#### 01/12/2022 507070774

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7117610

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
DANIEL RUDDY	01/07/2022
THOMAS DWIGHT FOUST	01/08/2022
TRENTON JOHN WILKE	01/07/2022
ANH THE TO	01/02/2022
ANDREW WOLF BARTLING	01/07/2022
MARTHA ARELLANO-TREVINO	01/12/2022

#### **RECEIVING PARTY DATA**

Name:	ALLIANCE FOR SUSTAINABLE ENERGY, LLC
Street Address:	15013 DENVER WEST PARKWAY
City:	GOLDEN
State/Country:	COLORADO
Postal Code:	80401

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

Property Type	Number
Application Number:	17546170

#### **CORRESPONDENCE DATA**

Fax Number: (303)384-7499

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: 3033847571

Email: ipdocketing@nrel.gov

ALLIANCE FOR SUSTAINABLE ENERGY, LLC **Correspondent Name:** 

Address Line 1: 15013 DENVER WEST PARKWAY Address Line 4: GOLDEN, COLORADO 80401

ATTORNEY DOCKET NUMBER:	NREL 20-61
NAME OF SUBMITTER:	NANCY RONZONE
SIGNATURE:	/Nancy Ronzone/
<b>DATE SIGNED:</b> 01/12/2022	
	This document serves as an Oath/Declaration (37 CFR 1.63).

# **Total Attachments: 6** source=20-61\_Combined\_Assignment\_and\_Declaration\_RUDDY#page1.tif

source=20-61\_Combined\_Assignment\_and\_Declaration\_FOUST#page1.tif

source=20-61\_Combined\_Assignment\_and\_Declaration\_WILKE#page1.tif

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source=20-61\_Combined\_Assignment\_and\_Declaration\_BARTLING#page1.tif

source=20-61\_Combined\_Assignment\_and\_Declaration\_ARELLANO-TREVINO#page1.tif

# **ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63**

	(For Use with Signed Appli	cation Data Sheet)
Title of Invention: REACTIONS AND METHO	DS FOR PRODUCING FUELS	
PCT International Appl	d above by the attorney docket no. a ication Number , file	ed
United States Application	on No. 17/546,170, filed <b>December</b>	9, 2021
	<u>ASSIGNMI</u>	ENT
	ration, the receipt and sufficiency of ed, and by these presents hereby se	f which are hereby acknowledged, as a below-named ll and assign, unto:
Name of Assignee: Allian	ce for Sustainable Energy, LLC	
Address of Assignee: 15013	Denver West Parkway, Golden,	CO 80401
embodiment thereof, in the Un and all countries of the world a including any and all application and all patents granted in the Usaid invention, including any a successors, or assigns to the fu	ited States and all foreign countries and through the Patent Cooperation ons claiming priority thereto such as inited States and all countries of the and all reissues or extensions thereof	he above-identified invention in any form or a including applications for patents in the United States Treaty and/or the European Patent Convention, a divisions or continuations thereof, and in and to any world that may issue on any such applications or for to be held and enjoyed by said ASSIGNEE, its any and all such patents may be granted as fully and gament not been made.
-	the Director of the U.S. Patent and GNEE, its successors, or assigns in	Trademark Office to issue any and all Letters Patent of accordance herewith.
	ave the full and unencumbered right d will not execute any document or	to sell and assign the interests herein sold and assigned instrument in conflict herewith.
all information known to me remake all rightful oaths, testify by said ASSIGNEE, its successincluding divisions and continureissues or extensions, in said A	elating to said invention or patent ap in any legal proceedings, and perfor sors, legal representatives, or assign nations thereof and to any and all pa	GNEE, its successors, legal representatives, or assigns plication and that I will execute and deliver any papers, m all other lawful acts deemed necessary or desirable s to perfect title to said invention, to said application tents that may be granted therefor or thereon, including as, or to assist said ASSIGNEE, its successors, legal ents for said invention.
<b>DECLARATION</b>		
As a below named inventor, I h	ereby declare that:	
The above-identified application	on was made or authorized to be ma	de by me.
I believe that I am the original	inventor or an original joint invento	r of a claimed invention in the application.
I hereby acknowledge that any or imprisonment of not more that		declaration is punishable under 18 U.S.C. 1001 by fine
Danil Healf	·	01/07/2022

Signature:

Inventor: Daniel RUDDY

PATENT REEL: 058632 FRAME: 0932

DATE

## ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63

(For Use with Signed Application Data Sheet)

