

09/29/2011

RI



103633723

R SHEET

To the Director of the US Patent and Trademark Office: Please record documents or the new address(es) below.		
Name of conveying party(ies): Additional name(s) of conveying party	Vikash Gilja Paul Nuyujukian Cynthia A Chestek John P Cunningham Byron M. Yu /(ies) attached? ☐ Yes ☑ No	Stephen I Ryu Krishna V. Shenoy
2. Name and address of receiving party(ies):		
Name: The Board of Trustees of the Leland Stanford Junior University		
Street address: 1705 El Camino Real		
City: Palo Alto State:	CA Zip: 94306	Country: USA
Additional name(s) and address(es) attached? Yes No		
3. Nature of conveyance/Execution Date(s):		
Assignment Assignment	☐ Joint	Research Agreement
☐ Security Agreement	☐ Gove	rnment Interest Assignment
☐ Merger	☐ Exect	utive Order 9424m Confirmatory License
☐ Change of Name	☐ Other	•
Execution Date(s): AUGUST 31,	2011	
4. Application or patent number(s):		
A. Patent Application No.(s) 12/932070	B. Patent No.(s)	C. Agent Ref No.(s) S10-042/US
☐ This document is being filed together with a new application. Additional numbers attached? ☐ Yes ☑ No		
5. Name and address to whom correspondence concerning document should be mailed:		
Name: Lumen Patent Firm		
Street address: 350 Cambridge Ave.,	Suite 100	
City: Palo Alto State:	CA Zip: 94306	Country: USA
Phone No.: 650-424-0100 Fax No.	o.: 650-424-0141	Email: admin@lumen.com
6. Total number of applications and patents involved: 1		
7. Total fee (37 CFR 1.21(h) & 3.41): \$ 40		
8. Payment information:		
a. Credit Card Last 4 Numbers: 5900	Credit Ca	ard Expiration Date: 10/2012
9. Signature:		
Signature / Ron Jacobs / Reg.No. 50,142		
Printed Name Ron Ja	cobs	
Date 9/21/ 3		Total number of pages including cover sheet, attachments and documents:8

09/27/2011 EHAILU

00000015 12932070

01 FC:8021

40.00 OP

PATENT

REEL: 027092 FRAME: 0179

This Assignment of Invention and Patent (the "Assignment") is made and effective as of August 31, 2011, by and between Vikash Gilja, an individual residing in San Francisco, CA, US, (the "Assignor") and The Board of Trustees of the Leland Stanford Junior University, an entity whose address is 1705 El Camino Real, Palo Alto, CA 94305-1106, USA (the "Assignee").

- 1) For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, Assignor hereby sells, assigns and transfers to Assignee and the successors and assigns of Assignee, its entire right, title and interest in and to (i) the invention or inventions described in US patent application 12/932070 filed 2/17/2011 entitled Brain Machine Interface (the "Application") naming Assignor as an inventor, (ii) any and all patent applications (whether provisional or non-provisional) relating to said invention(s), including all continuations, continuations-in-part, divisions, substitutes, reissues or renewals thereof, in any and all countries, (iii) any and all patents relating to such invention(s) in any and all countries that may be granted on any such application(s), including all reissues or extensions of any such patents and (iv) any and all domestic and foreign rights of priority resulting from the filing of the Application.
- 2) Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into by Assignor which would conflict with this Assignment. Assignor represents and warrants to Assignee that at the time of the execution and delivery of this Assignment, Assignor solely owns (or jointly owns, if the invention(s) were jointly made) the entire right, title and interest in and to said invention(s).
- 3) Assignor agrees that Assignee may apply for foreign patents relating to said invention(s) and irrevocably authorizes Assignee and grants Assignee the right to do so.
- 4) Assignor agrees, on request and without further consideration, but at the expense of Assignee, to sign all lawful papers, make all rightful oaths, and give any required testimony in any legal proceedings relating to said invention(s), and to generally aid Assignee, or its successors or assigns to obtain and enforce patent protection for said invention(s) in any and all countries.
- 5) Assignor authorizes and requests any official whose duty it is to issue patents to issue any patent on said invention(s) to Assignee, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made.
- 6) This Assignment shall bind and inure to the benefit of the successors, assigns and personal representatives of the respective parties.

Assignor has executed this Assignment as of the Effective Date of August 31, 2011.

