506855376 09/07/2021

EPAS ID: PAT6902197

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ARNOLD W. SCHUMANN	09/01/2021
NATHAN BOYD	09/02/2021
JIALIN YU	09/03/2021

RECEIVING PARTY DATA

Name:	UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INCORPORATED
Street Address:	223 GRINTER HALL
City:	GAINESVILLE
State/Country:	FLORIDA
Postal Code:	32611

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16757159

CORRESPONDENCE DATA

Fax Number: (770)951-0933

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: 770 933-9500

Email: j.campbell@thip.law

THOMAS | HORSTEMEYER, LLP **Correspondent Name:**

Address Line 1: 3200 WINDY HILL ROAD

Address Line 2: SUITE 1600E

Address Line 4: ATLANTA, GEORGIA 30339

ATTORNEY DOCKET NUMBER:	222110-1045
NAME OF SUBMITTER:	MARLENA F. BURT
SIGNATURE:	/Marlena F. Burt/
DATE SIGNED:	09/07/2021
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 13

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Declaration and Assignment to UFRF Revised August 31, 2021 Exhibit E.03 T17014US003 (222110-1045)

DECLARATION AND ASSIGNMENT

As a below-named inventor, I/we hereby declare that I/we believe I/we am/are the original inventor(s) or an original joint inventor of a claimed invention in the patent application for United States letters patent, entitled, "DETECTION AND MANAGEMENT OF TARGET VEGETATION USING MACHINE VISION," (the "Invention") that

was signed by me/us on	(attached) and/or
was filed on <u>April 17, 2020</u> Serial No. <u>16/757, 159</u>	
(the "Application").	

The Application was made or authorized to be made by me/us, and I/we have reviewed and understand its contents, including the claims.

I/We hereby acknowledge the duty to disclose information that is material to patentability of the Invention in accordance with Title 37, Code of Federal Regulations, § 1.56.

I/We 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.

By virtue of my/our employment, appointment, or affiliation with the University of Florida (the "University") and pursuant to the University Intellectual Property Policy and my/our Intellectual Property Agreement with the University, I/we have assigned all my/our rights in the Invention to the University or its assignee or designee. I/We hereby acknowledge that the University has designated the University of Florida Research Foundation, Incorporated (the "Foundation"), having an office at 223 Grinter Hall, Gainesville, Florida 32611, to be the assignee of its entire right, title, and interest in the Invention.

THEREFORE, for valuable consideration, the sufficiency and receipt of which I/we hereby acknowledge, I/we confirm and ratify the sale, assignment, and transfer to the Foundation, its successors and assigns, all my/our rights in the Invention, the Application, and all other patent applications and patents for the Invention which may be applied for or granted, including, all divisional, continuing, substitute, renewal, reissue, reexamination, counterpart, substitute, extension, and all other application for letters patent which are or have been filed for the Invention in the United States, its territorial possessions, and all foreign countries and in all patents and extensions which may be granted for the Application.

I/We hereby authorize and request patent office officials in the United States and in all foreign countries to issue any patents that are granted for the Application to the Foundation as the assignee of my/our entire right, title, and interest in the patents.

I/We hereby assign to the Foundation, its successors and assigns, all of my/our rights to sue for and recover damages and profits with respect to past infringements or unauthorized uses

Declaration and Assignment to UFRF Revised August 31, 2021 Exhibit E.03 T17014US003 (222110-1045)

of any patent that issues on the Application or unpaid royalties with respect to use of any rights in the Application that occurred before the execution of this Assignment.

I/We agree that, in regard to the Application, I/we will communicate to the Foundation or its representatives any facts that are known to me/us; testify in any legal proceedings; sign all lawful papers; execute all divisional, continuing, substitute, renewal, reissue, and other application for letters patent; execute all necessary papers; make all rightful oaths; and generally do everything possible to aid the Foundation, its successors and assigns, to obtain and enforce all rights with respect to the Application in the United States, its territorial possessions, and all foreign countries.

Declaration and Assignment to UFRF Revised August 31, 2021	Exhibit E.03 T17014US003 (222110-1045)
Date: 9/1/2021 2:48 PM EDT	Signature: Arnold Sdumann Annold W. Schumann Address: 184 Waterview Circle Auburndale, FL 33823 Citizenship: US
WITNESS ONE: Date: 9/2/2021 8:32 AM EDT	Signature: Norda Schunan / Address: 184 Waterview Circle City, State, Zip Auburndale, FL 33823
WITNESS TWO: Date: 9/1/2021 2:54 PM EDT	Signature: <u>Janua Waldo</u> / Address: 124 Diamond Ridge Blvd. City, State, Zip Auburndale, FL 33823

Declaration and Assignment to UFRF

Date: 9/2/2021 | 8:59 AM EDT

T17014US003 (222110-1045) Revised August 31, 2021 Signature: Nathan Boyd Date: 9/2/2021 | 8:52 AM EDT Inventor: Nathan S. Boyd Address: 12116 Creek Preserve Drive Riverview, FL 33579 Citizenship: US WITNESS ONE: Signature: <u>Johanny Javala</u> Address: 3810 Sunnybank Drive Date: 9/2/2021 | 9:32 AM EDT City, State, Zip Valrico, FL 33594 WITNESS TWO: Signature: Trusk / Address: 554 Willow Run

City, State, Zip Lakeland, Florida 33813

Exhibit E.03

Declaration and Assignment to UFRF Revised August 31, 2021	FRF Exhibit E.03 T17014US003 (222110-1045)	
Date:	Signature: / / Inventor: Jialin Yu Address: 10923 Kensington Park Avenue Riverview, FL 33578 Citizenship: US	
WITNESS ONE:		
Date:	Signature: / / Address: City, State, Zip	_
WITNESS TWO:		
Date:	Signature: _/ / Address: City, State, Zip	_

DocuSign

Certificate Of Completion

Envelope Id: 401BA8F2C2AE436D851798A18A0C9C8E

Subject: Please DocuSign: T17014US003 (222110-1045) Declaration-Assignment.pdf

Source Envelope:

Document Pages: 5 Signatures: 6
Certificate Pages: 5 Initials: 0
AutoNav: Enabled Comments: yes

Envelopeld Stamping: Enabled

Time Zone: (UTC-05:00) Eastern Time (US &

Canada)

Envelope Originator: Adrienne L. Pennell 971 Elmore Drive, Rm 102

Status: Completed

PO Box 115250 Gainesville, FL 32611 alpadgett@ufl.edu

IP Address: 128.227.134.88

Record Tracking

Status: Original Holder: Adrienne L. Pennell Location: DocuSign

8/30/2021 3:06:45 PM alpadgett@ufl.edu

Signer Events Signature Timestamp

Arnold Schumann
schumaw@ufl.edu
University of Florida
Security Level: Email, Account Authentication

Sent: 8/30/2021 3:55:27 PM
Resent: 9/1/2021 2:42:13 PM
Viewed: 9/1/2021 2:45:23 PM
Signed: 9/1/2021 2:48:42 PM

(None) Signature Adoption: Pre-selected Style
Using IP Address: 166.130.37.53

Electronic Record and Signature Disclosure:

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 Nathan Boyd
 Sent: 8/30/2021 3:55:27 PM

 nsboyd@ufl.edu
 Nathan Boyd

 University of Florida
 Resent: 9/1/2021 2:42:13 PM

 Viewed: 8/31/2021 9:27:03 AM

Security Level: Email, Account Authentication (None)

Signature Adoption: Pre-selected Style
Using IP Address: 128.227.188.112

Electronic Record and Signature Disclosure:

Accepted: 7/25/2018 2:01:13 PM

ID: 6d229c49-1f47-457e-8236-4c8842e17e88

In Person Signer Events Signature	Timestamp
Editor Delivery Events Status	Timestamp
Agent Delivery Events Status	Timestamp
Intermediary Delivery Events Status	Timestamp
Certified Delivery Events Status	Timestamp
Carbon Copy Events Status	Timestamp

UF-US Assist
uf-usassist@thip.law
Security Level: Email, Account Authentication

(None)

Electronic Record and Signature Disclosure:

