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U.S. DEPARTMENT OF COMMERCE
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To: Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):
Andrew D. Firlik (12/05/2005), Bradford Evan. Gliner (11/30/2005), W. Douglas Sheffield (11/30/2005), and Leif R. Sloan (11/30/2005)
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name: Northstar Neuroscience, Inc.
Internal Address: _____
Street Address: _____

3. Nature of conveyance/Execution Date(s):
Execution Date(s): in parentheses after inventor name
 Assignment Merger Change of Name
 Security Agreement Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other _____

2401 Fourth Avenue
Suite 300
City: Seattle
State: Washington
Country: United States of America Zip: 98121
Additional name(s) & address(es) attached: Yes No

4. Application or patent number(s): This document is being filed together with a new application.
A. Patent Application No.(s) 11/255,187
B. Patent No.(s) _____
Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:
Name: John M. Wechkin
PERKINS COIE LLP
Internal Address: Attorney. Docket No. : 337348082US
Street Address: P.O. Box 1247
City: Seattle
State: WA Zip: 98111-1247
Phone Number: (206) 359-8000
Fax Number: (206) 359-9000
Email Address: _____

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
 Authorized to be charged by credit card
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment Information
a. Credit Card Last 4 Numbers _____
Expiration Date _____
b. Deposit Account Number _____
Authorized User Name _____

9. Signature:
John M. Wechkin
Signature _____ Date December 9, 2005
John M. Wechkin - 42,216
Name of Person Signing _____ Total number of pages including cover sheet, attachments, and documents: 7

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ASSIGNMENT BY INVENTORS

This Assignment is by Andrew D. Firlik; Bradford Evan Gliner; W. Douglas Sheffield; and Leif R. Sloan (the "Assignors"), residing at 161 Bowery Road, New Canaan, Connecticut 06840; 4368 230th Way SE, Sammamish, Washington 98075; 3033 38th Avenue West, Seatac, Washington 98199; and 720 Queen Anne Avenue N, Unit 208, Seattle, Washington 98109, respectively. The Assignors have invented one or more certain inventions (the "Invention(s)") described in a Patent application for Letters Patent of the United States entitled SYSTEMS AND METHODS FOR PATIENT INTERACTIVE NEURAL STIMULATION AND/OR CHEMICAL SUBSTANCE DELIVERY (the "Application"), already filed on October 19, 2005 as U.S. Application No. 11/255,187.

Northstar Neuroscience, Inc., a Corporation of Washington having its principal place of business at 2401 Fourth Avenue, Suite 300, Seattle, Washington 98121 ("Assignee"), desires to acquire the entire right, title and interest in and to the Invention(s) and the Application, and in and to any patents (collectively, "Patents") that may be granted for the Invention(s) in the United States or in any foreign countries.

For valuable consideration, the receipt and sufficiency of which Assignors acknowledge, Assignors hereby sell, assign, and transfer to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to: the Invention(s), the Application, and any Patents; any divisions, continuations, and continuations-in-part of the Application and any other application claiming priority rights from the Application; any reissues, reexaminations, or extensions of any and all Patents; the right to file foreign applications directly in the name of Assignee; and the right to claim priority rights deriving from the Application (collectively, the "Rights"). Assignors warrant that Assignors own the Rights, and that the Rights are unencumbered. Assignors also agree to not sign any writing or do any act conflicting with this assignment, and, without further compensation, sign all documents and do such additional acts as Assignee deems necessary or desirable to: perfect Assignee's enjoyment of the Rights; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or perfect or defend title to the Rights. Assignors request the Commissioner of Patents to

issue any Patent of the United States that may be issued on the Invention(s) to Assignee.

This Assignment may be executed in counterparts.

Andrew D. Firlik

Andrew D. Firlik

Date: December 5, 2005

United States of America)
State of Connecticut) ss.:
County of Fairfield)

On this 5th day of December, 2005, before me personally came Andrew D. Firlik, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Carol P. Woodman

Notary Public

Carol P. Woodman
Notary Public

My Commission Expires Feb. 28, 2006

Bradford Evan Gliner
Bradford Evan Gliner

Date: 11/30/05

United States of America)
State of Washington) ss.:
County of King)

On this 30th day of November, 2005, before me personally came Bradford Evan Gliner, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Charlene M. Anderson
Notary Public



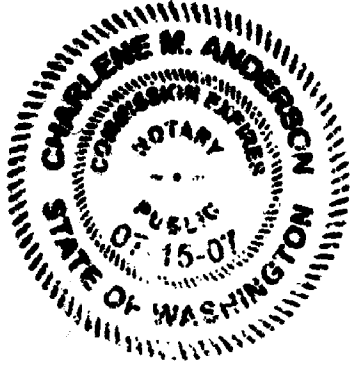
W. Doyle Sheffield
W. Douglas Sheffield

Date: 11/30/05

United States of America)
State of Washington) ss.:
County of King)

On this 30th day of November, 2005, before me personally came W. Douglas Sheffield, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Charlene M. Anderson
Notary Public



Leif R. Sloan
Leif R. Sloan

Date: 11/30/05

United States of America)
State of Washington) ss.:
County of King)

On this 30th day of November, 2005, before me personally came Leif R. Sloan, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Charlene M. Anderson
Notary Public

