

09-13-2005

PATENT

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Conveying Party(ies)

Mark if additional names of conveying parties attached

Name: Maria Fatima Chandra, Executrix, signing on behalf of Dundee Navin Chandra, Deceased

Execution Date
Month Day Year
03/25/2005

Name: Suresh Toby Segaran

11/30/2004

Name: David Kightley

11/30/2004

Name: Justin Sun

11/30/2004

Name: Dexter Pratt

11/30/2004

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1): Genstruct, Inc.

Name (line 2):

Address (line 1): One Alewife Center

Address (line 2):

Address (line 3): Cambridge MA 02140
City State/Country Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name:

Address (line 1):

Address (line 2):

Address (line 3):

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PATENT
REEL: 016961 FRAME: 0004

Correspondent Name and Address

Area Code and Telephone Number (617) 261-3100

Name Patent Administrator

Address (line 1) Kirkpatrick & Lockhart Nicholson Graham LLP

Address (line 2) 75 State Street

Address (line 3)

Address (line 4) Boston, MA 02109-1808

Pages Enter the total number of pages of the attached conveyance document including any attachments. 4

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).

Table with columns for Patent Application Number(s) and Patent Number(s). Includes entry 10/992,973.

Patent Cooperation Treaty (PCT) Enter PCT application number only if a U.S. Application Number has not been assigned. PCT [] PCT [] PCT []

Number of Properties Enter the total number of properties involved. # 1

Fee Amount Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00 Method of Payment: Enclosed [X] Deposit Account [] Deposit Account Number # 50-1721 Authorization to charge additional fees: Yes [X] 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. Thomas A. Turano Name of Person Signing [Signature] Signature September 7, 2005 Date

Correspondent Name and Address

Area Code and Telephone Number (617) 261-3100

Name Patent Administrator

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Address (line 2) 75 State Street

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Patent Application Number(s)

Patent Number(s)

Table with 6 columns for application and patent numbers. First cell contains 10/992,973.

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Enter PCT application number only if a U.S. Application Number has not been assigned. PCT [] PCT [] PCT [] PCT [] PCT [] PCT []

Number of Properties Enter the total number of properties involved. # 1

Fee Amount Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00

Method of Payment: Enclosed [X] Deposit Account []

Deposit Account (Enter for payment by deposit account or if additional fees can be charged to the account) Deposit Account Number # 50-1721

Authorization to charge additional fees: Yes [X] 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.

Thomas A. Turano

Handwritten signature

April 4, 2005

Name of Person Signing

Signature

Date

ASSIGNMENT

WHEREAS, We, Dundee Navin Chandra, Suresh Toby Segaran, David Kightley, Justin Sun and Dexter Pratt have invented one or more inventions described in an application (or provisional application) for Letters Patent of the United States entitled:

System, Method and Apparatus for Causal Implication Analysis in Biological Networks

and identified by

Attorney Docket No. GEN-003, and/or executed by us on even date herewith and about to be filed in the United States Patent Office; and

Serial No. 10/992,973 filed in the United States Patent Office on November 19, 2004;
and

WHEREAS, Genstruct, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at One Alewife Center, Cambridge, MA 02140, desires to acquire an interest therein, in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the invention(s) described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon or claim priority under United States law or international convention, including but not limited to non-provisionals, continuations, divisionals, reissues, reexaminations, extensions, and substitutions of said application or such Letters Patent, and any right, title and interest we may have in provisional applications to which said application claims priority; said invention(s), applications and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all of our rights arising under or pursuant to any and all United States laws and international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, including but not limited to any cause(s) of action and damages accruing prior to this assignment. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention(s), carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all Letters Patent to ASSIGNEE in its own name as assignee of our entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention(s) to said ASSIGNEE, its successors, assigns, and legal representatives, but at its or their expense and charges, including the execution of non-

provisional, substitution, continuation, divisional, reissue, reexamination, or corresponding foreign or international patent applications;

AND, we hereby further agree to provide statements or testimony in any interference or other proceeding in which said invention(s) or any application or patent directed thereto may be involved;

AND, we hereby authorize ASSIGNEE or its attorneys or agents to insert the correct serial number and filing date into this assignment, if none is indicated on the date of our execution of this assignment;

AND, we hereby authorize and request the Director of the United States Patent and Trademark Office and the empowered officials of all other governments to issue such Letters Patent as shall be granted upon said application, or applications based thereon, to said ASSIGNEE, its successors, assigns, or legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals on the date(s) set forth below.

Inventor: Maria Fatima Chandra
Dundee Navin Chandra

Commonwealth of Massachusetts)
County of

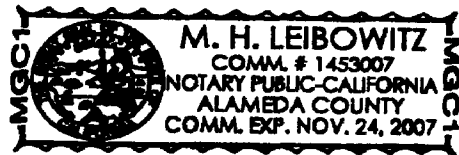
On this 25th day of MARCH, 2007, before me, the undersigned Notary Public, personally appeared Dundee Navin Chandra, ^{MARIA FATIMA} ~~proved~~ ^{SS} to me through satisfactory evidence of identification, which was ~~was~~ PERSONALLY KNOWN, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

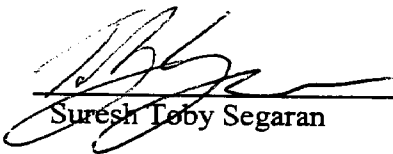
M. H. Leibowitz
Signature of Notary

(Seal)

