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To the 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)/Execution Date(s):Hisamoto Moriguchi
Jeffrey L. Sunshine
Jeffrey L. Duerk

Execution Date(s) 8/29/06 and 8/31/06

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance:**

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: Case Western Reserve University

Internal Address: _____

Street Address: 10900 Euclid Avenue

City: Cleveland

State: Ohio

Country: USA Zip: 44106-4971

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)

11/106,870

B. Patent No.(s)

09/19/2006 DBYRNE 00000031 11106870

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40.00 DP

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**

Name: John T. Kalnay

Internal Address: McDonald Hopkins Co., LPA

Street Address: 600 Superior Avenue, E.,

City: Cleveland

State: OH Zip: 44114

Phone Number: (216) 348-5844

Fax Number: (216) 348-5474

Email Address: jkalnay@mcdonaldhopkins.com

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 Informationa. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number _____

Authorized User Name _____

9. Signature:

Signature

9/14/06
Date

John T. Kalnay

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

5

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450**PATENT**
REEL: 018312 FRAME: 0038

ASSIGNMENT

For One Dollar (\$1.00) and other good and valuable consideration received of the hereinafter named assignee, receipt of which is hereby acknowledged, we, the undersigned, **Hisamoto Moriguchi** of 10900 Euclid Avenue, Cleveland, OH 44106, and **Jeffrey L. Sunshine** of 10900 Euclid Avenue, Cleveland, OH 44106, and **Jeffrey L. Duerk** of 10900 Euclid Avenue, Cleveland, OH 44106, hereby assign all right, title and interest to **Case Western Reserve University**, 10900 Euclid Avenue, Cleveland, Ohio 44106-4971, its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries, in and to the inventions in

BUNCHED PHASE ENCODING (BPE)

set forth in the utility application filed on April 15, 2005, for United States Letters Patent, said application for United States Letters Patent, any and all other applications for Letters Patent on said inventions in countries foreign to the United States, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patents and reissues and extension of Letters Patent granted for said inventions or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said applications and said Letters Patent; said assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said assignee or otherwise as said assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents of the United States of America and the empowered officials of all other governments being hereby authorized to issue or transfer all said Letters Patent to said assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right heretofore given, and that the undersigned will do all acts reasonably serving to assure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said assignee as fully and

entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, and lawful affidavits in form and in substance which may be requested by said assignee, to furnish said assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said inventions, and to testify in any proceedings relating to said inventions, patent applications and Letters Patent.

(1)

Date: Aug 31, 2006

Hisamoto Moriguchi

Hisamoto Moriguchi

State of Ohio)

)

SS:

County of USA)

On this _____ day of _____, 2005, personally appeared before me, Morio Shimada, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and the purposes therein mentioned.

Date: Aug 31, 2006

嶋田 守 男

Notary Public

(2)

Date: Aug 29, 2006

Jeffrey L. Sunshine
Jeffrey L. Sunshine

State of Ohio)

) SS:

County of Cuyahoga)

On this 29th day of August, 2006, personally appeared before me, Jeffrey L. Duerk, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and the purposes therein mentioned.

Date: August 29, 2006

Ellen J. Holly

Notary Public

ELLEN J. HOLLY
NOTARY PUBLIC, STATE OF OHIO
Recorded in Cuyahoga County
Comm. Expires Dec. 14, 2007

(3)

Date: Aug 29, 2006

Jeffrey L. Duerk
Jeffrey L. Duerk

State of Ohio)

) SS:

County of Cuyahoga)

On this 29th day of August, 2006, personally appeared before me, Jeffrey L. Duerk, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and the purposes therein mentioned.

Date: August 29, 2006

Ellen J. Holly
Notary Public

ELLEN J. HOLLY
NOTARY PUBLIC, STATE OF OHIO
Recorded in Cuyahoga County
My Comm Expires Dec. 14, 2007