Assignor: Vikash Gilja

Signature: When Buffic

Lumen Ref.: \$10-042/US PID: 16382 IID: 4099

This Assignment of Invention and Patent (the "Assignment") is made and effective as of August 31, 2011, by and between Paul Nuyujukian, an Individual residing in Stanford, CA, US, (the "Assignor") and The Board of Trustees of the Leland Stanford Junior University, an entity whose address is 1706 El Camino Real, Palo Alto, CA 94306-1106, USA (the "Assignee")."

- 1) For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, Assignor hereby sells, assigns and transfers to Assignee and the successors and assigns of Assignee, its entire right, title and interest in and to (i) the invention or inventions described in US patent application 12/932070 filed 2/17/2011 entitled Brain Machine Interface (the "Application") naming Assignor as an inventor, (ii) any and all patent applications (whether provisional or non-provisional) relating to said invention(s), including all continuations, continuations-in-part, divisions, substitutes, reissues or renewals thereof, in any and all countries, (iii) any and all patents relating to such invention(s) in any and all countries that may be granted on any such application(s), including all reissues or extensions of any such patents and (iv) any and all domestic and foreign rights of priority resulting from the filing of the Application.
- 2) Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into by Assignor which would conflict with this Assignment. Assignor represents and warrants to Assignee that at the time of the execution and delivery of this Assignment, Assignor solely owns (or jointly owns, if the invention(s) were jointly made) the entire right, title and interest in and to said invention(s).
- 3) Assignor agrees that Assignee may apply for foreign patents relating to said invention(s) and irrevocably authorizes Assignee and grants Assignee the right to do so.
- 4) Assignor agrees, on request and without further consideration, but at the expense of Assignee, to sign all lawful papers, make all rightful oaths, and give any required testimony in any legal proceedings relating to said invention(s). and to generally aid Assignee, or its successors or assigns to obtain and enforce patent protection for said invention(s) in any and all countries.
- 5) Assignor authorizes and requests any official whose duty it is to issue patents to issue any patent on said invention(s) to Assignee, as fully and entirely as the same would have been neld by Assignor had this assignment and sale not been made.
- 6) This Assignment shall bind and inure to the benefit of the successors, assigns and personal representatives of the respective parties.

Assignor has executed this Assignment as of the Effective Date of August 31, 2011.

Paul Negroper 09/19/2011

Assignor: Paul Nuyujuklan

Lumen Ref.: \$10-042/US PID: 16382 IID: 4100

REEL: 027092 FRAME: 0181

PATENT

This Assignment of Invention and Patent (the "Assignment") is made and effective as of August 31, 2011, by and between Cynthia A Chestek, an individual residing in Menlo Park, CA, US, (the "Assignor") and Trustees of the Leland Stanford Junior University, an entity whose address is 1705 El Camino Real, Palo Alto, CA 94306-1106, USA (the "Assignee").

- 1) For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, Assignor hereby sells, assigns and transfers to Assignee and the successors and assigns of Assignee, its entire right, title and interest in and to (i) the invention or inventions described in US patent application 12/932070 filed 2/17/2011 entitled Brain Machine Interface (the "Application") naming Assignor as an inventor, (ii) any and all patent applications (whether provisional or non-provisional) relating to said invention(s), including all countries, (iii) any and all patents relating to such invention(s) in any and all countries that may be granted on any such application(s), including all reissues or extensions of any such patents and (iv) any and all domestic and foreign rights of priority resulting from the filing of the Application.
- 2) Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into by Assignor which would conflict with this Assignment. Assignor represents and warrants to Assignee that at the time of the execution and delivery of this Assignment, Assignor solely owns (or jointly owns, if the invention(s) were jointly made) the entire right, title and interest in and to said invention(s).
- 3) Assignor agrees that Assignee may apply for foreign patents relating to said invention(s) and irrevocably authorizes Assignee and grants Assignee the right to do so.
- 4) Assignor agrees, on request and without further consideration, but at the expense of Assignee, to sign all lawful papers, make all rightful oaths, and give any required testimony in any legal proceedings relating to said invention(s), and to generally aid Assignee, or its successors or assigns to obtain and enforce patent protection for said invention(s) in any and all countries.
- 5) Assignor authorizes and requests any official whose duty it is to issue patents to issue any patent on said invention(s) to Assignee, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made.
- 6) This Assignment shall bind and inure to the benefit of the successors, assigns and personal representatives of the respective parties.

Assignor has executed this Assignment as of the Effective Date of August 31, 2011.

