

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6663016

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
RAPHAEL JOSEPH WELSH	03/25/2021
DOUGLAS A. THORNTON	03/25/2021
DANIEL A. PERKINS	03/29/2021
MICAH BLUE	03/29/2021
AMY M. HEINTZ	04/01/2021
DANIEL G. LOESCH	03/25/2021
RECEIVING PARTY DATA	
Name:	BATTELLE MEMORIAL INSTITUTE
Street Address:	505 KING AVENUE
City:	COLUMBUS
State/Country:	OHIO
Postal Code:	43201
PROPERTY NUMBERS Total: 5	
Property Type	Number
Application Number:	17141796
Application Number:	16858125
Application Number:	16858169
Application Number:	16858206
PCT Number:	US2029760
CORRESPONDENCE DATA	
Fax Number:	(216)363-9001
<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:	2163639000
Email:	docketing@faysharpe.com
Correspondent Name:	FAY SHARPE LLP
Address Line 1:	1228 EUCLID AVE FL 5
Address Line 4:	CLEVELAND, UNITED STATES 44115-1834
ATTORNEY DOCKET NUMBER:	BATZ 161US01,02,03,04,WO

NAME OF SUBMITTER:	RICHARD M. KLEIN
SIGNATURE:	/Richard M. Klein/
DATE SIGNED:	04/19/2021
Total Attachments: 42 source=18175_Assignment_BATZ161US01_04#page1.tif source=18175_Assignment_BATZ161US01_04#page2.tif source=18175_Assignment_BATZ161US01_04#page3.tif source=18175_Assignment_BATZ161US01_04#page4.tif source=18175_Assignment_BATZ161US01_04#page5.tif source=18175_Assignment_BATZ161US01_04#page6.tif source=18175_Assignment_BATZ161US01_04#page7.tif source=18175_Assignment_BATZ161US01_04#page8.tif source=18175_Assignment_BATZ161US01_04#page9.tif source=18175_Assignment_BATZ161US01_04#page10.tif source=18175_Assignment_BATZ161US01_04#page11.tif source=18175_Assignment_BATZ161US01_04#page12.tif source=18175_Assignment_BATZ161US01_04#page13.tif source=18175_Assignment_BATZ161US01_04#page14.tif source=18175_Assignment_BATZ161US01_04#page15.tif source=18175_Assignment_BATZ161US01_04#page16.tif source=18175_Assignment_BATZ161US01_04#page17.tif source=18175_Assignment_BATZ161US01_04#page18.tif source=18175_Assignment_BATZ161US01_04#page19.tif source=18175_Assignment_BATZ161US01_04#page20.tif source=18175_Assignment_BATZ161US01_04#page21.tif source=18175_Assignment_BATZ161US01_04#page22.tif source=18175_Assignment_BATZ161US01_04#page23.tif source=18175_Assignment_BATZ161US01_04#page24.tif source=18175_Assignment_BATZ161US01_04#page25.tif source=18175_Assignment_BATZ161US01_04#page26.tif source=18175_Assignment_BATZ161US01_04#page27.tif source=18175_Assignment_BATZ161US01_04#page28.tif source=18175_Assignment_BATZ161US01_04#page29.tif source=18175_Assignment_BATZ161US01_04#page30.tif source=18175_Assignment_BATZ161US01_04#page31.tif source=18175_Assignment_BATZ161US01_04#page32.tif source=18175_Assignment_BATZ161US01_04#page33.tif source=18175_Assignment_BATZ161US01_04#page34.tif source=18175_Assignment_BATZ161US01_04#page35.tif source=18175_Assignment_BATZ161US01_04#page36.tif source=18175_Assignment_BATZ161US01_04#page37.tif source=18175_Assignment_BATZ161US01_04#page38.tif source=18175_Assignment_BATZ161US01_04#page39.tif source=18175_Assignment_BATZ161US01_04#page40.tif source=18175_Assignment_BATZ161US01_04#page41.tif source=18175_Assignment_BATZ161US01_04#page42.tif	

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/We, the undersigned, **Raphael Joseph Welsh** of Powell, OH, **Douglas A. Thornton** of Upper Arlington, OH, **Daniel A. Perkins** of Lewis Center, OH, **Micah Blue** of Columbus, OH, **Amy M. Heintz** of Dublin, OH, **Daniel G. Loesch** of Sunbury, OH

who has/have created a certain invention for which an application for United States Letters Patent has been

- ☐ executed concurrently herewith
- ☐ executed on _____
- ☒ filed as U.S. Serial No. 16/858,125, 16/858,169 and 16/858,206 on April 24, 2020
- ☐ filed as International Application No. _____ on _____

and is entitled

SYSTEMS AND METHODS FOR SIGNAL COMMUNICATION WITH SCALABLE, MODULAR NETWORK NODES

Do hereby sell, assign and transfer to Battelle Memorial Institute, having a place of business at 505 King Avenue, Columbus, OH 43201, (hereinafter Assignee) its successors, assigns, and legal representatives, the full and exclusive right, title, and interest in and to said invention and said application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States, its territorial possessions and all foreign countries; and in and to any and all continuations-in-part, continuations, divisions, substitutes, reissues, reexaminations, extensions thereof, and all other forms of protection relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties, including all future conventions, unions agreements, acts, and treaties;

Agree that said Assignee may apply for and receive Letters Patent for said invention, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of said Assignee, its successors, assigns and legal representatives, the undersigned will execute all continuations-in-part, continuations, divisions, substitutes, reexaminations, reissues, and extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in

securing, maintaining and enforcing proper patent protection for said invention and for vesting title to said invention and all applications for patents on said invention in said Assignee, its successors, assigns, or legal representatives; and

Consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Assignee to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

IN TESTIMONY WHEREOF I/WE have hereunto set MY/OUR signature(s) on the date(s) indicated below.

