

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4178646

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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>                    |
| LEONEL ARELLANO   | 12/08/2016                               |
| JAMES WILFRID BLUST II  | 12/08/2016                               |
| ARIEL SCHUGER   | 12/08/2016                               |
| ASHLEY VEGA   | 12/08/2016                               |
| <b>RECEIVING PARTY DATA</b>   |  |
| <b>Name:</b>  | SOLAR TURBINES INCORPORATED              |
| <b>Street Address:</b>  | 2200 PACIFIC HIGHWAY                     |
| <b>City:</b>  | SAN DIEGO                                |
| <b>State/Country:</b>   | CALIFORNIA                               |
| <b>Postal Code:</b>   | 92101                                    |
| <b>PROPERTY NUMBERS Total: 1</b>  |  |
| <b>Property Type</b>  | <b>Number</b>                            |
| <b>Application Number:</b>  | 15374237                                 |
| <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> |  |
| <b>Phone:</b>   | 619-238-1900                             |
| <b>Email:</b>   | docketing@procopio.com                   |
| <b>Correspondent Name:</b>  | CATERPILLAR INC. PROCOPIO, CORY, HARGREA |
| <b>Address Line 1:</b>  | 525 B STREET SUITE 2200                  |
| <b>Address Line 4:</b>  | SAN DIEGO, CALIFORNIA 92101              |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 119061-149UT1                            |
| <b>NAME OF SUBMITTER:</b>   | PAMELA SKELTON                           |
| <b>SIGNATURE:</b>   | /Pamela Skelton/                         |
| <b>DATE SIGNED:</b>   | 12/09/2016                               |
| <b>Total Attachments: 6</b>   |  |
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## ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

### INJECTOR HEAD WITH A RESONATOR FOR A GAS TURBINE ENGINE

for which I/We will or have filed a patent application; and

WHEREAS, **SOLAR TURBINES INCORPORATED**, a corporation of Delaware whose post office address is 2200 Pacific Highway, San Diego, CA 92101, United States of America (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, and in and to the patent application for this invention and any and all patents to be issued upon this application throughout the world;


NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention, and this application, and all divisions, and continuations thereof, and all patents which may be granted thereon, and all reissues thereof, as well as all rights to claim priority in any country or jurisdiction or patent office on the basis of this application, and all applications for patents which may hereafter be filed for this invention in any country or jurisdiction or patent office and all patents which may be granted on this invention in any country or jurisdiction or patent office, and all extensions, renewals, and reissues thereof; and I/We hereby authorize and request any official of any country or jurisdiction or patent office whose duty it is to issue patents on applications as described above, to issue all patents for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;


AND, I/WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;


AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in any country or jurisdiction or patent office, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns;

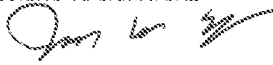
AND, I/WE HEREBY authorize Assignee or the attorneys/representatives of Assignee to insert here in parentheses the country, application number, and official filing date (United States Application No. 15/374,237 filed December 9, 2016 ).

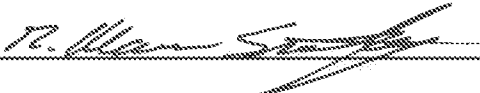
IN TESTIMONY WHEREOF, I/We have hereunto set our hands.


|   |  |                   |
|---|--|-------------------|
| 1. FULL NAME OF SOLE OR FIRST ASSIGNOR<br>Leonel Arellano | ASSIGNOR'S SIGNATURE<br> | DATE<br>12/8/16   |
| ADDRESS<br>13635 Pequot Drive, Poway, CA 92064            |  | CITIZENSHIP<br>US |
|   |  |                   |

|   |  |                              |
|---|--|------------------------------|
| 1. WITNESS NAME<br>EVAN CORBIN                      | WITNESS SIGNATURE<br> | DATE<br>12/8/16              |
| ADDRESS<br>7971 LAKE CANYON DR. SAN DIEGO, CA 92119 |  | CITIZENSHIP<br>UNITED STATES |
|   |  |                              |

