

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT										
NATURE OF CONVEYANCE:	Corrective Assignment to correct the Name of Assignee previously recorded on Reel 011699 Frame 0072. Assignor(s) hereby confirms the Assignment of Assignor's interest.										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Ning Xi</td><td>05/27/2009</td></tr><tr><td>Weihua Sheng</td><td>05/12/2009</td></tr></tbody></table>		Name	Execution Date	Ning Xi	05/27/2009	Weihua Sheng	05/12/2009				
Name	Execution Date										
Ning Xi	05/27/2009										
Weihua Sheng	05/12/2009										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>Board of Trustees of Michigan State University</td></tr><tr><td>Street Address:</td><td>246 Administration Building</td></tr><tr><td>City:</td><td>East Lansing</td></tr><tr><td>State/Country:</td><td>MICHIGAN</td></tr><tr><td>Postal Code:</td><td>48224</td></tr></table>		Name:	Board of Trustees of Michigan State University	Street Address:	246 Administration Building	City:	East Lansing	State/Country:	MICHIGAN	Postal Code:	48224
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PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Patent Number:</td><td>6597967</td></tr></tbody></table>		Property Type	Number	Patent Number:	6597967						
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Patent Number:	6597967										
CORRESPONDENCE DATA											
Fax Number: (248)641-0270 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Email: ablendea@hdp.com Correspondent Name: Harness, Dickey & Pierce, P.L.C. Address Line 1: P.O. Box 828 Address Line 2: Monte L. Falcoff, Esq. Address Line 4: Bloomfield Hills, MICHIGAN 48303											
ATTORNEY DOCKET NUMBER:	6550-000058										
NAME OF SUBMITTER:	Fernando Alberdi										
Total Attachments: 5 source=Recordation_Cover_Sheet_and_Original_Assignment#page1.tif											

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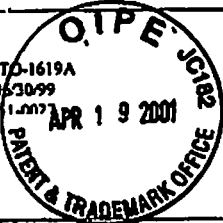
PATENT  
REEL: 022732 FRAME: 0618

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4/19/01

04-24-2001

FORM PTO-1619A  
Expires 06/30/99  
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U.S. Department of Commerce  
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PATENT

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- ☒ Assignment ☐ Security Agreement  
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- ☐ Departmental File ☐ Secret File

Conveying Party(ies)

☐ Mark if additional names of conveying parties attached

Name (line 1) Ning Xi

Execution Date  
Month Day Year  
04 06 2001

Name (line 2)

Second Party

Name (line 1) Weihua Sheng

Execution Date  
Month Day Year  
04 06 2001

Name (line 2)

Receiving Party

☐ Mark if additional names of receiving parties attached

Name (line 1) Board of Trustees Operating Michigan State University

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) East Lansing

Michigan

48824

City

State/Country

Zip Code

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Domestic Representative Name and Address

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Name

Address (line 1)

Address (line 2)

Address (line 3)

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04/20/2001 EABUBAK1 00030007 09795573

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PATENT  
REEL: 022732 FRAME: 0620

Correspondent Name and Address

Area Code and Telephone Number

248-641-1600

Name Timothy D. MacIntyre

Address (line 1) Harness, Dickey & Pierce, P.L.C.

Address (line 2) P.O. Box 828

Address (line 3) Bloomfield Hills, MI 48303

Address (line 4)

Pages

Enter the total number of pages of the attached conveyance document including any attachments

# 1

Application Number(s) or Patent Number(s)

☐ Mark if additional numbers attached.

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number as not been assigned.

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PCT

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Number of Properties

Enter the total number of properties involved.

# 1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41):

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Method of Payment:

Enclosed ☒

Deposit Account ☐

Deposit Account

Enter for payment by deposit account or if additional fees can be charged to the account.)

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# 08-0750

Authorization to charge additional fees:

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No ☐

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Timothy D. MacIntyre

Name of Person Signing

Signature

Date

## ASSIGNMENT BY JOINT INVENTORS

WHEREAS, the undersigned, hereinafter referred to as Assignors, have invented certain new and useful improvements in **A SYSTEM AND METHOD FOR PLANNING A TOOL PATH ALONG A CONTOURED SURFACE** for which Assignors have made United States application for patent under Serial No. 09/795,573 filed February 28, 2001, and

WHEREAS, Board of Trustees Operating Michigan State University, having a place of business at East Lansing, Michigan 48824, hereinafter referred to as Assignee(s), is (are) desirous of acquiring an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt whereof is hereby acknowledged, Assignors by these presents do sell, assign and transfer unto Assignee, its successors in interest, the full and exclusive right in the United States of America and all foreign countries, including the right to claim priority under the laws of the United States and the Paris Convention, to the said invention as described in the aforesaid application, said application for patent and all Letters Patent therefor to be held and enjoyed by Assignee to the full end of the term for which said Letters Patent are granted and any extensions thereof, as fully and entirely as the same would have been held by Assignors had this assignment and sale not been made; and Assignors hereby covenant and agree to execute all instruments or documents required or requested for the making and prosecution of applications for patent in the United States and in all foreign countries, for litigation regarding, or for the purpose of protecting title to the said invention, the United States application for patent, or Letters Patent therefor for the benefit of Assignee without further or other compensation than that above set forth; and Assignors hereby request the Commissioner of Patents and Trademarks to issue said Letters Patent to Assignee.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Ning Xi 4/6/01  
Ning Xi Date  
(First joint inventor)

