505674479 09/16/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5721286

SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY DA	ATA			
		Name	Execution Date	
PARHAM NOORZAD			08/08/2019	
MICHELLE EFFROS			08/14/2019	
RECEIVING PARTY DA	ТА			
Name:	1	RNIA INSTITUTE OF TECHNOLOGY		
Street Address:	1200 E. CALIFORNIA BOULEVARD			
Internal Address:	M/C 6-32			
City:	PASADENA			
State/Country:	CALIFORNIA			
Postal Code:	91125			
PROPERTY NUMBERS	Total: 1			
	Total: 1	Number		
PROPERTY NUMBERS Property Type Application Number:		Number 5984161		
Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p	ATA (Se sent to a provided;	5984161 949)852-0004 the e-mail address first; if that is unsu if that is unsuccessful, it will be sent		
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Property Type Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	ATA (9 e sent to to provided; 9 k 2 S A	5984161 949)852-0004 <i>the e-mail address first; if that is unsu</i> <i>if that is unsuccessful, it will be sent</i> 498520000 pair@kppb.com KPPB LLP 190 S. TOWNE CENTRE PLACE SUITE 300		
Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	ATA (9 e sent to to provided; 9 k 2 S A	5984161 949)852-0004 the e-mail address first; if that is unsu if that is unsuccessful, it will be sent 498520000 vair@kppb.com CPPB LLP 190 S. TOWNE CENTRE PLACE SUITE 300 NAHEIM, CALIFORNIA 92806		

Total Attachments: 9

DATE SIGNED:

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09/16/2019

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RECORDATION FORM COVER SHEET PATENTS ONLY			
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.			
2. Name and address of receiving party(ies) Name: <u>California Institute of Technology</u> Internal Address: <u>M/C 6-32</u>			
Street Address: <u>1200 E. California Boulevard</u> City: <u>Pasadena</u> State: <u>CA</u> Country: <u>US</u> Zip: <u>91125</u> Additional name(s) & address(es) attached? Yes			
document serves as an Oath/Declaration (37 CFR 1.63). B. Patent No.(s)			
6. Total number of applications and patents involved:			
7. Total fee (37 CFR 1.21(h) & 3.41) \$			
Authorized to be charged to deposit account			
Enclosed None required (government interest not affecting title)			
8. Payment Information			
Deposit Account Number Authorized UserName			
September 16, 2019			
Date Total number of pages including cover sheet, attachments, and documents: 9 et) should be faxed to (571) 273-0140, or mailed to: of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450 PATENT			

REEL: 050393 FRAME: 0124

ASSIGNMENT AGREEMENT

WHEREAS, I/We, Parham Noorzad and Michelle Effros (Assignor(s)) have made certain new and useful inventions, improvement and/or designs set forth in an application for Letters Patent of the United States entitled Systems and Methods for Transmitting Data Using Encoder Cooperation in the Presence of State Information, filed on May 18, 2018 and having been assigned Application No. 15/984,161 (Assigned Patent Application);

WHEREAS, California Institute of Technology, a California corporation, having a place of business at 1200 E. California Boulevard, M/C 6-32, Pasadena, California 91125 (Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions, improvement and/or designs and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;

NOW, THEREFORE, Assignor(s) and Assignee do hereby enter into the following Assignment Agreement.

1. Definitions

The Assigned Patent Rights means certain new and useful inventions, improvements, and designs made by the Assignor(s) for which the Assigned Patent Application has been or will be filed.

The Assigned Patent Rights also includes:

- the Assigned Patent Application;
- all Letters Patent granted based upon an application for Letters Patent forming part of the Assigned Patent Rights;
- any inventions, improvements, and designs disclosed by an application for Letters Patent forming part of the Assigned Patent Rights;
- any provisional patent application to which priority is claimed under 35 U.S.C. § 119(e) by an application for Letters Patent forming part of the Assigned Patent Rights and any conversion under 37 C.F.R. 1.53(c)(2) or (3) that has not previously been assigned by the Assignor(s);
- all divisionals, continuations, continuations-in-part, and any design patent application claiming priority to an application for Letters Patent forming part of the Assigned Patent Rights;
- any revival, reissue, reexamination, renewal or extension of an application for Letters Patent forming part of the Assigned Patent Rights;

- any substitute application filed based upon an application for Letters Patent forming part of the Assigned Patent Rights;
- any priority rights associated with an application for Letters Patent forming part of the Assigned Patent Rights, including priority under International Agreements, Treaties and Conventions for the protection of intellectual property in its various forms and all applications in which a right of priority is claimed and any Letters Patent, Design Patent, Utility Model, or equivalent granted therefrom;
- any legal equivalents of priority rights associated with an application for Letters Patent forming part of the Assigned Patent Rights, including priority under International Agreements, Treaties and Conventions for the protection of intellectual property in its various forms and all applications in which a right of priority is claimed and any Letters Patent, Design Patent, Utility Model, or equivalent granted therefrom; and
- any right to sue for infringement of any right arising from the filing of an application for Letters Patent forming part of the **Assigned Patent Rights**.

2. Assignment of the Assigned Patent Rights

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, **Assignor(s)** confirm that they have and/or otherwise do hereby sell, assign, and transfer to **Assignee**, and the successors, and assigns of the **Assignee** all right, title, and interest in and to the **Assigned Patent Rights** for the United States and its territorial possessions and in all foreign countries.

3. Cooperation Agreement

The Assignor(s) further agree without further or additional consideration, but at the expense of Assignee, to:

- promptly provide Assignee, upon request, with all pertinent facts and documents relating to the Assigned Patent Rights, including, but not limited to, copies of any documents evidencing conception and/or reduction to practice within Assignor(s)' possession;
- cooperate with Assignee in the protection and prosecution of the Assigned Patent Rights;
- testify with respect to all pertinent facts and documents relating to the Assigned Patent Rights in any interference, post grant review, inter partes review, litigation, or proceeding relating thereto;

- review, execute, verify, acknowledge and deliver to Assignee or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue, or enforce the Assigned Patent Rights; and
- perform such other acts as Assignee lawfully may request to obtain or maintain the Assigned Patent Rights.

4. Assignor(s) Representations

The **Assignor(s)** hereby represent and warrant that they have not entered into any assignment, license agreement, sale agreement, or encumbrance that conflicts with the assignment of the **Assigned Patent Rights**.

5. Authorization to issue patents in name of Assignee

The Assignor(s) and Assignee hereby confirm that the assignment to the Assignee of all rights in the Assigned Patent Rights includes authorization by the Assignor(s) for the United States Commissioner of Patents and Trademarks, and officials of any other country whose duty it is to issue patents on applications, to issue any Letters Patent arising from the Assigned Patent Rights to the Assignee, its successors, or assigns.

Assignor(s) grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

This **Assignment** may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same **Assignment**.

X.

IN TESTIMONY WHEREOF, I, Parham Noorzad, hereunto set my hand this _8th day of _______, 20<u>19</u>.

Parham Noorzad 3535 Lebon Drive, Apt. 4319 San Diego CA 92122

Witnessed by:

IN TESTIMONY WHEREOF, I, Michelle Effros, hereunto set my hand this _____ day of _____, 20____.

Michelle Effros 564 S. Berkeley Ave. San Marino, CA 91108

Witnessed by:

Assignee hereby accepts this Assignment:

Chief Innovation Officer, Executive Director, Office of Technology Transfer

Title

8/20/2619 Date

Name: Frederic Farina

PATENT REEL: 050393 FRAME: 0128

ASSIGNMENT AGREEMENT

WHEREAS, I/We, Parham Noorzad and Michelle Effros (Assignor(s)) have made certain new and useful inventions, improvement and/or designs set forth in an application for Letters Patent of the United States entitled Systems and Methods for Transmitting Data Using Encoder Cooperation in the Presence of State Information, filed on May 18, 2018 and having been assigned Application No. 15/984,161 (Assigned Patent Application);

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- any revival, reissue, reexamination, renewal or extension of an application for Letters Patent forming part of the Assigned Patent Rights;

- any substitute application filed based upon an application for Letters Patent forming part of the Assigned Patent Rights;
- any priority rights associated with an application for Letters Patent forming part of the Assigned Patent Rights, including priority under International Agreements, Treaties and Conventions for the protection of intellectual property in its various forms and all applications in which a right of priority is claimed and any Letters Patent, Design Patent, Utility Model, or equivalent granted therefrom;
- any legal equivalents of priority rights associated with an application for Letters Patent forming part of the Assigned Patent Rights, including priority under International Agreements, Treaties and Conventions for the protection of intellectual property in its various forms and all applications in which a right of priority is claimed and any Letters Patent, Design Patent, Utility Model, or equivalent granted therefrom; and
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- cooperate with Assignee in the protection and prosecution of the Assigned Patent Rights;
- testify with respect to all pertinent facts and documents relating to the Assigned Patent Rights in any interference, post grant review, inter partes review, litigation, or proceeding relating thereto;

- review, execute, verify, acknowledge and deliver to Assignee or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue, or enforce the Assigned Patent Rights; and
- perform such other acts as Assignee lawfully may request to obtain or maintain the Assigned Patent Rights.

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IN TESTIMONY WHEREOF, I, Parham Noorzad, hereunto set my hand this _____ day of _____, 20___.

Parham Noorzad 3535 Lebon Drive, Apt. 4319 San Diego CA 92122

Witnessed by:

IN TESTIMONY WHEREOF, I, Michelle Effros, hereunto set my hand this <u>14</u> day of <u>August</u>, 2019.

Har

Michelle Effros 564 S. Berkeley Ave. San Marino, CA 91108

Witnessed by:

Assignee hereby accepts this Assignment:

Name: Frederic Farina

Title

Chief Innovation Officer, Executive Director, Office of Technology Transfer

8/20/19 Date

-4-

PATENT REEL: 050393 FRAME: 0132

RECORDED: 09/16/2019