

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT            |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                           |
| <b>Name</b>                                                                                                                                                                                     | <b>Execution Date</b>     |
| PETER BOUL                                                                                                                                                                                      | 10/07/2020                |
| CARL THAEMLITZ                                                                                                                                                                                  | 05/14/2020                |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                           |
| <b>Name:</b>                                                                                                                                                                                    | ARAMCO SERVICES COMPANY   |
| <b>Street Address:</b>                                                                                                                                                                          | 1200 SMITH STREET         |
| <b>City:</b>                                                                                                                                                                                    | HOUSTON                   |
| <b>State/Country:</b>                                                                                                                                                                           | TEXAS                     |
| <b>Postal Code:</b>                                                                                                                                                                             | 77002                     |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                           |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>             |
| Application Number:                                                                                                                                                                             | 16874449                  |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                           |
| <b>Fax Number:</b>                                                                                                                                                                              |                           |
| <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> |                           |
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| <b>Email:</b>                                                                                                                                                                                   | docketing@bracewell.com   |
| <b>Correspondent Name:</b>                                                                                                                                                                      | BRACEWELL LLP             |
| <b>Address Line 1:</b>                                                                                                                                                                          | P.O. BOX 61389            |
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| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 0004159.051340 (SA51340)  |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | ESMERALDA MENDOZA         |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /R. Nicholas Buchmuller/  |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 12/11/2020                |
| <b>Total Attachments: 3</b>                                                                                                                                                                     |                           |
| source=SA51340_ASC0426-US01-NP_Assignment_Inventors_to_ASC#page1.tif                                                                                                                            |                           |
| source=SA51340_ASC0426-US01-NP_Assignment_Inventors_to_ASC#page2.tif                                                                                                                            |                           |
| source=SA51340_ASC0426-US01-NP_Assignment_Inventors_to_ASC#page3.tif                                                                                                                            |                           |

## ASSIGNMENT

WHEREAS, we, **Peter BOUL**, a citizen of the United States, and **Carl THAEMLITZ**, a citizen of the United States, are inventors of **ADDITIVE MANUFACTURE-ASSISTED METHOD FOR MAKING STRUCTURAL ELEMENTS HAVING CONTROLLED FAILURE CHARACTERISTICS**, for which application for United States Patent Application No. **16/874,449** was filed on **May 14, 2020** (**responsible attorney has authorization to fill in serial number and filing date upon filing**); and

WHEREAS, Aramco Services Company, a corporation of the State of Delaware, and having a principal address of 1200 Smith Street, 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;

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, we 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 us 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 us, 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 7 day of October, 2020.

  
Peter BOUL

EXECUTED THIS \_\_\_\_14\_\_\_\_ day of \_\_\_\_\_May\_\_\_\_\_, 2020.

A handwritten signature in cursive script, reading "Carl J. Thaemlitz". The signature is written in dark ink and is positioned above a horizontal line.

Carl THAEMLITZ