Wei-hua Sheng 4/6/01  
Wei-hua Sheng Date  
(Second joint inventor)

Witness 4/6/01  
Witness Date

Witness 4/6/01  
Witness Date

**AMENDED  
ASSIGNMENT BY JOINT INVENTORS**

WHEREAS, the undersigned, hereinafter referred to as Assignors, have invented certain new and useful improvements in **A SYSTEM AND METHOD FOR PLANNING A TOOL PATH ALONG A CONTOURED SURFACE** for which Assignors have made United States application for patent under Serial No. 09/795,573 filed February 28, 2001, and

By Assignor N. Xi

Initials: *NX*  
date: *5/27/01*

Board of Trustees of Michigan State University

WHEREAS, ~~Board of Trustees of Michigan State University~~, having a place of business at East Lansing, Michigan 48824, hereinafter referred to as Assignee(s), is (are) desirous of acquiring an interest therein:

By Assignor W. Sheng

Initials: *WS*  
date: \_\_\_\_\_

NOW, THEREFORE, for good and valuable consideration, the receipt whereof is hereby acknowledged, Assignors by these presents do sell, assign and transfer unto Assignee, its successors in interest, the full and exclusive right in the United States of America and all foreign countries, including the right to claim priority under the laws of the United States and the Paris Convention, to the said invention as described in the aforesaid application, said application for patent and all Letters Patent therefor to be held and enjoyed by Assignee to the full end of the term for which said Letters Patent are granted and any extensions thereof, as fully and entirely as the same would have been held by Assignors had this assignment and sale not been made; and Assignors hereby covenant and agree to execute all instruments or documents required or requested for the making and prosecution of applications for patent in the United States and in all foreign countries, for litigation regarding, or for the purpose of protecting title to the said invention, the United States application for patent, or Letters Patent therefor for the benefit of Assignee without further or other compensation than that above set forth; and Assignors hereby request the Commissioner of Patents and Trademarks to issue said Letters Patent to Assignee.

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*N. Xi* 4/6/01  
Ning Xi Date  
(First Joint Inventor)

*Wei-hua Sheng* 4/6/01  
Wei-hua Sheng Date  
(Second Joint Inventor)

*David Horn* 4/6/01  
Witness Date

*David Horn* 4/6/01  
Witness Date

**AMENDED  
ASSIGNMENT BY JOINT INVENTORS**

WHEREAS, the undersigned, hereinafter referred to as Assignors, have invented certain new and useful improvements in **A SYSTEM AND METHOD FOR PLANNING A TOOL PATH ALONG A CONTOURED SURFACE** for which Assignors have made United States application for patent under Serial No. 09/795,573 filed February 28, 2001, and

By Assignor N. Xi

Board of Trustees of Michigan State University

Initials: \_\_\_\_\_

WHEREAS, ~~Board of Trustees of Michigan State University~~, having a place of business at East Lansing, Michigan 48824, hereinafter referred to as Assignee(s), is (are) desirous of acquiring an interest therein:

date: \_\_\_\_\_

By Assignor W. Sheng

Initials: W.S.

date: 5/12/01

NOW, THEREFORE, for good and valuable consideration, the receipt whereof is hereby acknowledged, Assignors by these presents do sell, assign and transfer unto Assignee, its successors in interest, the full and exclusive right in the United States of America and all foreign countries, including the right to claim priority under the laws of the United States and the Paris Convention, to the said invention as described in the aforesaid application, said application for patent and all Letters Patent therefor to be held and enjoyed by Assignee to the full end of the term for which said Letters Patent are granted and any extensions thereof, as fully and entirely as the same would have been held by Assignors had this assignment and sale not been made; and Assignors hereby covenant and agree to execute all instruments or documents required or requested for the making and prosecution of applications for patent in the United States and in all foreign countries, for litigation regarding, or for the purpose of protecting title to the said invention, the United States application for patent, or Letters Patent therefor for the benefit of Assignee without further or other compensation than that above set forth; and Assignors hereby request the Commissioner of Patents and Trademarks to issue said Letters Patent to Assignee.

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Ning Xi 4/6/01  
Date  
(First joint inventor)

Wei-hua Sheng 4/6/01  
Date  
(Second joint inventor)

Robert Horn 4/6/01  
Date  
Witness

Robert Horn 4/6/01  
Date  
Witness