION****A. ASSIGNMENT**

WHEREAS, each of the below-named inventors whose name and residence is set forth in the following Table 1:

Inventor Name	City, State
1. Matthew Meitl	Durham, North Carolina
2. Brook Raymond	Cary, North Carolina
3. Ronald S. Cok	Rochester, New York
4. Christopher Andrew Bower	Raleigh, North Carolina
5. Salvatore Bonafede	Chapel Hill, North Carolina
6. Erich Radauscher	Raleigh, North Carolina
7. Carl Ray Prevatte, Jr.	Raleigh, North Carolina
8. António José Marques Trindade	Cork, Ireland
9. Tanya Yvette Moore	Hurdle Mills, North Carolina

Table 1

hereby declares and agrees, on behalf of himself/herself and all of his/her successors and assigns that each is aware of the patent application(s) entitled:

**STRUCTURES AND METHODS FOR ELECTRICAL CONNECTION OF MICRO-DEVICES AND SUBSTRATES; and**

prepared for filing in the United States Patent and Trademark Office; or

identified by United States Application No. 16/039191  
filed in the United States Patent and Trademark Office on July 18, 2018; and

identified by International Patent Application No. \_\_\_\_\_  
filed on \_\_\_\_\_; and

and is also aware of the following priority applications:

Application No.	Filed
15/937450	March 27, 2018
62/477834	March 28, 2017

WHEREAS, X-Celeprint Limited (hereinafter "ASSIGNEE"), having a usual place of business at Lee Maltings, Dyke Parade, Cork, IRELAND, desires to acquire or confirm an interest therein;

NOW, THEREFORE, to all whom it may concern be it known that, in consideration of agreements previously and duly entered into between the parties, and/or for other good and valuable consideration, the receipt of which is hereby acknowledged, each of us has sold, assigned, and transferred and/or do hereby sell, assign, and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title, and interest in and throughout the United States of America, its territories and all foreign countries, in and to any and all inventions described in the patent application, and/or any priority applications noted above, including any right of priority thereto; and hereby confirm that my sale, assignment and transfer is and was effective at least as of the filing date of the patent application and/or priority application. Our sale, assignment and transfer applies to the above-referenced patent application, and to any application that is based in whole or in part on the patent application, including any divisional, continuing, substitute, renewal, reissue, reexamination and other applications, for example that claim priority to the patent application. Also, this sale, assignment and transfer pertains to any and all other rights arising under or pursuant to any and all international agreements, treaties, or laws relating to the protection of industrial property, including all rights of priority under the International Convention for the Protection of Industrial Property, and in and to any such patent(s) as may issue thereon including any and all original and reissued patents which have been or shall be issued in the United States and foreign countries; said inventions, applications, and patent(s) to be held and enjoyed by ASSIGNEE for its own use and for its successors, assigns and legal representatives, to the full end of the term for which said patent(s) may be granted as fully and entirely as the same would have been held by each of us had this sale, assignment and transfer not been made;

AND, each of us hereby acknowledges that this Assignment, being of our entire right, title, and interest in and to the inventions, carries with it the right in ASSIGNEE, by attorneys and agents of ASSIGNEE selection, to apply for and receive any and all patent(s) for said inventions in its own name;

AND, each of us hereby further agrees for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the patent(s) to ASSIGNEE, its successors, assignees, and legal representatives, but at its expense and charges, including the execution of application for patents in foreign countries, the execution of substitution, reissue, divisional or continuation applications, and the giving of testimony, preliminary statements, or other statements in any interference or other proceeding in which the inventions or any applications or patents directed to the inventions may be involved by communicating to the ASSIGNEE all facts we know relating to the inventions and their history, and generally by doing everything possible which ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for the inventions and for vesting title in the inventions and all applications for patent and all patents on the inventions in ASSIGNEE;

AND, each of us further hereby authorizes ASSIGNEE or its attorneys or agents to insert the correct application number(s) and/or filing date(s) into this assignment document, if appropriate;

AND, each of us hereby appoints ASSIGNEE as our common agent for purposes of prosecuting international patent applications and any national patent applications for which such common agency is recognized;

AND, each of us hereby requests the Commissioner for Patents of the United States Patent and Trademark Office to issue any and all patent(s) as shall be granted upon said application or applications based thereon to ASSIGNEE, its successors, assigns, and legal representatives;

AND, each of us covenants with said ASSIGNEE that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by us, and that full right to convey the same as herein expressed is possessed by us.