Signed at the City of Columbus State of Ohio
on this ²⁵ March day of March, 2021.

Raphael Joseph Welsh

Raphael Joseph Welsh

Witnesses:

Roger Kanke

Roger Kanke

Printed Name: _____

Micah J. Meleski

Micah J. Meleski

Printed Name: _____

Signed at the City of _____ State of _____
on this _____ day of _____, 2021.

Douglas A. Thornton

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of _____ State of _____
on this _____ day of _____, 2021.

Daniel A. Perkins

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of _____ State of _____
on this _____ day of _____, 2021.

Micah Blue

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of _____ State of _____
on this _____ day of _____, 2021.

Amy M. Heintz

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of _____ State of _____
on this _____ day of _____, 2021.

Daniel G. Loesch

Witnesses:

Printed Name: _____

Printed Name: _____

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/We, the undersigned, **Raphael Joseph Welsh** of Powell, OH, **Douglas A. Thornton** of Upper Arlington, OH, **Daniel A. Perkins** of Lewis Center, OH, **Micah Blue** of Columbus, OH, **Amy M. Heintz** of Dublin, OH, **Daniel G. Loesch** of Sunbury, OH

who has/have created a certain invention for which an application for United States Letters Patent has been

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IN TESTIMONY WHEREOF I/WE have hereunto set MY/OUR signature(s) on the date(s) indicated below.

Signed at the City of _____ State of _____
on _____.

Raphael Joseph Welsh

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of upper Arlington State of ohio
on March 25, 2021.

Douglas A. Thornton /

Douglas A. Thornton

Witnesses:

Stephanie Thornton /

Stephanie Thornton
Printed Name: _____

Cheryl-Lynn May /

Cheryl-Lynn May
Printed Name: _____

Signed at the City of _____ State of _____
on _____.

Daniel A. Perkins

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of _____ State of _____
on _____.

Micah Blue

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of _____ State of _____
on _____.

Amy M. Heintz

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of _____ State of _____
on _____.

Daniel G. Loesch

Witnesses:

Printed Name: _____

Printed Name: _____

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/We, the undersigned, **Raphael Joseph Welsh** of Powell, OH, **Douglas A. Thornton** of Upper Arlington, OH, **Daniel A. Perkins** of Lewis Center, OH, **Micah Blue** of Columbus, OH, **Amy M. Heintz** of Dublin, OH, **Daniel G. Loesch** of Sunbury, OH

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IN TESTIMONY WHEREOF I/WE have hereunto set MY/OUR signature(s) on the date(s) indicated below.

Signed at the City of _____ State of _____
on _____.

Raphael Joseph Welsh

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of _____ State of _____
on _____.

Douglas A. Thornton

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of Lewis Center State of ohio
on March 29, 2021
on _____.

/Daniel A. Perkins/
Daniel A. Perkins

Witnesses:

Cheryl-Lynn May
Cheryl-Lynn May
Printed Name: _____

Ray Welsh
Ray Welsh
Printed Name: _____

Signed at the City of _____ State of _____
on _____.

Micah Blue

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of _____ State of _____
on _____.

Amy M. Heintz

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of _____ State of _____
on _____.

Daniel G. Loesch

Witnesses:

Printed Name: _____

Printed Name: _____

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Signed at the City of _____ State of _____
on _____.

Raphael Joseph Welsh

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of _____ State of _____
on _____.

Douglas A. Thornton

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of _____ State of _____
on _____.

Daniel A. Perkins

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of Columbus State of Ohio
on March 29, 2021.

Micah P Blue

Micah Blue

Witnesses:

Katrina Miceli

Katrina Miceli

Printed Name: _____

Micah J Meleski

Micah J Meleski

Printed Name: _____

Signed at the City of _____ State of _____
on _____.

Amy M. Heintz

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of _____ State of _____
on _____.

Daniel G. Loesch

Witnesses:

Printed Name: _____

Printed Name: _____

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Signed at the City of _____ State of _____
on _____.

Raphael Joseph Welsh

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of _____ State of _____
on _____.

Douglas A. Thornton

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of _____ State of _____
on _____.

Daniel A. Perkins

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of _____ State of _____
on _____.

Micah Blue

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of _____ State of _____
on April 1, 2021 _____.

/Amy M. Heintz/
Amy M. Heintz

Witnesses:

LoriAnn Wilson
Printed Name: LoriAnn Wilson

Jessica Mickey
Printed Name: Jessica Mickey

Signed at the City of _____ State of _____
on _____.

Daniel G. Loesch

Witnesses:

Printed Name: _____

Printed Name: _____

ASSIGNMENT

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on _____.

Raphael Joseph Welsh

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of _____ State of _____
on _____.

Douglas A. Thornton

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of _____ State of _____
on _____.

Daniel A. Perkins

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of _____ State of _____
on _____.

Micah Blue

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of _____ State of _____
on _____.

Amy M. Heintz

Witnesses:

Printed Name: _____

Printed Name: _____

Signed at the City of Sunbury State of ohio
on March 25, 2021.

Daniel G. Loesch

Daniel G. Loesch

Witnesses:

Micah J. Meleski

Printed Name: Micah J. Meleski

Roger Kanke

Printed Name: Roger Kanke