Assignor: Cynthia A Chestek

Sicontura

Lumen Ref.: S10-042/US PID: 16382 IID: 4101

1 of 1

9/1/11 11:36 AM

This Assignment of Invention and Patent (the "Assignment") is made and effective as of August 31, 2011, by and between John P Cunningham, an individual residing in Saratoga, CA, US, (the "Assignor") and The Board of Trustees of the Leland Stanford Junior University, an entity whose address is 1705 El Camino Real, Palo Alto, CA 94306-1106, USA (the "Assignee").

- 1) For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, Assignor hereby sells, assigns and transfers to Assignee and the successors and assigns of Assignee, its entire right, title and interest in and to (i) the invention or inventions described in US patent application 12/932070 filed 2/17/2011 entitled Brain Machine Interface (the "Application") naming Assignor as an inventor, (ii) any and all patent applications (whether provisional or non-provisional) relating to said invention(s), including all continuations, continuations-in-part, divisions, substitutes, reissues or renewals thereof, in any and all countries, (iii) any and all patents relating to such invention(s) in any and all countries that may be granted on any such application(s), including all reissues or extensions of any such patents and (iv) any and all domestic and foreign rights of priority resulting from the filling of the Application.
- 2) Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into by Assignor which would conflict with this Assignment. Assignor represents and warrants to Assignee that at the time of the execution and delivery of this Assignment, Assignor solely owns (or jointly owns, if the invention(s) were jointly made) the entire right, title and interest in and to said invention(s).
- 3) Assignor agrees that Assignee may apply for foreign patents relating to said invention(s) and irrevocably authorizes Assignee and grants Assignee the right to do so.
- 4) Assignor agrees, on request and without further consideration, but at the expense of Assignee, to sign all lawful papers, make all rightful oaths, and give any required testimony in any legal proceedings relating to said invention(s), and to generally aid Assignee, or its successors or assigns to obtain and enforce patent protection for said invention(s) in any and all countries.
- 5) Assignor authorizes and requests any official whose duty it is to issue patents to issue any patent on said invention(s) to Assignee, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made.
- 6) This Assignment shall bind and inure to the benefit of the successors, assigns and personal representatives of the respective parties.

Assignor has executed this Assignment as of the Effective Date of August 31, 2011.

Assignor: John P Cunningham

Signature:

Lumen Ref.: \$10-042/US PID: 16382 IID: 4102

This Assignment of Invention and Patent (the "Assignment") is made and effective as of August 31, 2011, by and between Byron M. Yu, an individual residing in San Jose, CA, USA, (the "Assignor") and The Board of Trustees of the Leland Stanford Junior University, an entity whose address is 1705 El Camino Real, Palo Alto, CA 94306-1106, USA (the "Assignee").

- 1) For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, Assignor hereby sells, assigns and transfers to Assignee and the successors and assigns of Assignee, its entire right, title and interest in and to (i) the invention or inventions described in US patent application 12/932070 filed 2/17/2011 entitled Brain Machine Interface (the "Application") naming Assignor as an inventor, (ii) any and all patent applications (whether provisional or non-provisional) relating to said invention(s), including all continuations, continuations-in-part, divisions, substitutes, reissues or renewals thereof, in any and all countries, (iii) any and all patents relating to such invention(s) in any and all countries that may be granted on any such application(s), including all reissues or extensions of any such patents and (iv) any and all domestic and foreign rights of priority resulting from the filing of the Application.
- 2) Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into by Assignor which would conflict with this Assignment. Assignor represents and warrants to Assignee that at the time of the execution and delivery of this Assignment, Assignor solely owns (or jointly owns, if the invention(s) were jointly made) the entire right, title and interest in and to said invention(s).
- 3) Assignor agrees that Assignee may apply for foreign patents relating to said invention(s) and irrevocably authorizes Assignee and grants Assignee the right to do so.
- 4) Assignor agrees, on request and without further consideration, but at the expense of Assignee, to sign all lawful papers, make all rightful oaths, and give any required testimony in any legal proceedings relating to said invention(s), and to generally aid Assignee, or its successors or assigns to obtain and enforce patent protection for said invention(s) in any and all countries.
- 5) Assignor authorizes and requests any official whose duty it is to issue patents to issue any patent on said invention(s) to Assignee, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made.
- 6) This Assignment shall bind and inure to the benefit of the successors, assigns and personal representatives of the respective parties.

Assignor has executed this Assignment as of the Effective Date of August 31, 2011.