**B. DECLARATION (37 CFR 1.63)**

As below named inventors, we hereby declare that:

This declaration is directed to the patent application entitled:

**STRUCTURES AND METHODS FOR ELECTRICAL CONNECTION OF MICRO-  
DEVICES AND SUBSTRATES; and**

attached hereto or prepared for filing in the United States Patent and Trademark Office; or

identified by United States Application No. 16/039191  
filed in the United States Patent and Trademark Office on July 18, 2018; or

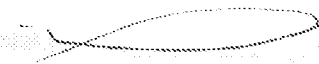
identified by International Patent Application No. \_\_\_\_\_  
filed on \_\_\_\_\_.

The above-identified application was made or authorized to be made by us.

We believe that we are each an original joint inventor of a claimed invention in the application.

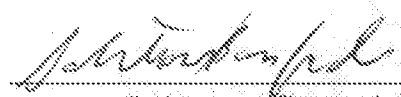
We hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

We have reviewed and understand the contents of the application, including the claims and are aware of the duty to disclose to the United States Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR 1.56.

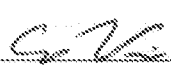
Signature: 

Matthew Meitl

Date: 9/18/2018

Witness Signature: 

Witness Name (printed): Salvatore Benfante

Witness Signature: 

Witness Name (printed): 9/18/18

Signature: Brook Raymond  
Brook Raymond

Date: 9/17/18

Witness Signature: [Signature]

Witness Name (printed): Brook S. Raymond

Witness Signature: [Signature]

Witness Name (printed): Julia M. Re



Signature: Ronald S. Cok Date: 9/17/12  
Ronald S. Cok

Witness Signature: Randy Chan  
Witness Name (printed): Randy Chan

Witness Signature: Julia M. Roe  
Witness Name (printed): Julia M. Roe

Signature: Christopher Andrew Bower  
Christopher Andrew Bower

Date: 9/18/18

Witness Signature: Salvatore Benafante

Witness Name (printed): Salvatore Benafante

Witness Signature: [Signature]

Witness Name (printed): 9/18/18

Signature: Salvatore Bonafede Date: 9/17/2008  
Salvatore Bonafede

Witness Signature: [Signature]  
Witness Name (printed): Bradley S. Kronjard

Witness Signature: [Signature]  
Witness Name (printed): Christopher Verocen

Signature:

*Erich Radtke*

Erich Radtke

Date:

9/17/18

Witness Signature:

*Christopher Verzen*

Witness Name (printed):

Christopher Verzen

Witness Signature:

*Bradley S. Krongard*

Witness Name (printed):

Bradley S. Krongard

Signature: Carl R. Prevatte, Jr.  
Carl Ray Prevatte, Jr.

Date: 9/17/2008

Witness Signature: Christopher Verreen

Witness Name (printed): Christopher Verreen

Witness Signature: Andrew Ovental

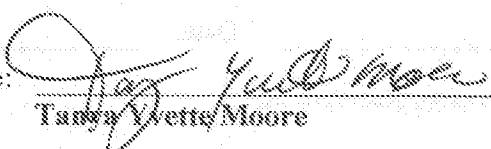
Witness Name (printed): Andrew Ovental

Signature: Antônio José Marques Trindade  
Antônio José Marques Trindade

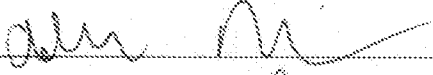
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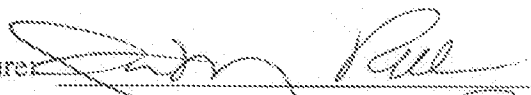
Witness Signature: Alexandre CHAKHARON  
Witness Name (printed): Alexandre Chakharon

Witness Signature: Raja Fazan Gul  
Witness Name (printed): Raja Fazan Gul

Signature:   
Tanya Yvette Moore

Date: 9/20/18

Witness Signature:   
Witness Name (printed): Andrew Pearson

Witness Signature:   
Witness Name (printed): Julia M. Roe