PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5580286

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SAVAS KAYA	02/13/2019
AVINASH KARANTH	02/15/2019
TALHA F. CANAN	02/13/2019

RECEIVING PARTY DATA

Name:	OHIO UNIVERSITY
Street Address:	340 WEST STATE STREET, UNIT 14
City:	ATHENS
State/Country:	OHIO
Postal Code:	45701

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16445824

CORRESPONDENCE DATA

Fax Number: (513)241-6234

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.

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WOOD HERRON & EVANS LLP **Correspondent Name:**

Address Line 1: 441 VINE STREET Address Line 2: 2700 CAREW TOWER Address Line 4: CINCINNATI, OHIO 45202

ATTORNEY DOCKET NUMBER:	OU-17023US
NAME OF SUBMITTER:	W. SCOTT GAINES
SIGNATURE:	/W. Scott Gaines/
DATE SIGNED:	06/19/2019

Total Attachments: 5

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PATENT REEL: 049521 FRAME: 0422

<u>USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT</u>

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As the below named inventor, I hereby declare that:

This Declaration is directed to:

The attached application
OR

X United States Application Number or PCT International Application
Number 62/686,844 filed on June 19, 2018.

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 above-identified application.

I have reviewed and understand the contents of the above-identified application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56.

Whereas, the undersigned inventor(s) has/have made certain inventions, improvements and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application;

Whereas, Ohio University, a College of the United States of America, having a place of business at 340 West State Street, Unit 14, Athens, Ohio 45701 (herein referred to as the "ASSIGNEE"), desires to acquire, and each undersigned inventor desires to grant to the ASSIGNEE, the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor ("ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the

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ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to the ASSIGNEE and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned inventor also hereby grants the ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of United States of America, and any disputes will be resolved in a court sited in United States of America.

In the event that the filing date and/or Application No. are not entered above at the time I execute this document, and if such information is deemed necessary, I hereby authorize and request the attorneys/agent(s) at Wood, Herron & Evans, LLP, 2700 Carew Tower, 441 Vine Street, Cincinnati, Ohio 45202-2917, to insert the filing date and/or Application No. of said application into this document.

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.

Savas Kaya		
600	Date:	02/13/19
Hilliard, Ohio, United States of America		
4733 Heath Trails Rd. Hilliard, OH 43026		
United States of America		
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)SS)		
	Hilliard, Ohio, United States of America 4733 Heath Trails Rd. Hilliard, OH 43026 United States of America	Hilliard, Ohio, United States of America 4733 Heath Trails Rd. Hilliard, OH 43026 United States of America

On this 12th day of February, 2019, before me personally appeared Savas Kaya to me known and known by me to be the above-named individual who acknowledged the signing of the foregoing instrument to be a voluntary act and deed and who executed the same for the uses and purposes therein specified.

Notary Public

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MARK FOLEY
NOTARY PUBLIC
STATE OF OHIO
Comm. Expires
06-26-2021

Legal name of inventor:	Avinash Karanth (formerly Avisnash Kodi)				
Inventor's Signature:	<u> </u>	Date:	2/1	5	10
Residence City/State/Country:	Athens, Ohio, United States of America				
Mailing Address:	322D Stocker Center Athens, OH 45701		***************************************		
Citizenship:	United States of America	Y000000ji.,			
STATE OF OHIO)) SS				
COUNTY OF)				
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Notary Public

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MARK FOLEY NOTARY PUBLIC STATE OF OHIO Comm. Expires 06-26-2021

Legal name of inventor:	Talha F. Canan	
Inventor's Signature:	HCAZA,	Date: 2/13/10
Residence City/State/Country:	Athens, Ohio, United States of America	
Mailing Address:	2 Andover Road, B04 Athens, OH 45701	
Citizenship:	United States of America	
STATE OF OHIO)	
COUNTY OF Arturs) SS)	
مال مال	- ·	

On this 13 day of February 20 19, before me personally appeared Talha F. Canan to me known and known by me to be the above-named individual who acknowledged the signing of the foregoing instrument to be a voluntary act and deed and who executed the same for the uses and purposes therein specified.

Notary Public

(SEAL)

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OF OF OTHER

MARK FOLEY NOTARY PUBLIC STATE OF OHIO Comm. Expires 06-26-2021