Not Offered via DocuSign

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Signed: 9/2/2021 8:52:22 AM

Witness Events	Signature	Timestamp
Johanny Zabala	^	Sent: 9/2/2021 8:52:24 AM
jzabala@ufl.edu	Johanny Jabala	Viewed: 9/2/2021 9:26:53 AM
Manager, Administrative Services	•	Signed: 9/2/2021 9:32:01 AM
University of Florida	O'contract of Adentics Burnalested Of In	
Manager, Administrative Services	Signature Adoption: Pre-selected Style	
3810 Sunnybank Drive Valrico, FL 33594	Using IP Address: 128.227.186.67	
Witness for Nathan Boyd (nsboyd@ufl.edu)		
Security Level:		
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lereuss@ufl.edu	Inuxa Peuss	Viewed: 9/2/2021 8:55:16 AM
University of Florida		Signed: 9/2/2021 8:59:39 AM
Biological Scientist	0	-
14625 CR 672 Wimauma, Florida 33598	Signature Adoption: Pre-selected Style	
Witness for Nathan Boyd (nsboyd@ufl.edu)	Using IP Address: 107.77.216.165	
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Laura Waldo	a 1	Sent: 9/1/2021 2:48:44 PM
ljwaldo@ufl.edu	Laura Waldo	Viewed: 9/1/2021 2:50:15 PM
University of Florida		Signed: 9/1/2021 2:54:06 PM
Lab Manager/Biological Scientist 3	Olegania Andreatica a December 1 Otalia	
124 Diamond Ridge Blvd., Auburndale, FL 33823	Signature Adoption: Pre-selected Style	
Witness for Arnold Schumann (schumaw@ufl.edu)	Using IP Address: 128.227.188.190	
Security Level:		
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Rhonda Schumann		Sent: 9/1/2021 2:48:44 PM
rschuman@ufl.edu	Rhonda Schumann	Viewed: 9/2/2021 8:30:24 AM
University of Florida		Signed: 9/2/2021 8:32:16 AM
Senior Chemist	Oleventure Adaptions Dun colonted Otale	
700 Experiment Station Road, Lake Alfred, Florida	Signature Adoption: Pre-selected Style	
33850	Using IP Address: 128.227.190.148	
Witness for Arnold Schumann (schumaw@ufl.edu)		
Security Level:		
Electronic Record and Signature Disclosure: Accepted: 8/1/2018 10:45:03 AM ID: 5b83995f-63df-49c8-9f6f-ca62fc843025		

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Certified Delivered	Security Checked	9/2/2021 8:30:24 AM
Signing Complete	Security Checked	9/2/2021 8:32:16 AM
Completed	Security Checked	9/3/2021 2:13:44 PM
Payment Events	Status	Timestamps
Electronic Record and Signature I)isclosure	

DISCLOSURE AND CONSENT TO USE ELECTRONIC DOCUMENTS AND SIGNATURES

From time to time, the University of Florida (we, us, our, or UF) may be required by law to provide you certain written notices or disclosures and may also choose to provide you with agreements, statements, authorizations, acknowledgments and other documents (collectively, "Documents"). Described below are the terms and conditions for providing such Documents electronically through the UFDocuSign electronic signing system. This supplements all other agreements you have with UF; however, in the case of any inconsistency, the terms herein shall control as applied to your consent to receive and sign Documents electronically through UFDocuSign. Please read the information below carefully and thoroughly, and if you can access this information electronically to your satisfaction and agree to these terms and conditions, please confirm your agreement by clicking the 'I agree' button at the bottom of this document. If you are agreeing on behalf of a business entity, you also agree that you have the requisite authority to consent to this Disclosure and Consent to Use Electronic Records and Signatures on behalf of the entity.

All Documents may be sent to you electronically

Unless you tell us otherwise, in accordance with the procedures described herein, we may, in our sole discretion, provide electronically to you through the UFDocuSign system all Documents that are required to be provided or made available to you during the course of our relationship. We may always, in our sole discretion, provide you with any Documents in paper form, even if you have chosen to receive it electronically.