REACTIONS AND METHODS FOR PRODUCIN	NG FUELS
This assignment and declaration are directed to (check the application identified above by the attorney PCT International Application Number   ☐ United States Application No. 17/546,170, file	y docket no. and title of invention , filed

#### **ASSIGNMENT**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, as a below-named inventor I have sold and assigned, and by these presents hereby sell and assign, unto:

Name of Assignee: Alliance for Sustainable Energy, LLC

Address of Assignee: 15013 Denver West Parkway, Golden, CO 80401

(hereinafter ASSIGNEE) all my right, title and interest in and to the above-identified invention in any form or embodiment thereof, in the United States and all foreign countries, including applications for patents in the United States and all countries of the world and through the Patent Cooperation Treaty and/or the European Patent Convention, including any and all applications claiming priority thereto such as divisions or continuations thereof, and in and to any and all patents granted in the United States and all countries of the world that may issue on any such applications or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, or assigns to the full end of the term or terms for which any and all such patents may be granted as fully and entirely as would have been held and enjoyed by me had this Assignment not been made.

I hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue any and all Letters Patent of the United States to said ASSIGNEE, its successors, or assigns in accordance herewith.

I warrant and covenant that I have the full and unencumbered right to sell and assign the interests herein sold and assigned and that I have not executed and will not execute any document or instrument in conflict herewith.

I further covenant and agree that I will communicate to said ASSIGNEE, its successors, legal representatives, or assigns all information known to me relating to said invention or patent application and that I will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings, and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives, or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all patents that may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns, or to assist said ASSIGNEE, its successors, legal representatives, or assigns in obtaining, reissuing, or enforcing patents for said invention.

## **DECLARATION**

**Title of Invention:** 

As a below named inventor, I hereby declare that:

The above-identified application was made or authorized to be made by me.

I believe that 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.

Signature: Thomas D. Foust	January 8, 2022
Inventor: Thomas Dwight FOUST	DATE

## ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63

(For Use with Signed Application Data Sheet)

REACTIONS AND METHODS FOR PRODUCT	NG FUELS
This assignment and declaration are directed to (chec	
the application identified above by the attorned	ey docket no. and title of invention
☐ PCT International Application Number	, filed
United States Application No. 17/546,170, fil	led December 9, 2021

#### **ASSIGNMENT**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, as a below-named inventor I have sold and assigned, and by these presents hereby sell and assign, unto:

Name of Assignee: Alliance for Sustainable Energy, LLC

Address of Assignee: 15013 Denver West Parkway, Golden, CO 80401

(hereinafter ASSIGNEE) all my right, title and interest in and to the above-identified invention in any form or embodiment thereof, in the United States and all foreign countries, including applications for patents in the United States and all countries of the world and through the Patent Cooperation Treaty and/or the European Patent Convention, including any and all applications claiming priority thereto such as divisions or continuations thereof, and in and to any and all patents granted in the United States and all countries of the world that may issue on any such applications or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, or assigns to the full end of the term or terms for which any and all such patents may be granted as fully and entirely as would have been held and enjoyed by me had this Assignment not been made.

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I further covenant and agree that I will communicate to said ASSIGNEE, its successors, legal representatives, or assigns all information known to me relating to said invention or patent application and that I will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings, and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives, or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all patents that may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns, or to assist said ASSIGNEE, its successors, legal representatives, or assigns in obtaining, reissuing, or enforcing patents for said invention.

### **DECLARATION**

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As a below named inventor, I hereby declare that:

The above-identified application was made or authorized to be made by me.

I believe that 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.

Signature:	Trenton Specification Wilke DNG-EUS, Specification Wilke		
Inventor: Trenton John WILKE	CN=Trenton Wilke Date: 2022.01.07 09:07:41 -08:00	DATE	