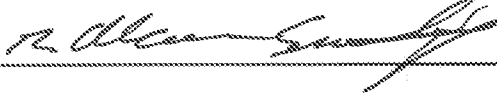
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|---|--|-------------------|
| 2. WITNESS NAME<br>MICHAEL RAMOTOWSKI               | WITNESS SIGNATURE<br> | DATE<br>12/8/16   |
| ADDRESS<br>4237 SANTA CRUZ AVE. SAN DIEGO CA. 92107 |  | CITIZENSHIP<br>US |
|   |  |                   |


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|---|---|--------------------|
| 2. FULL NAME OF SECOND ASSIGNOR, IF ANY<br>James Wilfrid Blust II | ASSIGNOR'S SIGNATURE<br> | DATE<br>12/8/16    |
| ADDRESS<br>7047 Gain Drive, San Diego, CA 92119                   |   | CITIZENSHIP<br>USA |
|   |   |                    |

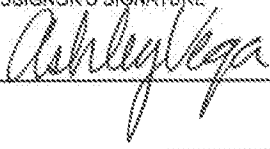
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|--|---|--------------------|
| 1. WITNESS NAME<br>ALAN SMITHEY                      | WITNESS SIGNATURE<br> | DATE<br>12-8-16    |
| ADDRESS<br>9895 LAMINITO CUNDRIL SAN DIEGO, CA 92129 |   | CITIZENSHIP<br>USA |
|  |   |                    |


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|---|---|--------------------|
| 2. WITNESS NAME<br>Ted Grocock                | WITNESS SIGNATURE<br> | DATE<br>12-8-16    |
| ADDRESS<br>618 Josefa PL Chula Vista CA 91910 |   | CITIZENSHIP<br>USA |
|   |   |                    |

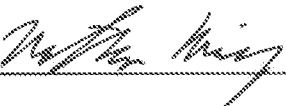
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|---|--|--------------------|
| 3. FULL NAME OF THIRD ASSIGNOR, IF ANY<br>Ariel Schuger | ASSIGNOR'S SIGNATURE:<br> | DATE<br>12/8/16    |
| ADDRESS<br>9545 Milden St., La Mesa, CA 91942           |  | CITIZENSHIP<br>USA |
|   |  |                    |

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|---|---|--------------------|
| 1. WITNESS NAME<br>ALAN SMITHLEY                      | WITNESS SIGNATURE<br> | DATE<br>12-8-16    |
| ADDRESS<br>7895 CAMINITO GUARDIA, SAN DIEGO, CA 92129 |   | CITIZENSHIP<br>USA |
|   |   |                    |

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|---|---|--------------------|
| 2. WITNESS NAME<br>Ted Grocock                  | WITNESS SIGNATURE<br> | DATE<br>12-8-16    |
| ADDRESS<br>618 Josefina PL Chula Vista CA 91910 |   | CITIZENSHIP<br>USA |
|   |   |                    |

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|---|---|--------------------|
| 4. FULL NAME OF THIRD ASSIGNOR, IF ANY<br>Ashley Vega | ASSIGNOR'S SIGNATURE<br> | DATE<br>12/8/16    |
| ADDRESS<br>2200 Pacific Highway, San Diego, CA 92101  |   | CITIZENSHIP<br>USA |
|   |   |                    |

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|---|---|--------------------|
| 1. WITNESS NAME<br>Ted Grocock                  | WITNESS SIGNATURE<br> | DATE<br>12/8/16    |
| ADDRESS<br>618 Josefine Pl Chula Vista CA 91910 |   | CITIZENSHIP<br>USA |
|   |   |                    |

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|--|---|--------------------|
| 2. WITNESS NAME<br>NATHAN KIRLSEY                      | WITNESS SIGNATURE<br> | DATE<br>12/8/16    |
| ADDRESS<br>1770 EVERGREEN ST APT 20 SAN DIEGO CA 92106 |   | CITIZENSHIP<br>USA |
|  |   |                    |

## Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

**PATENT**

**RECORDED: 12/09/2016**

**REEL: 040700 FRAME: 0300**