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At any time, you may request a paper copy of any Document provided or made available electronically by us. You will have the ability to download and print documents we send to you through the UFDocuSign system during and immediately after the signing session. To request delivery from us of paper copies of the Document(s) previously provided electronically, you must send an e-mail reply to the sender of the electronic Document(s) and state your e-mail address, full name, US Postal address, and telephone number.

Withdrawing your consent

If you decide to receive Documents from us electronically, you may at any time change your mind and tell us that thereafter you want to receive Documents only in paper format. To indicate to us that you are changing your mind, you must withdraw your consent using the UFDocuSign 'Withdraw Consent' form on the signing page of an UFDocuSign envelope. This will indicate to us that you have withdrawn your consent to receive required notices and disclosures electronically. You will no longer be able to use the UFDocuSign system to receive Documents electronically from us or to electronically sign Documents from us.

If you withdraw your consent, it will become effective only after a reasonable period of time has passed to allow us to process such request. If you elect to receive Documents only in paper format, your withdrawal of consent will have no legal effect on the validity or enforceability of any Documents provided to you in electronic form or electronically signed by you through UFDocuSign prior to the effective date of your withdrawal. Withdrawing your consent means you will be sent and sign Documents in paper form going forward.

To inform us that you no longer want to receive future Documents in electronic form you may:
i. decline to sign a document from within your UFDocuSign session, and on the
subsequent page, select the check-box indicating you wish to withdraw your consent; or
ii. send us an e-mail to UF-DocuSign@ufl.edu and in the body of such request state your

e-mail, full name, US Postal Address, and telephone number. We do not need any other information from you to withdraw consent.

How to contact UF

You may contact us to let us know of changes to your electronic contact information, to request paper copies of certain information from us, and to withdraw your prior consent to receive Documents electronically as follows:

- To contact us by email send messages to: UF-DocuSign@ufl.edu
- To contact us by paper mail, please send correspondence to:

University of Florida Information Technology Attn: UFDocuSign Service P.O. Box 113359 Gainesville, FL 32611-3359

To advise UF of your new e-mail address

You agree to promptly update us regarding any change in your email address so that we may send Documents to you electronically, as needed. To let us know of a change in your e-mail address, you must send an email message to us at UF-DocuSign@ufl.edu and in the body of such request state: your previous e-mail address, your new e-mail address. You also agree to promptly update us regarding any change to your other contact information in the same manner described above.

In addition, you must notify UF to arrange for your new email address to be reflected in your UFDocuSign account by following the process for changing e-mail in the UFDocuSign system.

Required hardware and software

Operating Systems:	Windows® 2000, Windows® XP, Windows Vista®; Mac OS® X
Browsers:	Final release versions of Internet Explorer® 6.0 or above (Windows only); Mozilla Firefox 2.0 or above (Windows and Mac); Safari™ 3.0 or above (Mac only)
PDF Reader:	Acrobat® or similar software may be required to view and print PDF files
Screen Resolution:	800 x 600 minimum
Enabled Security Settings:	Allow per session cookies

These minimum requirements are subject to change. If these requirements change, you will be asked to re-accept the disclosure. Pre-release (e.g. beta) versions of operating systems and browsers are not supported.

Acknowledging your access and consent to receive Documents electronically

To confirm to us that you can access this information electronically, which will be similar to other electronic Documents that we will provide to you, please verify that you were able to read

this DISCLOSURE AND CONSENT TO USE ELECTRONIC DOCUMENTS AND SIGNATURES and that you also were able to print on paper or electronically save this page for your future reference and access or that you were able to e-mail this DISCLOSURE AND CONSENT TO USE ELECTRONIC DOCUMENTS AND SIGNATURES to an address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format on

the terms and conditions described above, please let us know by clicking the 'I agree' button below.

