

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5797625

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PETER J. BOUL	10/21/2019
CARL THAEMLITZ	10/21/2019
RECEIVING PARTY DATA	
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Street Address:	1200 SMITH STREET
Internal Address:	TWO ALLEN BUILDING
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State/Country:	TEXAS
Postal Code:	77002
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16596396
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NAME OF SUBMITTER:	BRIAN H. TOMPKINS
SIGNATURE:	/Brian H. Tompkins/
DATE SIGNED:	10/31/2019
Total Attachments: 4	
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ASSIGNMENT

WHEREAS, WE, **Peter J. Boul**, a citizen of the United States of America and **Carl Thaemlitz**, a citizen of the United States of America, are co-inventors of an invention, entitled, **“CEMENT-BASED DIRECT INK FOR 3D PRINTING OF COMPLEX ARCHITECTED STRUCTURES”**, which claims priority from U.S. Provisional Application No. 62/742,706 filed October 8, 2018, entitled, **“CEMENT-BASED DIRECT INK FOR 3D PRINTING OF COMPLEX ARCHITECTED STRUCTURES”** and whereas, the assignee hereby authorizes and requests the attorneys and/or agents recording the aforementioned assignment, to insert the application number and filing date of the United States Patent Application that is the subject of this assignment below;

<i>Application Data:</i>	
Application Number	16/596,396
Filing Date	October 8, 2019

AND WHEREAS, **ARAMCO SERVICES COMPANY**, a Company with Limited Liability, with a business address of 1200 Smith Street, 27th Floor, Houston, Texas 77002, USA, hereafter "ARAMCO SERVICES", is desirous of acquiring the entire right, title and interest in and to the aforesaid invention throughout the world, and all right, title and interest in, to and under any and all Letters Patent of the United States and all other countries throughout the world;

WHEREAS, by an Agreement dated June 12, 2015 entitled “Assignment of Intellectual Property,” we as employees of ARAMCO SERVICES have assigned all of our right, title, and interest in and to the aforesaid invention throughout the world, and both we and ARAMCO SERVICES are desirous of ratifying such Assignment for the record;

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to us in hand paid by ARAMCO SERVICES and for other good and valuable considerations, the receipt of which is hereby acknowledged, I hereby sell, assign, transfer and set over to ARAMCO SERVICES, all right, title and interest in and to the said invention throughout the world, and said application for U.S. Letters Patent, and any and all divisions, continuations, reexaminations and reissues thereof, and any and all Letters Patent of the United States and foreign countries which

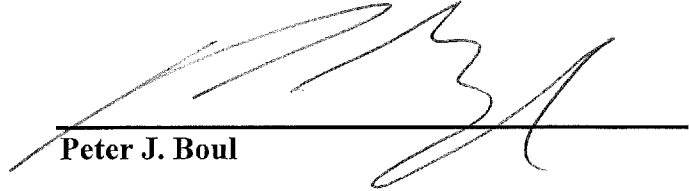
may be granted therefor, the same to be held and enjoyed by them for their own use and benefit, and for the use and benefit of their successors, assigns, or other legal representatives, to the end of the term or terms for which said Letters Patent of the United States or foreign countries are or may be granted, reexamined or reissued, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made.

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application and from any and all divisions, continuations, and reissues thereof, to ARAMCO SERVICES, as assignee of my entire interest, and hereby covenant that we have the full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith.

And we further hereby covenant and agree that we will, at any time, upon request, execute and deliver any and all papers that may be necessary or desirable to perfect the title of said invention and to such Letters Patent as may be granted therefor, to ARAMCO SERVICES, its successors, assigns, or other legal representatives and that if ARAMCO SERVICES shall desire to file any divisional or continuation applications or to secure a reexamination or reissue of such Letters Patent, or to file a disclaimer relating thereto, will upon request, sign all papers, make all rightful oaths and do all lawful acts requisite for the filing of such divisional or continuation application, or such application for reissue and the procuring thereof, and for the filing of such disclaimer, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

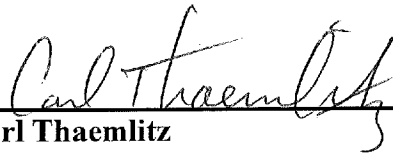
And we do further covenant and agree that we will, at any time upon request, communicate to ARAMCO SERVICES, its successors, assigns or other legal representatives, such facts relating to said invention and Letters Patent or the file history thereof as may be known to me, and testify as to the same in any interference or other litigation when requested so to do, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

EXECUTED THIS 21ST day of October, 2019.



Peter J. Boul

EXECUTED THIS 21st day of October, 2019.



Carl Thaemlitz