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103447442

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

documents or the new address(es) below.

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Rakesh KUMAR (12/15/2004) and Jared CARLSON (12/15/2004)

Additional name(s) of conveying party(ies) 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

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

4. Application or patent number(s):

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

This 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-144CN
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City: Boston
State: MA Zip: 02109-2127
Phone Number: (617) 994-0732
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:

Kevin J. Canning
Signature

September 12, 2007

Date

Kevin J. Canning - 35,470
Name of Person Signing

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

4

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Express Mail Label No. EM 066421851 US Dated: September 12, 2007

PATENT
REEL: 019877 FRAME: 0169

ASSIGNMENT BY INVENTORS

WE, Rakesh KUMAR and Jared CARLSON, of Framingham, Massachusetts and Arlington, 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

IMPROVED SEARCH DIRECTIONS IN PATTERN SEARCH VIA ROTATION

described in an application

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

or

☐ Application No. Not Yet Assigned, filed on Concurrently Herewith

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.

Rakesh Kumar

Rakesh Kumar

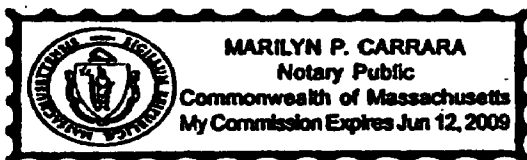
Date: 12/15/2004

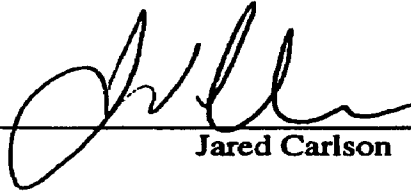
United States of America)
Commonwealth of Massachusetts) ss.:
County of Middlesex)

On this 15th day of December, 2004 before me, the
the undersigned notary public, personally appeared Rakesh Kumar
(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




Jared Carlson

Date: 12/15/2004

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

On this 15th day of December, 2004 before me, the
the undersigned notary public, personally appeared Jared Carlson
(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

