506864670 09/11/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6911492

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TIMOTHY BULK	09/04/2020
CHRISTOPHER HAYES	09/04/2020

RECEIVING PARTY DATA

Name:	SPECIAL AEROSPACE SERVICES, LLC	
Street Address:	3005 30TH ST.	
City:	BOULDER	
State/Country:	COLORADO	
Postal Code:	80301	

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	17013457
PCT Number:	US2020049588

CORRESPONDENCE DATA

Fax Number:

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: 17207879149

Email: rick@criticalpathiplaw.com

Correspondent Name: CRITICAL PATH IP LAW, C/O RICHARD ERIC ZELENKA

Address Line 1: PO BOX 371470, DENVER, CO 80237

Address Line 4: DENVER, COLORADO 80237

ATTORNEY DOCKET NUMBER:	2015-6	
NAME OF SUBMITTER:	RICHARD E. ZELENKA	
SIGNATURE:	/Richard E. Zelenka/	
DATE SIGNED:	09/11/2021	

Total Attachments: 2

source=Executed_Assignment_US17013457#page1.tif source=Executed_Assignment_US17013457#page2.tif

PATENT 506864670 REEL: 057455 FRAME: 0514

Worldwide Assignment

WHEREAS, We, Timothy Bulk and Christopher Hayes, have made an invention entitled "STAGED COMBUSTION LIQUID ROCKET ENGINE CYCLE WITH THE TURBOPUMP UNIT AND PREBURNER INTEGRATED INTO THE STRUCTURE OF THE COMBUSTION CHAMBER" for which We have prepared an application for Letters Patent of the United States, or filed an application for Letters Patent of the United States on 4 Sept. 2020, under Application No. 17/013, 457; and

WHEREAS, Special Aerospace Services, LLC, a corporation or other business entity duly registered in the State of Colorado, whose address is 3005 30th St., Boulder, CO 80301, desires to acquire the entire right, title, and interest in and to the invention, the application, and any Letters Patent to be granted for the invention in the United States and in all foreign countries;

NOW, THEREFORE, in view of good and valuable consideration, paid to me/us by ASSIGNEE, the receipt and sufficiency of which We acknowledge, We have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the invention, the application, all applications claiming benefit of the application, including, but not limited to, all divisions and continuation of the application, and all Letters Patent that may be granted thereon in the United States, and in all foreign countries, and all reissues thereof, together with the right to claim priority under the International Convention in all member countries; and We authorize and request the Director of Patents and Trademarks to issue all Letters Patent for the invention to ASSIGNEE, its successors, legal representatives, and assigns in accordance with the terms of this Assignment;

AND We covenant and agree that We have the full right to convey the entire right, title, and interest herein assigned and that We have not executed and will not execute any assignment or other instrument in conflict with this Assignment;

AND We further covenant and agree that upon request by ASSIGNEE, its successors, legal representatives, and/or assigns, and without further consideration, We will do all lawful acts that may be necessary or desirable to assist ASSIGNEE, its successors, legal representatives, and/or assigns to obtain and enforce patent protection for the invention in the United States and all foreign countries, including, but not limited to, communicate with ASSIGNEE, its successors, legal representatives, and/or assigns any facts known to me/us regarding the invention, testify in any legal proceeding, sign all lawful papers, execute and deliver all papers that may be necessary or desirable to perfect the title to the invention in ASSIGNEE, its successors, legal representatives, and/or assigns, execute all divisional, continuation, and reissue applications, and make all rightful oaths, it being understood that any expense incident to the rendering of such assistance will be borne by ASSIGNEE, its successors, legal representatives, and/or assigns;

AND We further hereby authorize ASSIGNEE, or its attorneys or agents, to insert the correct Application Number and filing Date into this Assignment, if none is indicated on that date of my/our execution of this agreement.

in witness whereof, we have executed this a:	spifiment on nic oste(s) mo	Cated Demons
CALOR M	•	
Signature:	Signature:	
Date: 520 bender 4, 2020	Date:	-
Full name: Thurthy A. Buck	Full name:	
Address: 3005 304 27	Address:	
X 1441, 000.		
Boulder, CO 80301	h-4-1	

Worldwide Assignment

WHEREAS, We, Timothy Bulk and Christopher Hayes, have made an invention entitled "STAGED COMBUSTION LIQUID ROCKET ENGINE CYCLE WITH THE TURBOPUMP UNIT AND PREBURNER INTEGRATED INTO THE STRUCTURE OF THE COMBUSTION CHAMBER" for which We have prepared an application for Letters Patent of the United States, or filed an application for Letters Patent of the United States on 4 Sept. 2020, under Application No. 17/013. 457; and

WHEREAS, Special Aerospace Services, LLC, a corporation or other business entity duly registered in the State of Colorado, whose address is 3005 30th St., Boulder, CO 80301, desires to acquire the entire right, title, and interest in and to the invention, the application, and any Letters Patent to be granted for the invention in the United States and in all foreign countries;

NOW, THEREFORE, in view of good and valuable consideration, paid to me/us by ASSIGNEE, the receipt and sufficiency of which We acknowledge, We have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the invention, the application, all applications claiming benefit of the application, including, but not limited to, all divisions and continuation of the application, and all Letters Patent that may be granted thereon in the United States, and in all foreign countries, and all reissues thereof, together with the right to claim priority under the International Convention in all member countries; and We authorize and request the Director of Patents and Trademarks to issue all Letters Patent for the invention to ASSIGNEE, its successors, legal representatives, and assigns in accordance with the terms of this Assignment;

AND We covenant and agree that We have the full right to convey the entire right, title, and interest herein assigned and that We have not executed and will not execute any assignment or other instrument in conflict with this Assignment;

AND We further covenant and agree that upon request by ASSIGNEE, its successors, legal representatives, and/or assigns, and without further consideration. We will do all lawful acts that may be necessary or desirable to assist ASSIGNEE, its successors, legal representatives, and/or assigns to obtain and enforce patent protection for the invention in the United States and all foreign countries, including, but not limited to, communicate with ASSIGNEE, its successors, legal representatives, and/or assigns any facts known to me/us regarding the invention, testify in any legal proceeding, sign all lawful papers, execute and deliver all papers that may be necessary or desirable to perfect the title to the invention in ASSIGNEE, its successors, legal representatives, and/or assigns, execute all divisional, continuation, and reissue applications, and make all rightful oaths, it being understood that any expense incident to the rendering of such assistance will be borne by ASSIGNEE, its successors, legal representatives, and/or assigns; ·

AND We further hereby authorize ASSIGNEE, or its attorneys or agents, to insert the correct Application Number and filing Date into this Assignment, if none is indicated on that date of my/our execution of this agreement.

N WITNESS WHEREOF, We have executed this	Assignment on the date(s) indicated below.
Signature:	Signature:
Date:	Date:
Full name:	Full name: Chastopher Hayes 701
Address:	Denver CO 80302

RECORDED: 09/11/2021

REEL: 057455 FRAME: 0516