

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CHENG ZHANG	08/18/2021
OMER INAN	08/18/2021
PRANAV KUNDRA	10/01/2021
THOMAS PLOETZ	10/06/2021
YIMING PU	01/13/2022
THAD EUGENE STARNER	08/18/2021
XIAOXUAN WANG	08/18/2021
KENNETH A CUNEFARE	03/09/2020
QIUYUE XUE	08/09/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	GEORGIA TECH RESEARCH CORPORATION
<b>Street Address:</b>	926 DALNEY STREET NW
<b>City:</b>	ATLANTA
<b>State/Country:</b>	GEORGIA
<b>Postal Code:</b>	30318
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16644651
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
<b>Email:</b>	ronna.berman@troutman.com
<b>Correspondent Name:</b>	TROUTMAN PEPPER HAMILTON SANDERS LLP
<b>Address Line 1:</b>	600 PEACHTREE STREET, NE
<b>Address Line 2:</b>	SUITE 3000
<b>Address Line 4:</b>	ATLANTA, GEORGIA 30308
<b>ATTORNEY DOCKET NUMBER:</b>	011529.113526 (GTRC7659)
<b>NAME OF SUBMITTER:</b>	RYAN A. SCHNEIDER

<b>SIGNATURE:</b>	/Ryan A. Schneider, Reg. #45083/
<b>DATE SIGNED:</b>	01/14/2022
<b>Total Attachments: 11</b> source=7659 - Exeucted US Assignment#page1.tif source=7659 - Exeucted US Assignment#page2.tif source=7659 - Exeucted US Assignment#page3.tif source=7659 - Exeucted US Assignment#page4.tif source=7659 - Exeucted US Assignment#page5.tif source=7659 - Exeucted US Assignment#page6.tif source=7659 - Exeucted US Assignment#page7.tif source=7659 - Exeucted US Assignment#page8.tif source=7659 - Exeucted US Assignment#page9.tif source=7659 - Exeucted US Assignment#page10.tif source=7659 - Exeucted US Assignment#page11.tif	

## **ASSIGNMENT**

WHEREAS, We, **Cheng ZHANG, Gregory D. ABOWD, Omer INAN, Pranav KUNDRA, Thomas PLOETZ, Yiming PU, Thad Eugene STARNER, Anandghan WAGHMARE, Xiaoxuan WANG, Kenneth A. CUNEFARE, and Qiuyue XUE** (“Assignors”), have invented certain improvements in “**Systems, Methods And Devices For Gesture Recognition**,” for which an Application was filed **March 5, 2020**, and provided U.S. Application No. **16/644,651**, claiming priority to International Application No. **PCT/US2018/049740**, filed on **September 6, 2018**, which claims priority to U.S. Provisional Patent Application No. **62/554,686** filed **September 6, 2017**, and to U.S. Provisional Patent Application No. **62/568,417**, filed **October 5, 2017**, and for which future applications may be filed, (collectively referred to as the “Application”), and whereas

**GEORGIA TECH RESEARCH CORPORATION**  
**926 Dalney Street NW**  
**Atlanta, Georgia 30318**  
**United States**

(“Assignee”) desires to purchase all of Assignor’s rights in same;

**NOW THEREFORE**, in consideration of the sum of One Dollar (\$1.00) and other good and valuable considerations paid by the said Assignee, the receipt and sufficiency of which are hereby acknowledged, Assignors have and by these presents do hereby sell, assign, transfer and convey unto said Assignee all of Assignors’ rights, title, and interest in and to said Application, including in and to any conventional, division, continuation, continuation-in-part, substitution, reissue, renewal, re-exam, continued prosecution application (“CPA”), or request for continued examination (“RCE”) thereof, and in and to all inventions and improvements thereon (herein collectively referred to as “Related US Applications”), preparatory to obtaining Letters Patent of the United States therefore; and Assignors hereby request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States resulting from said Application and Related US Applications, to Assignee, for its interest and for the sole use and benefit of Assignee and its assigns and legal representatives.

**For the same consideration**, Assignors, by these presents do sell, assign, and transfer to Assignee all of Assignors’ rights, title and interest in and to any foreign and international applications related to and/or seeking benefit of said Application and Related US Applications, and in and to all inventions and improvements thereon (herein collectively referred to as “Related Foreign Applications”), in and to any Letters Patent and similar protective rights granted on said Related Foreign Applications, and in and to the right to claim any applicable priority rights arising from or required for said Related Foreign Applications under the terms of any applicable conventions, treaties, statutes, or regulations, said Related Foreign Applications to be filed and issued in the name of Assignee or its designee, insofar as permitted by applicable law.

**For the same consideration**, Assignors agree, without charge to Assignee, but at Assignee’s expense, to sign all lawful papers, execute said Application, Related US Applications and Related Foreign Applications, make all assignments and rightful oaths, assist in prosecution of said Application, Related US Applications and Related Foreign Applications, assist in prosecution of legal proceedings, and generally do everything reasonably possible to aid Assignee its

successors, assigns, and nominees, to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_ day of  
8/18/2021, 2020.

\_\_\_\_\_  
Cheng ZHANG (SEAL)

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name of Witness

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name of Witness

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

IN WITNESS WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_ day of  
\_\_\_\_\_, 2020.

