

Form PTO-1595 (Rev. 03/05)  
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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):**

Rakesh KUMAR

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

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s): February 2, 2006

- ☒ 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):**

A. Patent Application No.(s)

11/301155

☐ 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-242

Street Address: 28 State Street

City: Boston

State: MA Zip: 02109

Phone Number: (617) 227-7400

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)

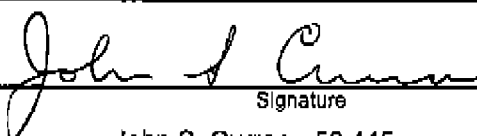
**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 12-0080

Authorized User Name Kevin J. Canning

**9. Signature:**

  
Signature

February 8, 2006

Date

John S. Curran - 50,445

Name of Person Signing

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

3

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted by facsimile to the Patent and Trademark Office, facsimile no. (571) 273-0140 at MS Assignment Recordation Services, Director of the US Patent and Trademark Office, P. O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: February 8, 2006

Signature:  (John S. Curran)

CH \$40.00 120080 11301155

**ASSIGNMENT BY INVENTOR**

I, Rakesh KUMAR, of Framingham, Massachusetts, in consideration of One Dollar and other valuable consideration paid to me 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

**SYSTEM AND METHOD FOR PERFORMING NON-LINEAR CONSTRAINED  
OPTIMIZATION WITH A GENETIC ALGORITHM**

described in an application

☐ Executed by me of even date herewith and about to be filed

or

☒ Application No. 11/301155, filed on December 12, 2005

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 I agree, for myself and my 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 I 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 I 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

Date: 02/02/2006

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

On this 2<sup>nd</sup> day of February, 2006 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