PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Joel BERG	03/24/2012
Krishna TAMMINANA	03/23/2012
Jagadish GATTU	03/23/2012

RECEIVING PARTY DATA

Name:	The MathWorks, Inc.
Street Address:	3 Apple Hill Drive
City:	Natick
State/Country:	MASSACHUSETTS
Postal Code:	01760-2098

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13430056

CORRESPONDENCE DATA

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Email: gruszkowska@harrityllp.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: HARRITY & HARRITY, LLP Address Line 1: 11350 RANDOM HILLS RD.

Address Line 2: SUITE 600

Address Line 4: FAIRFAX, VIRGINIA 22030

ATTORNEY DOCKET NUMBER:	0069-0142
NAME OF SUBMITTER:	Richard A. Brisbin

Total Attachments: 5

PATENT REEL: 027928 FRAME: 0114 DP \$40,00 13430(

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> PATENT REEL: 027928 FRAME: 0115

ASSIGNMENT (Joint) Worldwide Rights

THIS ASSIGNMENT, by <u>Joel BERG</u> and <u>Krishna TAMMINANA</u> and <u>Jagadish GATTU</u> residing at 191 Wilder Road, Bolton, MA 01740 and 503 Windsor Ridge Drive, Westborough, MA 01581 and 1005 Windsor Ridge Drive, Westborough, MA 01581 (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in <u>MEASUREMENT</u> POINTS IN MODELING AND SIMULATION 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. 13/430,056, and filed on March 26, 2012; or
(2)	which is a non-provisional application (a) having an oath or declaration executed on even date herewith prior to filing of application; (b) bearing Application No, and filed on; or (c) 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, <u>The MathWorks, Inc.</u>, a corporation of the state of <u>Delaware</u>, having its principal place of business at <u>3 Apple Hill Drive</u>, <u>Natick</u>, <u>Massachusetts 01760-2098</u> (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, 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:

PATENT REEL: 027928 FRAME: 0116 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. Joel BERG 191 Wilder Road Bolton, MA 01740 Date: 24 MAR 2013 State of Massachusetts) ss: County of Wares On this 24 day of MCCh, 2012, before me, KGhC Quin Notary Public, personally appeared Joel BERG personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument. WITNESS my hand and official seal. KATIE SOPHIA QUINN lotary Public. Commonwealth of Massachusetts My Commission Expires July 27 2018 Signature of Notary Public
My Commission Expires: 544 27 2018 [Notary's Seal Here]

IN TESTIMONY WHEREOF, I have hereunto set my hand.

IN WITNESS WHEREOF, I hereto set my hand.

Krishna TAMMINANA 503 Windsor Ridge Drive Westborough, MA 01581

State of Massachusetts

On this 3 day of Narch, 2012, before me, Mar. (4), Notary Public, personally appeared Krishna TAMMINANA personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

MARILYN P. CARRARA **Notary Public** Massachusetts Commission Expires May 27, 2016

[Notary's Seal Here]

WITNESS my hand and official seal.

Signature of Notary Public
My Commission Expires: May 27, 2016

May 27, 2016

IN TESTIMONY WHEREOF, I have hereunto set my hand.

IN WITNESS WHEREOF, I hereto set my hand.

Jagadish GATTU 1005 Windsor Ridge Drive Westborough, MA 01581 Signature: G. Son

State of Massachusetts

County of Midle (4) ss:

On this 23 day of 100 day of 2012, before me, 2012, before me, 2012, Notary Public, personally appeared Jagadish GATTU personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.



[Notary's Seal Here]

WITNESS my hand and official seal.

Signature of Notary Public

My Commission Expires: