

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4319315

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ROBELLO SAMUEL	06/13/2014
XIAOQUAN HUANG	05/23/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	LANDMARK GRAPHICS CORPORATION
<b>Street Address:</b>	2107 CITY WEST BLVD
<b>Internal Address:</b>	BLDG. 2
<b>City:</b>	HOUSTON
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77042
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15309161
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(713)223-3717
<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>	7132261200
<b>Email:</b>	hipdocket@lockelord.com
<b>Correspondent Name:</b>	LOCKE LORD LLP
<b>Address Line 1:</b>	600 TRAVIS
<b>Address Line 2:</b>	SUITE 2800
<b>Address Line 4:</b>	HOUSTON, TEXAS 77002
<b>ATTORNEY DOCKET NUMBER:</b>	2014-IP-084801 (028US9)
<b>NAME OF SUBMITTER:</b>	ROBERT JACKSON
<b>SIGNATURE:</b>	/Robert Jackson/
<b>DATE SIGNED:</b>	03/15/2017
<b>Total Attachments: 3</b>	
source=2014-IP-084801 (028WO) Assignment#page1.tif	
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source=2014-IP-084801 (028WO) Assignment#page3.tif	

**ASSIGNMENT OR RATIFICATION OF ASSIGNMENT  
OF INTELLECTUAL PROPERTY**

WHEREAS, the undersigned, hereafter individually/collectively "**Assignor**," has invented certain new and useful methods, devices, and/or systems that are disclosed and/or claimed in International Application entitled "**OPTIMIZED UBD OPERATION ENVELOPE**" a true and accurate copy of which is provided herewith, hereafter "**Application**," and

WHEREAS **LANDMARK GRAPHICS CORPORATION**, a Delaware corporation having a place of business at 2107 City West Blvd., Bldg. 2, Houston, TX 77042, United States of America, hereafter "**Assignee**," is desirous of acquiring the entire and exclusive right, title and interest in and to, and possession of, the subject matter disclosed and claimed in the **Application**, including any tangible materials, know-how and trade secrets related thereto (hereafter, collectively, the "**Invention**"); and the entire and exclusive right, title, interest in and to, and possession of, the **Application**, including rights to claim priority thereto, and to all related pending and future United States and/or foreign applications disclosing or claiming the **Invention** in whole or in part, including, without limitation, all provisional applications, non-provisional applications, divisional applications, continuation applications, continuation-in-part applications, renewals, reissues, reexaminations, substitutes or extensions thereof, and to all patents or other related property rights that may be issued or granted thereon anywhere in the world (hereafter, collectively, the "**Intellectual Property**").

NOW, THEREFORE, for and in consideration of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and to the extent not already assigned by **Assignor** to **Assignee** by prior written agreement or employment relationship, **Assignor** has hereby assigned, transferred and conveyed, or hereby ratified such, and does hereby assign, transfer and convey, or does hereby ratify such, to **Assignee**, its successors and assigns, the entire and exclusive right, title and interest in and to, and possession and use of, the aforesaid **Intellectual Property**, throughout the world, including without limitation, the right to file and prosecute applications for patent in the name of **Assignee** and/or **Assignor**; all income, royalties, damages and payments now or hereafter due or payable with respect to any patent or other right that is based on the **Intellectual Property**; and in and to all causes of action (either in law or in equity), and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned hereunder, as fully and entirely as the same would have been held and enjoyed by **Assignor** if this transfer and assignment had not been made;

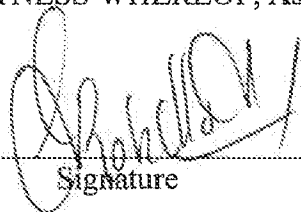
AND **Assignor** hereby authorizes and requests the appropriate governmental officials to issue any and all such United States or foreign country patent or related property right assigned hereunder, to **Assignee**, as the owner of the entire and exclusive right, title and interest in and to the same;

AND **Assignor** hereby represents, warrants and covenants that **Assignor** has the full right to convey the interest herein assigned, that **Assignor** has not executed and will not execute any agreement, instrument or assignment in conflict herewith, and that the rights assigned herein are not otherwise encumbered by any grant, license or right;

AND **Assignor** further covenants and agrees that **Assignor** will at any time upon request make, execute and deliver without further compensation, any and all other instruments in writing, including further applications, papers, affidavits, power of attorney, assignments, and other documents, and do all lawful acts and things, which, in the opinion of counsel for **Assignee**, its successors and assigns, may in any country be required or necessary more effectively to secure to and vest in **Assignee**, its successors and assigns the **Intellectual Property**, and that **Assignor** will sign any applications for reissue, division, continuation, continuation-in-part, counterpart, renewal, reexamination, substitute or extension of said **Application** or any resulting patent or related property right;

AND **Assignor** further covenants and agrees that **Assignor** will at any time upon request communicate to the **Assignee**, its successors, assigns or other legal representatives any facts relating to the aforesaid **Invention**, **Application** and **Intellectual Property** known to it, and will testify as to the same in any interference, litigation, mediation, arbitration or other proceeding when requested to do so.

IN WITNESS WHEREOF, **Assignor** has hereunto set his/her hand and seal.

  
Signature

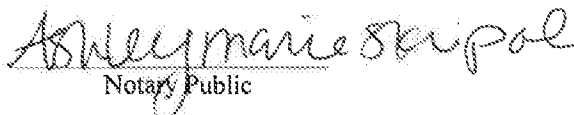
Robello SAMUEL  
11306 Dawnheath Dr  
Cypress, TX 77433  
United States of America

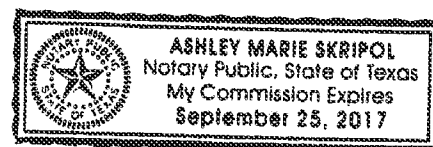
06/13/14  
Date of Execution

STATE OF Texas §  
COUNTY OF Harris §

BEFORE ME, the undersigned authority, on this day personally appeared Robello SAMUEL, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this  
13 day of June, 2014

  
Notary Public



Xiaoqian HUANG  
Signature

Xiaoqian HUANG  
3702 Gable Grove Lane  
Katy, TX 77494  
United States of America

05/23/2014

Date of Execution

STATE OF TEXAS  
COUNTY OF Harris

§  
§  
§

BEFORE ME, the undersigned authority, on this day  
personally appeared Xiaoqian HUANG  
, known to me to be the person whose name is  
subscribed to the foregoing instrument, and  
acknowledged to me that he/she executed the same for  
the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this  
23 day of May, 2014

Ashley Marie Skripol  
Notary Public

