

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>H. Keith Nishihara</td><td>08/12/2008</td></tr><tr><td>Shi-Ping Hsu</td><td>08/11/2008</td></tr><tr><td>Adrian Kaehler</td><td>08/11/2008</td></tr><tr><td>Bran Ferren</td><td>08/20/2008</td></tr><tr><td>Lars Jangaard</td><td>08/11/2008</td></tr></tbody></table>	Name	Execution Date	H. Keith Nishihara	08/12/2008	Shi-Ping Hsu	08/11/2008	Adrian Kaehler	08/11/2008	Bran Ferren	08/20/2008	Lars Jangaard	08/11/2008	
Name	Execution Date												
H. Keith Nishihara	08/12/2008												
Shi-Ping Hsu	08/11/2008												
Adrian Kaehler	08/11/2008												
Bran Ferren	08/20/2008												
Lars Jangaard	08/11/2008												
RECEIVING PARTY DATA													
Name:	Northrop Grumman Space and Mission Systems Corporation												
Street Address:	1840 Century Park East												
City:	Los Angeles												
State/Country:	CALIFORNIA												
Postal Code:	90067												
PROPERTY NUMBERS Total: 1													
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12196767</td></tr></tbody></table>	Property Type	Number	Application Number:	12196767									
Property Type	Number												
Application Number:	12196767												
CORRESPONDENCE DATA													
Fax Number: (216)621-4072 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone: 2166212234													
Email: lpringle@tarolli.com													
Correspondent Name: Christopher P. Harris													
Address Line 1: Tarolli, Sundheim, Covell & Tummino LLP													
Address Line 2: 1300 East Ninth Street, Suite 1700													
Address Line 4: Cleveland, OHIO 44114													
ATTORNEY DOCKET NUMBER:	NG(MS)018025 US PRI												
NAME OF SUBMITTER:	Christopher P. Harris												

OP \$40.00 12196767

500628468

PATENT
REEL: 021432 FRAME: 0156

Total Attachments: 4

source=MS018025Assignment#page1.tif

source=MS018025Assignment#page2.tif

source=MS018025Assignment#page3.tif

source=MS018025Assignment#page4.tif

PATENT

REEL: 021432 FRAME: 0157

ASSIGNMENT

WHEREAS, I, H. Keith Nishihara, hereinafter referred to as Assignor, together with Shi-Ping Hsu, Adrian C. Kaehler, Bran Ferren and Lars Jangaard, have jointly invented certain new and useful improvements in Compound Gesture Recognition, described in an application for United States Letters Patent, executed by me on the date as stated below;

WHEREAS, Northrop Grumman Space and Mission Systems Corporation, an Ohio corporation, having its principal place of business at 1840 Century Park East, Los Angeles, California 90067, hereinafter referred to as Assignee, is desirous of acquiring the entire right, title and interest in, to and under said improvements and said application:

NOW, THEREFORE, in consideration of Assignor's obligations to Northrop Grumman Space and Mission Systems Corporation, and for other good and valuable consideration, the receipt and sufficiency is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, Assignor's entire right, title and interest in, to and under said improvements, and said application and all divisions, renewals, continuations, and continuations-in-part thereof, and all United States Letters patent which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, including the full right to claim for any such application the priority benefits of the International Convention for the Protection of Industrial Property and other priority-conferring treaties, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, divisions, continuations, continuations-in-part, renewals and reissues thereof, and Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to said Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

Assignor hereby acknowledges that at the time of making the improvements herein identified, Assignor was under an obligation to assign to Assignee, Assignor's entire right, title and interest in, to and under said improvements;

Assignor hereby covenants that Assignor has full right to convey the interest herein assigned, and that Assignor has not executed, and will not execute, any agreement in conflict herewith and that Assignee, Northrop Grumman Space and Mission Systems Corporation, its successors, assigns and other legal representatives shall have the right to hold and enjoy for its and their own use and benefit, to the end of the term or terms for which such Letters Patent shall or may be granted, reissued or extended as fully and completely as the same right or could have been held and enjoyed by Assignor had this Assignment not been made.

