### 505197004 11/19/2018

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
SIMON LLOYD JONES	11/05/2018
DRUMMOND WATSON HISLOP	11/05/2018
KEITH ROBERT PULLEN	11/04/2018

### **RECEIVING PARTY DATA**

Name:	HIETA TECHNOLOGIES LIMITED
Street Address:	BRISTOL & BATH SCIENCE PARK, DIRAC CRESCENT, EMERSONS GREEN
City:	BRISTOL
State/Country:	UNITED KINGDOM
Postal Code:	BS16 7FR

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16302784

### **CORRESPONDENCE DATA**

**Fax Number:** (703)816-4100

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:** 703-816-4000

Email: PTOMAIL@nixonvan.com

Correspondent Name: JOHN R. LASTOVA

Address Line 1: NIXON & VANDERHYE, PC

Address Line 2: 901 NORTH GLEBE ROAD, 11TH FLOOR

Address Line 4: ARLINGTON, VIRGINIA 22203

ATTORNEY DOCKET NUMBER:	JRL-550-2368
NAME OF SUBMITTER:	JOHN R. LASTOVA
SIGNATURE:	/JOHN R. LASTOVA/
DATE SIGNED:	11/19/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

**Total Attachments: 3** 

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PATENT REEL: 048150 FRAME: 0367

EPAS ID: PAT5243773

505197004

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PATENT REEL: 048150 FRAME: 0368 Doc code: Oath

Document Description: Oath or declaration filed

Attorney Docket Number JRL-0550-2368
First Named Inventor JONES, Simon Lloyd

# INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) USING AN APPLICATION DATA SHEET (37 CFR 1.76)

# RADIAL FLOW TURBINE HEAT ENGINE (Title of the Invention) As a below named inventor, I hereby declare that: This declaration is directed to: I the attached application, or United States Application Number filed, or PCT International application number PCT/GB2017/050843 filed on March 24, 2017. The above-identified application was made or authorized to be made by me. I believe I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both

WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an invention in the Application identified above.

WHEREAS, **HIETA TECHNOLOGIES LIMITED** (hereinafter ASSIGNEE), an entity with company number 07757746, having an office and place of business at Bristol & Bath Science Park, Dirac Crescent, Emersons Green, Bristol, England, BS16 7FR, is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE's attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;

ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention;

ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and

ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

### AGREED and executed as noted below:

LEGAL NAME OF INVENTOR/JO			
(E.g., Given Name (first and middle	(if any)) and Family Name or	Surname)	
Simon	Lloyd	JONES	
Inventor's Signature:		Date: /	
Control of the Contro		05/11	12018

I/We acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR §1.56.

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Document Description: Oath or declaration filed

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	First Named Inventor JONES, Simon Lloyd
INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILIT USING AN APPLICATION DATA	
RADIAL FLOW TURBINE	HEAT ENGINE
(Title of the inven	<b>3-0</b> 5
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I believe I am the original inventor or an original joint inventor of a daimed	invention in the application.
I hereby acknowletige that any wilful false statement made in this declara by fine or imprisonment of not more than five (5) years, or both	tion is punishable under 18 U.S.C. 1901
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NOW THEREFORE in consideration of Ten Dollars (\$10.00) and/or other of which are hereby acknowledged, the said ASSIGNOR by these present ASSIGNEE, its successors, assigns, and legal representatives. ASSIGNC America and all foreign countries, in and to the invention as described in the subsequent applications based thereon including any and all continuations all resulting patents, together with the right of priority under the Internation American Convention Relating to Patents. Designs and Industrial Models. States of America adheres, and the ASSIGNOR hereby authorizes and resaid Letters Patent to ASSIGNEE for its interest as ASSIGNEE, its succeagreed that ASSIGNEE'S afterneys Nixon & Vanderhye P.C. have representable.	ts hereby sells, assigns, and transfers unto the said OP'S entire right, title and interest in the United States of the aforesaid application, and to the said application and to alf is, divisions, reissues, and substitutes of said application, and tail Convention for the Protection of Industrial Property. Inter- and any other international agreements to which the United injuests the Commissioner of Patents and Trademarks to issue issors, assigns, and legal representatives. It is understood and
ASSIGNOR hereby agrees to transfer a like interest upon request of said representatives, and without further remuneration, in and to any improven of or related to the said invention;	
ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its succession ASSIGNEE'S full protection and title in and to the invention hereby tran	
ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without furth ASSIGNEE, for the filing and granting of foreign applications and the perfe	ner remuneration, to execute any and all papers desired by epting of tale therets in ASSIGNEE.
AGREED and executed as noted below:	
LEGAL NAME OF INVENTOR/JOINT INVENTOR:	
(E.g., Given Name (first and middle (if any)) and Family Name or Sumano Drummond Watson	e) Hislop
Inventor's Sprature William	Date: 5 + November 2018

I/We acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR \$1.56.