\_\_\_\_\_  
Cheng ZHANG (SEAL)

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_ day of \_\_\_\_\_, 2020, before me, a notary public, came to me known  
and known to be the individual described in and who executed the foregoing assignment, and he  
duly acknowledged the same to be his free act and deed.

\_\_\_\_\_  
NOTARY PUBLIC

(SEAL)

My Commission Expires:

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 8/18/2021 day of \_\_\_\_\_, 2020.

Omer T. Inan (SEAL)  
**Omer INAN**

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature

\_\_\_\_\_  
**Printed Name of Witness**

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature

\_\_\_\_\_  
**Printed Name of Witness**

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

IN WITNESS WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2020.

\_\_\_\_\_  
**Omer INAN**

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_ day of \_\_\_\_\_, 2020, before me, a notary public, came to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

\_\_\_\_\_  
**NOTARY PUBLIC**

(SEAL)

My Commission Expires:

IN WITNESS WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2020.

\_\_\_\_\_(SEAL)  
**Pranav KUNDRA**

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature

\_\_\_\_\_  
**Printed Name of Witness**

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature

\_\_\_\_\_  
**Printed Name of Witness**

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

IN WITNESS WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_ day of 10/1/2021, 2020.

  
\_\_\_\_\_(SEAL)  
**Pranav KUNDRA**

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_ day of \_\_\_\_\_, 2020, before me, a notary public, came to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

\_\_\_\_\_  
**NOTARY PUBLIC**

(SEAL)

My Commission Expires:

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 10/6/2021 day of October, 2020.

*Thomas Ploetz*

**Thomas PLOETZ**

(SEAL)

Witnessed by: \_\_\_\_\_

Date: \_\_\_\_\_

Signature

\_\_\_\_\_  
**Printed Name of Witness**

Witnessed by: \_\_\_\_\_

Date: \_\_\_\_\_

Signature

\_\_\_\_\_  
**Printed Name of Witness**

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

IN WITNESS WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2020.

(SEAL)

**Thomas PLOETZ**

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_ day of \_\_\_\_\_, 2020, before me, a notary public, came to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

\_\_\_\_\_  
**NOTARY PUBLIC**

(SEAL)

My Commission Expires:



IN WITNESS WHEREOF, I have hereunto set my hand and seal this 1/13/2022 day of \_\_\_\_\_, 2020.

Yiming PU (SEAL)  
**Yiming PU**

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature

\_\_\_\_\_  
**Printed Name of Witness**

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature

\_\_\_\_\_  
**Printed Name of Witness**

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

IN WITNESS WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2020.

\_\_\_\_\_  
**Yiming PU**

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 2020, before me, a notary public, came to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

\_\_\_\_\_  
**NOTARY PUBLIC**

(SEAL)

My Commission Expires:

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 8/18/2021 day of \_\_\_\_\_, 2020.

Thad Eugene Starn (SEAL)  
**Thad Eugene STARNER**

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature

\_\_\_\_\_  
**Printed Name of Witness**

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature

\_\_\_\_\_  
**Printed Name of Witness**

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

IN WITNESS WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2020.

\_\_\_\_\_  
**Thad Eugene STARNER** (SEAL)

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 2020, before me, a notary public, came to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

\_\_\_\_\_  
**NOTARY PUBLIC**

(SEAL)

My Commission Expires:

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 8/18/2021 day of \_\_\_\_\_, 2020.

Xiaoxuan Wang

(SEAL)

**Xiaoxuan WANG**

Witnessed by: \_\_\_\_\_

Date: \_\_\_\_\_

Signature

\_\_\_\_\_  
**Printed Name of Witness**

Witnessed by: \_\_\_\_\_

Date: \_\_\_\_\_

Signature

\_\_\_\_\_  
**Printed Name of Witness**

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

IN WITNESS WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2020.

(SEAL)

**Xiaoxuan WANG**

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_ day of \_\_\_\_\_, 2020, before me, a notary public, came to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

\_\_\_\_\_  
**NOTARY PUBLIC**

(SEAL)

My Commission Expires:

IN WITNESS WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2020.

\_\_\_\_\_  
(SEAL)  
**Kenneth A. CUNEFARE**

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name of Witness

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name of Witness

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 9<sup>th</sup> day of March, 2020.

*Kenneth A. Cunefare*  
(SEAL)  
**Kenneth A. CUNEFARE**

State of GEORGIA

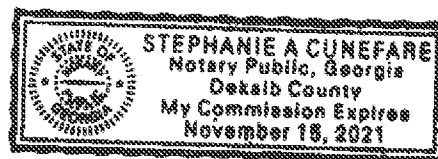
County of DEKALB

On this 9<sup>th</sup> day of MARCH, 2020, before me, a notary public, came to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

*Stephanie A. Cunefare*  
NOTARY PUBLIC

(SEAL)

My Commission Expires:



IN WITNESS WHEREOF, I have hereunto set my hand and seal this 9th day of March, 2020.

Witnessed by: [Signature] Qiuyue XUE (SEAL)  
Signature Date: 03/09/2020

MING LIU  
Printed Name of Witness

Witnessed by: [Signature] Date: 03/09/2020  
Signature

JUSTIN CHAN  
Printed Name of Witness

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

IN WITNESS WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2020.

\_\_\_\_\_  
(SEAL)  
Qiuyue XUE

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 2020, before me, a notary public, came to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

\_\_\_\_\_  
NOTARY PUBLIC

(SEAL)

My Commission Expires: