

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SAEEDAH EBRAHIMI TAKALLOO	10/03/2017
JOHN MADDEN	10/03/2017
SHAHRIAR MIRABBASI	10/03/2017
MEISAM FARJOLLAHI	10/05/2017
RECEIVING PARTY DATA	
Name:	THE UNIVERSITY OF BRITISH COLUMBIA
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15692298
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DATE SIGNED:	10/27/2017
Total Attachments: 5	
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CONFIRMATION OF ASSIGNMENT

WHEREAS:

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John D.W. MADDEN
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(collectively, the “Assignors”), whose full post office addresses are set out above, are the inventors of certain inventions or improvements (the “Invention(s)”) described and/or claimed in:

- United States Provisional Patent Application No. 62/130595 filed 9 March 2015 entitled: APPARATUS AND METHODS FOR PROVIDING TACTILE STIMULUS INCORPORATING TRI-LAYER ACTUATORS;
- Patent Cooperation Treaty Application No. PCT/CA2016/050258 filed on 9 March 2016 entitled: APPARATUS AND METHODS FOR PROVIDING TACTILE STIMULUS INCORPORATING TRI-LAYER ACTUATORS;
- United States Patent Application No. 15/692298 entitled: APPARATUS AND METHODS FOR PROVIDING TACTILE STIMULUS INCORPORATING TRI-LAYER ACTUATORS filed on 31 August 2017;
- China Patent Application No. 201680014147.3 filed 9 March 2016 entitled: APPARATUS AND METHODS FOR PROVIDING TACTILE STIMULUS INCORPORATING TRI-LAYER ACTUATORS;
- European Patent Office Patent Application No. 16760979.1 filed 9 March 2016 entitled: APPARATUS AND METHODS FOR PROVIDING TACTILE STIMULUS INCORPORATING TRI-LAYER ACTUATORS;
- India Patent Application No. 201717035490 filed 9 March 2016 entitled: APPARATUS AND METHODS FOR PROVIDING TACTILE STIMULUS INCORPORATING TRI-LAYER ACTUATORS;
- Republic of Korea Patent Application No. 10-2017-7028203 filed 9 March 2016 entitled: APPARATUS AND METHODS FOR PROVIDING TACTILE STIMULUS INCORPORATING TRI-LAYER ACTUATORS;

(the “Application(s)”);

The Assignors hereby appoint and instruct Oyen Wiggs Green & Mutala LLP to insert the serial numbers and filing dates of the India and Republic of Korea patent applications, when known, into the spaces above.

Confirmation of Assignment of Inventions to The University of British Columbia

AND WHEREAS, The University of British Columbia, (the "Assignee ") whose full post office address is 103-6190 Agronomy Road, Vancouver, British Columbia, V6T 1Z3, Canada, wishes to own the entire worldwide right, title and interest in and to: the Invention(s), the Application(s), and all patents which may be granted on or as a result thereof in all countries;

THEREFORE, in consideration of ONE (\$1.00) DOLLAR and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Assignors do hereby, both jointly and severally, confirm that they have done previously and, for greater certainty, to the full extent that they have not done so previously, they do hereby sell, assign, transfer and set over to the Assignee their entire worldwide right, title and interest in and to:

- the Invention(s),
- the Application(s),
- all continuations, divisions, renewals of or substitutes for the Application(s);
- counterparts to the Application(s) in all countries and regions;
- the right to file, and claim priority from, the Application(s) in all countries and regions;
- any and all patents which may be granted on or as a result thereof; and
- any reissue or reissues of such patents;

the same to be held and enjoyed by the Assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which such patents respectively may be granted, reissued or extended.

The Assignors hereby covenant that they have and had the full right to convey the entire interest herein assigned and have not executed and will not execute any agreement conveying any rights in the Invention(s) or the Application(s) to any third party, or otherwise in conflict herewith.

The Assignors promise that each time request is made and without undue delay they shall:

- execute and deliver all such papers as may be necessary or desirable to perfect the title to the Invention(s), the Application(s), and the patents in the Assignee, its successors, assigns, nominees or legal representatives,
- communicate to the Assignee, or its nominees, all known facts respecting the Invention(s), the Application(s) and said patents
- testify in any legal proceedings,
- sign all lawful papers,
- execute all disclaimers and divisional, continuing, reissue and foreign applications,
- make all rightful oaths, and
- generally to do everything possible to aid the Assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit, proper patent protection for the Invention in all countries,

all at the expense, however, of the Assignee or its successors, assigns, nominees or legal representatives.

Each of the Assignors hereby irrevocably designates and appoints Assignee and its duly authorized officers and agents, and their successors, as its agents and attorneys-in-fact, to act on

The Assignors hereby authorize and request any official of any country or countries whose duty it is to issue patents on applications to issue to the Assignee, its successors, assigns, nominees or legal representatives all patents for the Inventions in accordance with the terms of this Assignment.

SIGNED, SEALED & DELIVERED)
by **Saeedeh EBRAHIMI TAKALLOO**)
in the presence of:)

Signature of Witness

Print Witness's Name

Print Witness's Address

PhD Student, University of British Columbia
Print Witness's Occupation




Saeedeh EBRAHIMI TAKALLOO

Confirmation of Assignment of Inventions to The University of British Columbia

EXECUTED at Vancouver British Columbia Canada this 3rd day of
 (city) (province/state) (country) (date)
October, 2017.
 (month)

SIGNED, SEALED & DELIVERED
 by **John D.W. MADDEN**
 in the presence of:



 Signature of Witness

William Dunford
 Print Witness's Name

Electrical Engineering
2332 Main Mall

Vancouver B.C. V6T 1Z4 CANADA
 Print Witness's Address

Professor
 Print Witness's Occupation


John D.W. MADDEN

EXECUTED at Vancouver BC Canada this 3 day of
 (city) (province/state) (country) (date)
October, 2017.
 (month)

SIGNED, SEALED & DELIVERED
 By **Shahriar MIRABBASI**
 in the presence of:


 Signature of Witness

Sudip Shekhar
 Print Witness's Name
Department of Electrical and Computer Eng.

University of British Columbia
2332 Main Mall, Vancouver, BC, V6T 1Z4
 Print Witness's Address

Professor
 Print Witness's Occupation


Shahriar MIRABBASI

Confirmation of Assignment of Inventions to The University of British Columbia

EXECUTED at Tehran Tehran Iran this 5 day of
October, 2017.
 (month) (city) (province/state) (country) (date)

SIGNED, SEALED & DELIVERED
 by **Meisam FARAJOLLAHI**
 in the presence of:

S.H.S.

Signature of Witness

Seyed Hasan Seddighi

Print Witness's Name

School of New Technology,
 Iran University of Science and Technologies, Tehran,
 Iran

Print Witness's Address

Assistant Professor

Print Witness's Occupation



Meisam FARAJOLLAHI

STATEMENT OF ACCEPTANCE

The foregoing Assignment is hereby accepted by the Assignee:

The University of British Columbia

By:

Name:

Title:

[Signature]
Brett Sharp Ph.D.
Associate Director
University - Industry Liaison Office