Doc code: Oath

Document Description: Oath or declaration filed

This declaration is directed to:    the attached application number filed , or   United States Application Number filed , or   PCT International application number PCT/GB2017/050843 filed on March 24, 2017.    The above-identified application was made or authorized to be made by me.     believe I am the original inventor or an original joint inventor of a claimed invention in the application.     I believe I am the original inventor or an original joint inventor of a claimed invention in the application.     I believe I am the original inventor or an original joint inventor of a claimed invention in the application.     I believe I am the original inventor or an original joint inventor of a claimed invention in the application.     I believe I am the original inventor or an original joint inventor of a claimed invention in the application.     WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an invention in the Application identified above.     WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an invention in the Application identified above.     WHEREAS, THETA TECHNOLOGIES LIMITED (hereinafter ASSIGNEE), an entity with company number 07757746, having an office and place of business at Bristol & Bath Science Park, Dirac Crescent, Emersons Green, Bristol, England, BS16 7FR, is desired of acquiring an interest therein;   NCW, THEREFORE, in consideration of Ten Dollare (\$10.00) and/or other good and valuable consideration, the receipt and sufficier of which are hereby acknowledged, the said ASSIGNDR by these presents hereby selfs, assigns, and transfers unto the said ASSIGNOR's entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the brided States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to the invention as described in the aforesaid application, and to the install positions and to the intere		Attorney Docket Number	JRL-0550-2368
RADIAL FLOW TURBINE HEAT ENGINE  (Title of the Invention)  As a below named inventor, I hereby declare that:  This declaration is directed to:  the attached application, or United States Application Number filed, or  PCT International application number PCT/GB2017/050843 filed on March 24, 2017.  The above-identified application number PCT/GB2017/050843 filed on March 24, 2017.  The above-identified application was made or authorized to be made by me.  I believe I am the original inventor or an original joint inventor of a claimed invention in the application.  I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001  by fine or imprisonment of not more than five (5) years, or both.  WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an invention in the Application identified above.  WHEREAS, HETA TECHNOLOGIES LittliftED (hereinafter ASSIGNEE), an entity with company number 07757746, having an office and place of business at Bristol & Bath Science Park, Dirac Creacent, Emersons Green, Bristol, England, BS16 7FR, is desiror of acquiring an interest therein.  NOW, THEREORE, in consideration of Ten Dollars (\$10.00) and/or other good and valuable consideration, the receipt and sufficient of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and legal representatives. ASSIGNORS enter inglit, tills and interest in britled States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and the said was accounted as ASSIGNOR to the said invention of Patents and Trademarks to issue app		First Named Inventor	JONES, Simon Lloyd
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office and place of business at Bristol & Bath Science Park, Dirac Crescent, Emersons Green, Bristol, England, BS16 7FR, is desired of acquiring an interest therein;  NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or other good and valuable consideration, the receipt and sufficient which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, at all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property, Interest and Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the Unite States of America adheres, and the ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to is said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood agreed that ASSIGNEE's attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;  ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing of or related to the said invention;  ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essen to ASSIGNEE's full protection and title in and to the invention hereby transferred; and  ASSIGNOR hereby agrees to execute any		nvention in the Application ider	ntified above.
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representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing of or related to the said invention;  ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essen to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and  ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.  AGREED and executed as noted below:  LEGAL NAME OF INVENTOR/JOINT INVENTOR:  (E.g., Given Name (first and middle (if any)) and Family Name or Surname)	of which are hereby acknowledged, the said ASSIGNOR by these pre ASSIGNEE, its successors, assigns, and legal representatives, ASSIC America and all foreign countries, in and to the invention as described subsequent applications based thereon including any and all continua all resulting patents, together with the right of priority under the Interna American Convention Relating to Patents, Designs and Industrial Mod States of America adheres, and the ASSIGNOR hereby authorizes an said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its suagreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have rep	sents hereby sells, assigns, an BNOR'S entire right, title and in in the aforesaid application, ar tions, divisions, reissues, and s ational Convention for the Prote lels, and any other international d requests the Commissioner of accessors, assigns, and legal re-	d transfers unto the said terest in the United States of id to the said application and to all substitutes of said application, and action of Industrial Property, Inter- I agreements to which the United of Patents and Trademarks to issue apresentatives. It is understood an
to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and  ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.  AGREED and executed as noted below:  LEGAL NAME OF INVENTOR/JOINT INVENTOR:  (E.g., Given Name (first and middle (if any)) and Family Name or Surname)	representatives, and without further remuneration, in and to any impro		
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LEGAL NAME OF INVENTOR/JOINT INVENTOR: (E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)	AGREED and executed as noted below:		
	(E.g., Given Name (first and middle (if any)) and Family Name or Surr Keith , Robert ,	iame) PULLEN	

I/We acknowledge the duty to disclose information which is meterial to the patentability of this application as defined in 37 CFR §1.56. 2873526

Date:

**PATENT REEL: 048150 FRAME: 0371** 

4th November 2018

**RECORDED: 11/19/2018** 

Inventor's Signature: