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U.S. DEPARTMENT OF COMMERCE
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174

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103468170

To the Director of the U.S. Patent and Trademark Office

or the new address(es) below.

1. Name of conveying party(ies):

Xiaocang LIN November 30, 2007
Robert O. ABERG November 30, 2007

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: The MathWorks, Inc.

Internal Address:

Street Address:

3 Apple Hill Drive

City: Natick

State: Massachusetts

Country: United States of America Zip: 01760

Additional name(s) & address(es) attached? Yes No

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

4. Application or patent number(s):

A. Patent Application No.(s)

This application

This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Kevin J. Canning
LAHIVE & COCKFIELD, LLP

Internal Address: Atty. Dkt.: MWS-283
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State: MA Zip: 02109-2127

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Fax Number: (617) 742-4214

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 12-0080
Authorized User Name Kevin J. Canning

9. Signature:

Signature

December 4, 2007

Date

James M. McKenzie, Esq. - 51,146

Name of Person Signing

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

4

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Express Mail Label No. EM 066 423 574 US Dated: December 4, 2007

PATENT
REEL: 020247 FRAME: 0723

ASSIGNMENT BY INVENTORS

WE, Xiaocang LIN and Robert O. ABERG, of Wayland, Massachusetts and South Grafton, Massachusetts, respectively, in consideration of One Dollar and other valuable consideration paid to us by

The MathWorks, Inc.

a Corporation of Delaware, having its principal place of business at 3 Apple Hill Drive, Natick, Massachusetts 01760, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

The MathWorks, Inc.

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

OPTIMIZATION TRACING

described in an application

Executed by us of even date herewith and about to be filed

or

Application No. , filed on

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said Corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said Corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

And we do further hereby grant the attorneys/agents of Lahive & Cockfield, LLP, the power to insert on this Assignment the filing date and/or application number of said application.

[Handwritten Signature]

Xiaocang Lin

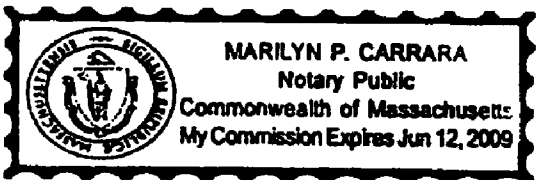
Date: 11/30/07

United States of America
State of Massachusetts ss.:
County of Middlesex

On this 30th day of November, 2007 before me, the
the undersigned notary public, personally appeared Xiaocang Lin
(name of document signer), proved to me through satisfactory evidence of identification,
which was MA driver's license, to be the person whose name
is signed on the preceding or attached document in my presence.

Marilyn P. Carrara (official signature and seal of notary)

My commission expires June 12, 2009



Robert O. Aberg
Robert O. Aberg

Date: 30 November 2007

United States of America)
State of Massachusetts) ss.:
County of Middlesex)

On this 30th day of November, 2007 before me, the
the undersigned notary public, personally appeared Robert O. Aberg
(name of document signer), proved to me through satisfactory evidence of identification,
which was MA driver's license, to be the person whose name
is signed on the preceding or attached document in my presence.

Marilyn P. Carrara (official signature and seal of notary)

My commission expires June 12, 2009