Worldwide Rights NREL 20-61

# ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63

	(For Use with Signer	d Application Data Sheet)
Title of Invention: REACTIONS AND M	ETHODS FOR PRODUCING F	UELS
the application in PCT Internation	claration are directed to (check one dentified above by the attorney docal Application Numberpplication No. 17/546,170, filed De	ket no. and title of invention , filed
	ASSI	GNMENT
	consideration, the receipt and sufficed assigned, and by these presents he	eiency of which are hereby acknowledged, as a below-named ereby sell and assign, unto:
Name of Assignee:	Alliance for Sustainable Energy	, LLC
Address of Assignee:	15013 Denver West Parkway, G	olden, CO 80401
embodiment thereof, in and all countries of the including any and all ap and all patents granted i said invention, including successors, or assigns to	the United States and all foreign coworld and through the Patent Coopering polications claiming priority thereto in the United States and all countries any and all reissues or extensions	and to the above-identified invention in any form or countries, including applications for patents in the United States seration Treaty and/or the European Patent Convention, o such as divisions or continuations thereof, and in and to any ses of the world that may issue on any such applications or for a thereof, to be held and enjoyed by said ASSIGNEE, its for which any and all such patents may be granted as fully and his Assignment not been made.
	request the Director of the U.S. Pat d ASSIGNEE, its successors, or ass	ent and Trademark Office to issue any and all Letters Patent of signs in accordance herewith.
		red right to sell and assign the interests herein sold and assigned ment or instrument in conflict herewith.
all information known t make all rightful oaths, by said ASSIGNEE, its including divisions and reissues or extensions, i	o me relating to said invention or p testify in any legal proceedings, ar successors, legal representatives, of continuations thereof and to any ar	d ASSIGNEE, its successors, legal representatives, or assigns patent application and that I will execute and deliver any papers, and perform all other lawful acts deemed necessary or desirable or assigns to perfect title to said invention, to said application and all patents that may be granted therefor or thereon, including or assigns, or to assist said ASSIGNEE, its successors, legal cing patents for said invention.
<b>DECLARATION</b>	•	
As a below named inves	ntor, I hereby declare that:	
The above-identified ap	pplication was made or authorized t	o be made by me.
I believe that I am the o	riginal inventor or an original joint	inventor of a claimed invention in the application.
-	hat any willful false statement mad more than five (5) years, or both.	e in this declaration is punishable under 18 U.S.C. 1001 by fine
Signature:	Uneamh .	01/02/2022

Signature: Anh The TO

**PATENT** REEL: 058632 FRAME: 0935

DATE

ľ

## ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63

(For Use with Signed Application Data Sheet)

Title of Invention:			
REACTIONS AND	METHODS FOR	PRODUCING	FUELS

his assignment and declaration are directed to (check one):		
the application identified above by the attorney docket n	o, and title	of invention
PCT International Application Number	, filed	200-1
United States Application No. 17/546,170, filed December	ber 9, 2021	

#### ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, as a below-named inventor I have sold and assigned, and by these presents hereby sell and assign, unto:

Name of Assignee:

Alliance for Sustainable Energy, LLC

Address of Assignee: 15013 Denver West Parkway, Golden, CO 80401

(hereinafter ASSIGNEE) all my right, title and interest in and to the above-identified invention in any form or embodiment thereof, in the United States and all foreign countries, including applications for patents in the United States and all countries of the world and through the Patent Cooperation Treaty and/or the European Patent Convention, including any and all applications claiming priority thereto such as divisions or continuations thereof, and in and to any and all patents granted in the United States and all countries of the world that may issue on any such applications or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, or assigns to the full end of the term or terms for which any and all such patents may be granted as fully and entirely as would have been held and enjoyed by me had this Assignment not been made.

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I further covenant and agree that I will communicate to said ASSIGNEE, its successors, legal representatives, or assigns all information known to me relating to said invention or patent application and that I will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings, and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives, or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all patents that may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns, or to assist said ASSIGNEE, its successors, legal representatives, or assigns in obtaining, reissuing, or enforcing patents for said invention.

#### DECLARATION

As a below named inventor, I hereby declare that:

The above-identified application was made or authorized to be made by me.

I believe that 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, gr.both.

Signature:

Inventor: Eadfew Wolf BARTLING

1/1/2022

1368 I W

## ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63

(For Use with Signed Application Data Sheet)

REACTIONS AND METHODS FOR PRODUC	ING FUELS
This assignment and declaration are directed to (che the application identified above by the attorn	
PCT International Application Number	•
☑ United States Application No. 17/546,170, fi	led December 9, 2021

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Address of Assignee: 15013 Denver West Parkway, Golden, CO 80401

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### **DECLARATION**

**Title of Invention:** 

As a below named inventor, I hereby declare that:

RECORDED: 01/12/2022

The above-identified application was made or authorized to be made by me.

I believe that 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.

Signature:	Marker anelles.	01/12/2021
Inventor:	Martha ARELLANO-TREVINO	DATE