PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SRINIVASAN JAGNNATHAN	07/16/2019
OLUWATOSIN OGUNDARE	06/17/2019
SRINATH MADASU	06/25/2019
KESHAVA RANGARAJAN	06/25/2019

RECEIVING PARTY DATA

Name:	LANDMARK GRAPHICS CORPORATION	
Street Address:	3000 N. SAM HOUSTON PARKWAY E.	
City:	HOUSTON	
State/Country:	TEXAS	
Postal Code:	77032	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16956605

CORRESPONDENCE DATA

Fax Number: (713)223-3717

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: 713-226-1200

Email: patent@lockelord.com, victoria.kubitskey@lockelord.com

LOCKE LORD LLP **Correspondent Name: 600 TRAVIS STREET** Address Line 1:

Address Line 2: **SUITE 2800**

Address Line 4: HOUSTON, TEXAS 77002

ATTORNEY DOCKET NUMBER:	ORNEY DOCKET NUMBER: 2019-IPM-102979 (487US9)	
NAME OF SUBMITTER:	VICTORIA KUBITSKEY	
SIGNATURE:	/Victoria Kubitskey/	
DATE SIGNED:	06/23/2020	

Total Attachments: 5

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PATENT REEL: 053009 FRAME: 0858 506119565

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PATENT REEL: 053009 FRAME: 0859

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 an application for patent entitled "STOCHASTIC REALIZATION OF PARAMETER INVERSION IN PHYSICS BASED EMPIRICAL MODELS," 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 3000 N. Sam Houston Parkway E., Houston, Texas 77032, 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

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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.

STATE OF WA S
Signature COUNTY OF KM S

Srinivasan Jagnnathan 5614 Island Breeze Drive Houston, Texas 77041 United States of America BEFORE ME, the undersigned authority, on this day personally appeared <u>Srinivasan Jagnnathan</u>, 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.

OT-16-2019

Date of Execution

Sareichant

Notary Public

Sareichant

Notary Public

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Signature	STATE OF Texas \$ COUNTY OF Hairis \$
Oluwatosin Ogundare 9634 Lavender Mist Ln Katy, Texas 77494 United States of America	BEFORE ME, the undersigned authority, on this day personally appeared <u>Oluwatosin Ogundare</u> , 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.
Date of Execution Signature	GIVEN UNDER MY HAND and seal of office this
Srinath Madasu	BEFORE ME, the undersigned authority, on this day
11319 Briar Forest Dr. Houston, Texas 77077 United States of America	personally appeared <u>Srinath Madasu</u> , 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 day of, 2019.
Date of Execution	
	Notary Public

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	STATE OF§
Signature	COUNTY OF §
Oluwatosin Ogundare 9634 Lavender Mist Ln Katy, Texas 77494 United States of America	BEFORE ME, the undersigned authority, on this depersonally appeared Oluwatosin Ogundare, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me the he/she executed the same for the purposes and consideration therein expressed.
	GIVEN UNDER MY HAND and seal of office the day of, 2019.
Date of Execution	Notary Public
Signature	STATE OF TOKAS § COUNTY OF HAPT (5 §
Srinath Madasu 11319 Briar Forest Dr. Houston, Texas 77077 United States of America	BEFORE ME, the undersigned authority, on this day personally appeared <u>Srinath Madasu</u> , 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.
Date of Execution Of The School of The Scho	GIVEN UNDER MY HAND and seal of office this 25 day of 100 day of 2019. Notary Public
William I State of the Control of th	Do an 3 - 5 4

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Ref. No. 2019-IPM-102979 U1 PCT Docket No. 0539542-487WO1

Signature

Keshava Rangarajan 1800 Austin Pkwy, Apt # 509 Sugar Land, Texas 77479 United States of America

STATE OF 83 83 COUNTY OF

BEFORE ME, the undersigned authority, on this day personally appeared Keshava Rangarajan, 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 25 day of ______, 2019.

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RECORDED: 06/23/2020