By checking the 'I agree' box, I confirm that:

- I can access and read this DISCLOSURE AND CONSENT TO USE ELECTRONIC DOCUMENTS AND SIGNATURES document; and
- I can print on paper the DISCLOSURE AND CONSENT TO USE ELECTRONIC DOCUMENTS AND SIGNATURES document or save or send it to a place where I can print it, for future reference and access; and
- I agree to the terms and conditions in this DISCLOSURE AND CONSENT TO USE ELECTRONIC DOCUMENTS AND SIGNATURES document; and
- Until or unless I notify UF as described above, I consent to receive exclusively through
 electronic means all Documents during the course of my relationship with UF under the
 terms and conditions set forth in this DISCLOSURE AND CONSENT TO USE
 ELECTRONIC DOCUMENTS AND SIGNATURES.

Declaration and Assignment to UFRF Revised September 3, 2021 Exhibit E.03 T17014US003 (222110-1045)

DECLARATION AND ASSIGNMENT

As a below-named inventor, I/we hereby declare that I/we believe I/we am/are the original inventor(s) or an original joint inventor of a claimed invention in the patent application for United States letters patent, entitled, "DETECTION AND MANAGEMENT OF TARGET VEGETATION USING MACHINE VISION," (the "Invention") that

was signed by me/us on	(attached) and/or
was filed on <u>April 17, 2020</u> Serial No. <u>16/757, 159</u>	
(the "Application").	

The Application was made or authorized to be made by me/us, and I/we have reviewed and understand its contents, including the claims.

I/We hereby acknowledge the duty to disclose information that is material to patentability of the Invention in accordance with Title 37, Code of Federal Regulations, § 1.56.

I/We 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.

By virtue of my/our employment, appointment, or affiliation with the University of Florida (the "University") and pursuant to the University Intellectual Property Policy and my/our Intellectual Property Agreement with the University, I/we have assigned all my/our rights in the Invention to the University or its assignee or designee. I/We hereby acknowledge that the University has designated the University of Florida Research Foundation, Incorporated (the "Foundation"), having an office at 223 Grinter Hall, Gainesville, Florida 32611, to be the assignee of its entire right, title, and interest in the Invention.

THEREFORE, for valuable consideration, the sufficiency and receipt of which I/we hereby acknowledge, I/we confirm and ratify the sale, assignment, and transfer to the Foundation, its successors and assigns, all my/our rights in the Invention, the Application, and all other patent applications and patents for the Invention which may be applied for or granted, including, all divisional, continuing, substitute, renewal, reissue, reexamination, counterpart, substitute, extension, and all other application for letters patent which are or have been filed for the Invention in the United States, its territorial possessions, and all foreign countries and in all patents and extensions which may be granted for the Application.

I/We hereby authorize and request patent office officials in the United States and in all foreign countries to issue any patents that are granted for the Application to the Foundation as the assignee of my/our entire right, title, and interest in the patents.

I/We hereby assign to the Foundation, its successors and assigns, all of my/our rights to sue for and recover damages and profits with respect to past infringements or unauthorized uses

Declaration and Assignment to UFRF Revised September 3, 2021 Exhibit E.03 T17014US003 (222110-1045)

of any patent that issues on the Application or unpaid royalties with respect to use of any rights in the Application that occurred before the execution of this Assignment.

I/We agree that, in regard to the Application, I/we will communicate to the Foundation or its representatives any facts that are known to me/us; testify in any legal proceedings; sign all lawful papers; execute all divisional, continuing, substitute, renewal, reissue, and other application for letters patent; execute all necessary papers; make all rightful oaths; and generally do everything possible to aid the Foundation, its successors and assigns, to obtain and enforce all rights with respect to the Application in the United States, its territorial possessions, and all foreign countries.

Declaration and Assignment to UFRF

Date: 9/3/2021 | 3:23 PM EDT

RECORDED: 09/07/2021

T17014US003 (222110-1045) Revised September 3, 2021 Date: 9/3/2021 | 3:17 下午 EDT Signature: / Inventor: Jialin Yu Address: 10923 Kensington Park Avenue Riverview, FL 33578 Citizenship: US WITNESS ONE: Signature: Marienne L. Pennell Date: 9/3/2021 | 3:22 PM EDT Address: 747 SW 2 Avenue City, State, Zip Gainesville FL 32601 WITNESS TWO: Signature: / John Byatt

Address:

City, State, Zip Gainesville FL 32601

5/5

Exhibit E.03