

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5203745

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
XIANCHAO LONG	03/02/2015
JUSTYNA ZANDER	03/01/2015
DAVID KOH	02/27/2015
GAUTAM K. VALLABHA	03/02/2015
PIETER J. MOSTERMAN	02/27/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE MATHWORKS, INC.
<b>Street Address:</b>	3 APPLE HILL DRIVE
<b>City:</b>	NATICK
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01760-2098
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16169177
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Email:</b>	hhodul@harrityllp.com
<b>Correspondent Name:</b>	HARRITY & HARRITY LLP
<b>Address Line 1:</b>	11350 RANDOM HILLS ROAD
<b>Address Line 2:</b>	SUITE 600
<b>Address Line 4:</b>	FAIRFAX, VIRGINIA 22030
<b>ATTORNEY DOCKET NUMBER:</b>	0069-0337C1
<b>NAME OF SUBMITTER:</b>	PAUL M. GURZO
<b>SIGNATURE:</b>	/Paul M. Gurzo, Reg. No. 67,478/
<b>DATE SIGNED:</b>	10/24/2018
<b>Total Attachments: 7</b>	
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**ASSIGNMENT  
(Joint)  
Worldwide Rights**

THIS ASSIGNMENT, by Xianchao LONG, Justyna ZANDER, David KOH, Gautam K. VALLABHA, and Pieter J. MOSTERMAN residing at 3 Homer Street, Apartment 3, Worcester, MA 01602 US; 72 Nicholas Road, Apartment 63, Framingham, MA 01701 US; 9 West Broadway, Unit 401, Boston, MA 02127 US; 226 Maple Street, Framingham, MA 01702 US; and 72 Nicholas Road, Apartment 63, Framingham, MA 01701 US (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in EXCHANGING INFORMATION AMONG SYSTEM MIDDLEWARE AND MODELS set forth in an application for Letters Patent of the United States,

- (1) ☐ which is a provisional application  
(a) ☐ filed herewith; or  
(b) ☐ bearing Application No. \_\_\_\_\_, and filed on \_\_\_\_\_; or
- (2) ☒ which is a non-provisional application  
(a) ☒ bearing Application No. 14/635,719, and filed on March 2, 2015; or  
(b) ☐ filed herewith; and

We hereby authorize Applicants' representative to fill in the preceding information relating to the filing date and/or serial number, as appropriate.

WHEREAS, The MathWorks, Inc., a corporation of the state of Delaware, having its principal place of business at 3 Apple Hill Drive, Natick, Massachusetts 01760-2098 (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application or from which said application claims priority, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, be it known that for good and valuable consideration, the receipt of which is hereby acknowledged, the Assignor has sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, any previously or subsequently filed provisional applications, and in and to any and all applications claiming priority to said applications, including divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

IN TESTIMONY WHEREOF, I have hereunto set my hand.

IN WITNESS WHEREOF, I hereto set my hand.

Xianchao LONG  
3 Homer Street  
Apartment 3  
Worcester, MA 01602 US

Signature: Xianchao Long

Date: 3/2/2015

Witness Signature: Lening Li

Date: 3/2/2015

Witness Name: Lening Li

Witness Signature: Ruixiang Du

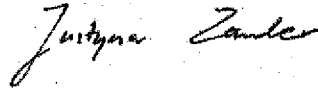
Date: 03/02/2015

Witness Name: Ruixiang Du

IN TESTIMONY WHEREOF, I have hereunto set my hand.

IN WITNESS WHEREOF, I hereto set my hand.

Justyna ZANDER  
72 Nicholas Road  
Apartment 63  
Framingham, MA 01701 US

Signature:  \_\_\_\_\_

Date: March 1, 2015

Witness Signature:  \_\_\_\_\_

Date: March 1, 2015

Witness Name: Ewa Zander

Witness Signature:  \_\_\_\_\_

Date: March 1, 2015

Witness Name: Sylwia Fil

IN TESTIMONY WHEREOF, I have hereunto set my hand.

IN WITNESS WHEREOF, I hereto set my hand.

David KOH  
9 West Broadway  
Unit 401  
Boston, MA 02127 US

Signature: *David Koh*

Date: 2/27/2015

State of Massachusetts )  
County of Middlesex ) ss:

On this 27<sup>th</sup> day of February, 2015, before me, Marilyn P. Carrara, Notary Public, personally appeared David Koh personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity, and that by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



[Notary's Seal Here]

WITNESS my hand and official seal.

*Marilyn P. Carrara*  
Signature of Notary Public

My Commission Expires: May 27, 2016

IN TESTIMONY WHEREOF, I have hereunto set my hand.

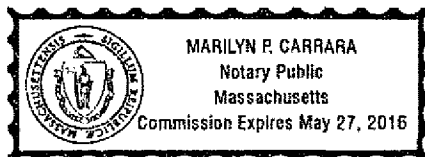
IN WITNESS WHEREOF, I hereto set my hand.

Gautam K. VALLABHA  
226 Maple Street  
Framingham, MA 01702 US

Signature: Gautam Vallabha  
Date: 3/2/2015

State of Massachusetts )  
County of Middlesex ) ss:

On this 2<sup>nd</sup> day of March, 2015, before me, Marilyn P. Carrara, Notary Public, personally appeared Gautam K. Vallabha personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity, and that by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



[Notary's Seal Here]

WITNESS my hand and official seal.

Marilyn P. Carrara  
Signature of Notary Public  
My Commission Expires: May 27, 2016



IN TESTIMONY WHEREOF, I have hereunto set my hand.

IN WITNESS WHEREOF, I hereto set my hand.

Pieter J. MOSTERMAN  
72 Nicholas Road  
Apartment 63  
Framingham, MA 01701 US

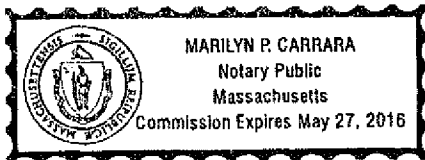
Signature: [Signature]

Date: Feb 27, 2015

State of Massachusetts )

County of Middlesex ) ss: Mosterman

On this 27<sup>th</sup> day of February, 2015, before me, Marilyn P. Carrara, Notary Public, personally appeared Pieter J. personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity, and that by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



[Notary's Seal Here]

WITNESS my hand and official seal.

Signature of Notary Public

My Commission Expires: May 27, 2016