Assignor: Byron M. Yu

Signature:

Lumen Ref.: S10-042/US PID: 16382 IID: 2137

PATENT REEL: 027092 FRAME: 0184

This Assignment of Invention and Patent (the "Assignment") is made and effective as of August 31, 2011, by and between Stephen I Ryu, an individual residing in Menlo Park, CA, US, (the "Assignor") and The Board of Trustees of the Leland Stanford Junior University, an entity whose address is 1705 El Camino Real, Palo Alto, CA 94306-1106, USA (the "Assignee").

- 1) For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, Assignor hereby sells, assigns and transfers to Assignee and the successors and assigns of Assignee, its entire right, title and interest in and to (i) the invention or inventions described in US patent application 12/932070 filed 2/17/2011 entitled Brain Machine Interface (the "Application") naming Assignor as an inventor, (ii) any and all patent applications (whether provisional or non-provisional) relating to said invention(s), including all continuations, continuations-in-part, divisions, substitutes, reissues or renewals thereof, in any and all countries, (iii) any and all patents relating to such invention(s) in any and all countries that may be granted on any such application(s), including all reissues or extensions of any such patents and (iv) any and all domestic and foreign rights of priority resulting from the filing of the Application.
- 2) Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into by Assignor which would conflict with this Assignment. Assignor represents and warrants to Assignee that at the time of the execution and delivery of this Assignment, Assignor solely owns (or jointly owns, if the invention(s) were jointly made) the entire right, title and interest in and to said invention(s).
- 3) Assignor agrees that Assignee may apply for foreign patents relating to said invention(s) and irrevocably authorizes Assignee and grants Assignee the right to do so.
- 4) Assignor agrees, on request and without further consideration, but at the expense of Assignee, to sign all lawful papers, make all rightful oaths, and give any required testimony in any legal proceedings relating to said invention(s), and to generally aid Assignee, or its successors or assigns to obtain and enforce patent protection for said invention(s) in any and all countries.
- 5) Assignor authorizes and requests any official whose duty it is to issue patents to issue any patent on said invention(s) to Assignee, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made.
- 6) This Assignment shall bind and inure to the benefit of the successors, assigns and personal representatives of the respective parties.

Assignor has executed this Assignment as of the Effective Date of August 31, 2011.

Assignor: Stephen I Ryu

Signature:

Lumen Ref.: S10-042/US PID: 16382 IID: 4098

This Assignment of Invention and Patent (the "Assignment") is made and effective as of August 31, 2011, by and between Krishna V. Shenoy, an individual residing in Palo Alto, CA, USA, (the "Assignor") and The Board of Trustees of the Leland Stanford Junior University, an entity whose address is 1705 El Camino Real, Palo Alto, CA 94306-1106, USA (the "Assignee").

- 1) For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, Assignor hereby sells, assigns and transfers to Assignee and the successors and assigns of Assignee, its entire right, title and interest in and to (i) the invention or inventions described in US patent application 12/932070 filed 2/17/2011 entitled Brain Machine Interface (the "Application") naming Assignor as an inventor, (ii) any and all patent applications (whether provisional or non-provisional) relating to said invention(s), including all continuations, continuations-in-part, divisions, substitutes, reissues or renewals thereof, in any and all countries, (iii) any and all patents relating to such invention(s) in any and all countries that may be granted on any such application(s), including all reissues or extensions of any such patents and (iv) any and all domestic and foreign rights of priority resulting from the filing of the Application.
- 2) Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into by Assignor which would conflict with this Assignment. Assignor represents and warrants to Assignee that at the time of the execution and delivery of this Assignment, Assignor solely owns (or jointly owns, if the invention(s) were jointly made) the entire right, title and interest in and to said invention(s).
- 3) Assignor agrees that Assignee may apply for foreign patents relating to said invention(s) and irrevocably authorizes Assignee and grants Assignee the right to do so.
- 4) Assignor agrees, on request and without further consideration, but at the expense of Assignee, to sign all lawful papers, make all rightful oaths, and give any required testimony in any legal proceedings relating to said invention(s), and to generally aid Assignee, or its successors or assigns to obtain and enforce patent protection for said invention(s) in any and all countries.
- 5) Assignor authorizes and requests any official whose duty it is to issue patents to issue any patent on said invention(s) to Assignee, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made.
- 6) This Assignment shall bind and inure to the benefit of the successors, assigns and personal representatives of the respective parties.

Assignor has executed this Assignment as of the Effective Date of August 31, 2011.

Assignor: Krishna V. Shenoy

RECORDED: 09/26/2011

Lumen Ref.: S10-042/US PID: 16382 IID: 2138

Page 1 of 1