Assignor hereby further covenants and agrees to communicate to Assignee, its successors, legal representatives and assigns, any and all facts known to Assignor respecting said improvements; to promptly provide Assignor with all documents relating to said improvements, said invention, and said Letters Patent as may be known or accessible to Assignor; to testify as to the same in any interference or litigation or other legal proceedings related thereto; to sign all lawful papers, execute all extensions, continuations, continuations-in-part, divisional and reissue applications; and to make all rightful oaths or declarations and generally do everything possible to aid Assignee, its successors, legal representatives and assigns in obtaining and enforcing all the rights herein conveyed for said improvements in all countries without further compensation, but at the expense of Assignee, its successors, legal representatives and assigns.

IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 12 day of August, 2008, and has executed the referenced patent application on the 12 day of August, 2008.

H. Keith Nishihara
H. Keith Nishihara

STATE OF _____)
COUNTY OF _____) ss

On _____ before me, _____, personally appeared H. Keith Nishihara, personally known to me -- or -- proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to this instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument to be the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

See attachment
Notary's Signature

(Seal)

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Santa Clara

On 12 August 2008 before me,

T. Shelton Notary

Here insert Name and Title of the Officer

personally appeared

H. Keith Nishibara

Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

T. Shelton

Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on this document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Assignment

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: H. Keith Nishibara

- ☐ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

Signer is Representing: _____

Signer's Name: _____

- ☐ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

Signer is Representing: _____

IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 11th day of August, 2008, and has executed the referenced patent application on the 11th day of August, 2008.

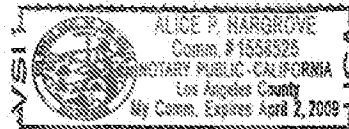
Shi-Ping Hsu
Shi-Ping Hsu

STATE OF CALIFORNIA
COUNTY OF LOS ANGELES } ss

On 8/11/2008 before me, ALICE P. HARGROVE, personally appeared Shi-Ping Hsu, ~~personally known to me~~ or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to this instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument to be the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Alice P. Hargrove, NOTARY PUBLIC
Notary's Signature



(Seal)

IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 11th day of August, 2008, and has executed the referenced patent application on the 11th day of August, 2008.

Adrian X. Kaehler
Adrian X. Kaehler

STATE OF CALIFORNIA
COUNTY OF LOS ANGELES } ss

On 8/11/2008 before me, ALICE P. HARGROVE, personally appeared Adrian X. Kaehler, ~~personally known to me~~ or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to this instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument to be the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Alice P. Hargrove, NOTARY PUBLIC
Notary's Signature



(Seal)

IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 20th day of August, 2008, and has executed the referenced patent application on the 20th day of August, 2008.

Bran Ferren
Bran Ferren

STATE OF CALIFORNIA
COUNTY OF LOS ANGELES) ss

On August 20, 2008 before me, Alice P. HARGROVE, personally appeared Bran Ferren, ~~personally known to me~~ or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to this instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature(s) on the instrument to be the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Alice P. Hargrove, NOTARY PUBLIC
Notary's Signature



(Seal)

IN WITNESS WHEREOF, the undersigned has executed and delivered this instrument this 11th day of August, 2008, and has executed the referenced patent application on the 11th day of August, 2008.

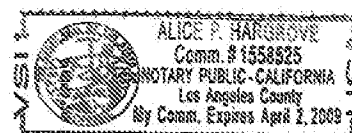
Lars Jangaard
Lars Jangaard

STATE OF CALIFORNIA
COUNTY OF Los Angeles) ss

On 8/11/2008 before me, Alice P. HARGROVE, personally appeared Lars Jangaard, ~~personally known to me~~ or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to this instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature(s) on the instrument to be the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Alice P. Hargrove, NOTARY PUBLIC
Notary's Signature



(Seal)