

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Hans Juergen MATTAUSCH</td> <td>03/13/2012</td> </tr> <tr> <td>Tetsushi KOIDE</td> <td>03/13/2012</td> </tr> <tr> <td>Tania ANSARI</td> <td>03/12/2012</td> </tr> <tr> <td>Wataru IMAFUKU</td> <td>03/12/2012</td> </tr> <tr> <td>Akihiro KAYA</td> <td>03/12/2012</td> </tr> </tbody> </table>		Name	Execution Date	Hans Juergen MATTAUSCH	03/13/2012	Tetsushi KOIDE	03/13/2012	Tania ANSARI	03/12/2012	Wataru IMAFUKU	03/12/2012	Akihiro KAYA	03/12/2012
Name	Execution Date												
Hans Juergen MATTAUSCH	03/13/2012												
Tetsushi KOIDE	03/13/2012												
Tania ANSARI	03/12/2012												
Wataru IMAFUKU	03/12/2012												
Akihiro KAYA	03/12/2012												
RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>HIROSHIMA UNIVERSITY</td> </tr> <tr> <td>Street Address:</td> <td>3-2, Kagamiyama 1-chome</td> </tr> <tr> <td>City:</td> <td>Higashihiroshima-shi, Hiroshima</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>739-8511</td> </tr> </table>		Name:	HIROSHIMA UNIVERSITY	Street Address:	3-2, Kagamiyama 1-chome	City:	Higashihiroshima-shi, Hiroshima	State/Country:	JAPAN	Postal Code:	739-8511		
Name:	HIROSHIMA UNIVERSITY												
Street Address:	3-2, Kagamiyama 1-chome												
City:	Higashihiroshima-shi, Hiroshima												
State/Country:	JAPAN												
Postal Code:	739-8511												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13499112</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13499112								
Property Type	Number												
Application Number:	13499112												
CORRESPONDENCE DATA													
<p>Fax Number: (703)518-5499</p> <p>Phone: 7036841111</p> <p>Email: bjhgroup@ipfirm.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: LOWE HAUPTMAN HAM & BERNER, LLP</p> <p>Address Line 1: 1700 DIAGONAL ROAD</p> <p>Address Line 2: SUITE 300</p> <p>Address Line 4: ALEXANDRIA, VIRGINIA 22314</p>													
ATTORNEY DOCKET NUMBER:	5120-014												
NAME OF SUBMITTER:	Benjamin J. Hauptman												
<p>Total Attachments: 2</p> <p>source=Assignment#page1.tif</p> <p>source=Assignment#page2.tif</p>													

OP \$40.00 13499112

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

- | | |
|---------------------------|-------------------|
| 1) Hans Juergen MATTAUSCH | 4) Wataru IMAFUKU |
| 2) Tetsushi KOIDE | 5) Akihiro KAYA |
| 3) Tania ANSARI | |

who has made a certain new and useful invention, hereby sells, assigns and transfers unto

HIROSHIMA UNIVERSITY having a place of business at 3-2, Kagamiyama 1-chome,

Higashihiroshima-shi, Hiroshima 739-8511 Japan

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

ASSOCIATIVE MEMORY

(a) for which an application for United States Letters Patent was filed on 29 MAR 2012, and identified by United States Patent Application No. 13/499,112; or

(b) for which an application for United States Letters Patent was executed on _____.

and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agrees to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the date indicated aside my signature:

1) Hans J. Mattausch
Name: Hans Juergen MATTAUSCH

13/03/2012
Date:

2) Tetsushi Koide
Name: Tetsushi KOIDE

20/2/03/13
Date:

3) Tania Ansari
Name: Tania ANSARI

12/03/2012
Date:

4) _____
Name: Wataru IMAFUKU

Date:

5) _____
Name: Akihiro KAYA

Date:

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

- | | |
|---------------------------|-------------------|
| 1) Hans Juergen MATTAUSCH | 4) Wataru IMAFUKU |
| 2) Tetsushi KOIDE | 5) Akihiro KAYA |
| 3) Tania ANSARI | |

who has made a certain new and useful invention, hereby sells, assigns and transfers unto

HIROSHIMA UNIVERSITY having a place of business at 3-2, Kagamiyama 1-chome,

Higashihiroshima-shi, Hiroshima 739-8511 Japan

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

ASSOCIATIVE MEMORY

- (a) for which an application for United States Letters Patent was filed on 29 MAR 2012, and identified by United States Patent Application No. 13/499,112; or
- (b) for which an application for United States Letters Patent was executed on _____,

and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agrees to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the date indicated aside my signature:

1) _____
Name: Hans Juergen MATTAUSCH

Date:

2) _____
Name: Tetsushi KOIDE

Date:

3) _____
Name: Tania ANSARI

Date:

4) Wataru Imafuku
Name: Wataru IMAFUKU

2012/03/12
Date:

5) Akihiro Kaya
Name: Akihiro KAYA

2012/03/12
Date: