

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5313597

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CHRIS YAKOPCIC	10/17/2017
TAREK TAHA	10/17/2017
MD RAQIBUL HASAN	10/21/2017
RECEIVING PARTY DATA	
Name:	UNIVERSITY OF DAYTON
Street Address:	300 COLLEGE PARK
City:	DAYTON
State/Country:	OHIO
Postal Code:	45469
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16242146
CORRESPONDENCE DATA	
Fax Number:	(513)381-0205
<i>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.</i>	
Phone:	513-381-2838
Email:	Taft-IP-Docket@taftlaw.com
Correspondent Name:	TAFT STETTINIUS & HOLLISTER LLP
Address Line 1:	425 WALNUT STREET
Address Line 2:	SUITE 1800
Address Line 4:	CINCINNATI, OHIO 45202-3957
ATTORNEY DOCKET NUMBER:	UDRI-4
NAME OF SUBMITTER:	/TIANA L. POWELL/
SIGNATURE:	/Tiana L. Powell/
DATE SIGNED:	01/08/2019
This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 4	
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**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN PATENT APPLICATION
USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT**

Title of Invention: **ANALOG NEUROMORPHIC CIRCUITS FOR DOT-PRODUCT
OPERATION IMPLEMENTING RESISTIVE MEMORIES**

As the below named inventor, I hereby declare that:

This Declaration is directed to:

☐ The attached application

OR

☒ United States Application Number or PCT International Application

Number 15/650,145 filed on July 14, 2017

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, University of Dayton, a University of Ohio, having a place of business at 300 College Park, Dayton, Ohio 45469 (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 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.

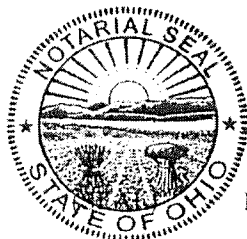
Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to the ASSIGNEE and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, 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 Ohio, and any disputes will be resolved in a court sited in Ohio.

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.

Legal name of Inventor: Chris Yakopcic
 Inventor's Signature: *Chris Yakopcic* Date: 10/17/17
 Residence
 City/State/Country: Dayton, OH, United States of America
 Mailing Address: 22 Van Buren Street, Dayton, OH 45402
 Citizenship: US

STATE OF OHIO)
 COUNTY OF MONTGOMERY) SS

On this 17th day of October, 2017, before me personally appeared **Chris Yakopcic**, 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.



Candise Jo Powell, Attorney At Law
 NOTARY PUBLIC - STATE OF OHIO
 My commission has no expiration date
 Sec. 147.03 R.C.

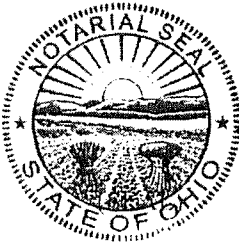
Candise Jo Powell
 Notary Public

My Commission Expires n/a

Legal name of Inventor: Tarek Taha
Inventor's Signature: [Signature] Date: 10/17/17
Residence
City/State/Country: Centerville, OH, United States of America
Mailing Address: 1191 Red Ash Court, Centerville, OH 45458
Citizenship: US

STATE OF OHIO)
COUNTY OF MONTGOMERY) SS

On this 17th day of October, 2017, before me personally appeared **Tarek Taha**, 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.



Candise Jo Powell, Attorney At Law
NOTARY PUBLIC - STATE OF OHIO
My commission has no expiration date
Sec. 147.03 R.C.

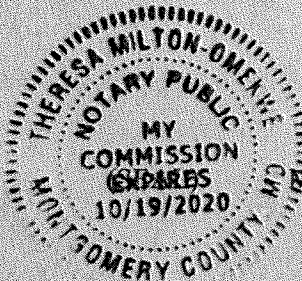
[Signature]
Notary Public

My Commission Expires n/a

Legal name of Inventor: Md Raqibul Hasan
Inventor's Signature: Raqibul Hasan Date: 10/21/2017
Residence
City/State/Country: Baltimore, MD, United States of America
Mailing Address: 4804 Westland Boulevard, Apt B, Baltimore, MD 21227
Citizenship: Bangladesh

STATE OF Maryland)
COUNTY OF Montgomery) SS

On this 21st day of Oct, 2017, before me personally appeared Md Raqibul Hasan, 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.



[Signature]
Notary Public

My Commission Expires 10/19/2020

Theresa Milton-Omekwe
NOTARY PUBLIC
Montgomery County, Maryland
My Commission Expires 10/19/2020