My Commission Expires: 1-24-007

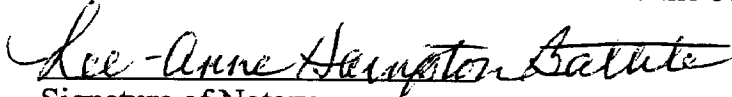
SIGNED BY EXECUTRIX



Inventor: 
Suresh Toby Segaran

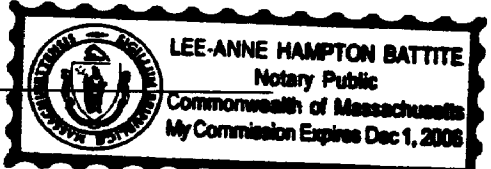
Commonwealth of Massachusetts)
County of Middlesex) ss

On this 30~~th~~ day of November, 2004, before me, the undersigned Notary Public, personally appeared Suresh Toby Segaran, proved to me through satisfactory evidence of identification, which was/were _____, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

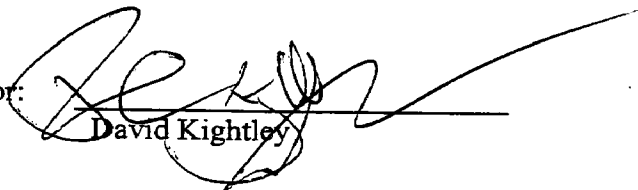

Signature of Notary

(Seal)

My Commission Expires: _____
Notary Public



My Commission Expires: _____

Inventor: 
David Kightley

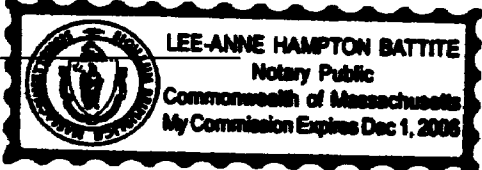
Commonwealth of Massachusetts)
County of Middlesex) ss

On this 30~~th~~ day of November, 2004, before me, the undersigned Notary Public, personally appeared David Kightley, proved to me through satisfactory evidence of identification, which was/were personal acquaintance, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.


Signature of Notary

(Seal)

My Commission Expires: _____



Inventor: Justin Sun
Justin Sun

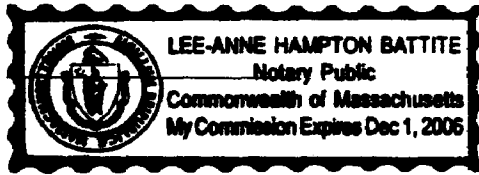
Commonwealth of Massachusetts)
County of Middlesex) ss

On this 30th day of November, 2004, before me, the undersigned Notary Public, personally appeared Justin Sun, proved to me through satisfactory evidence of identification, which was/were personal acquaintance to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Lee-Anne Hampton Battite
Signature of Notary

(Seal)

My Commission Expires:



Inventor: Dexter R. Pratt
Dexter Pratt

Commonwealth of Massachusetts)
County of Middlesex) ss

On this 30th day of November, 2004, before me, the undersigned Notary Public, personally appeared Dexter Pratt, proved to me through satisfactory evidence of identification, which was/were personal acquaintance to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Lee-Anne Hampton Battite
Signature of Notary

(Seal)

My Commission Expires:



3144838

EXHIBIT A

foreign taxing authority with respect to all property taxable by reason of my death, together with interest and penalties on those taxes, shall be charged against and paid without apportionment out of the residue of my estate as an administration expense with no right of reimbursement from any recipient of any such property.

B. Reference to Code. I hereby make specific reference to Code Sec. 2207A (concerning tax on QTIP property), Code Sec. 2207B (concerning tax on property included under Code Sec. 2036), and Code Sec. 2603(b) (concerning the generation-skipping transfer tax under Chapter 13) and to corresponding provisions of state law and I direct that they shall apply to the extent they are consistent with the above, and shall not apply to the extent they are inconsistent with the above.

C. Apportionment Prevails Over Abatement. If payment of taxes from my residuary estate in accordance with the foregoing exhausts my residuary estate, the balance of tax due shall be apportioned in accordance with the rules of tax apportionment rather than the rules of abatement.

ARTICLE V.

Executors

A. Initial Appointments.

I appoint my Wife, Maria Fatima Chandra, to be the Executrix and Temporary Executrix of this Will.

B. Successors.

1. I appoint Emilia O'Toole of San Leandro, California, to be the Successor Executor and Temporary Executor of this Will if and when my Wife shall fail to qualify or cease to act.

2. Any reference to "Executor" includes any successor, unless expressly indicated.



LAST WILL AND TESTAMENT OF DUNDEE J. NAVIN-CHANDRA
PAGE 3 OF 13

EXHIBIT B

Commonwealth of Massachusetts
The Trial Court

Middlesex Division Probate and Family Court Department Docket No. 04P1971EP

Probate of Will With/Without Sureties 3e

Name of Decedent Dundee J. Navin-Chandra a.k.a Dundee Navin Chandra

Domicile at Death 7 Goodnow Lane Framingham
(Street and No.) (City or Town)

Middlesex 01702 Date of Death January 29, 2004
(County) (Zip)

Name and address of Petitioner(s) Maria Fatima Chandra, 18451 Carlton Avenue, Castro Valley, CA 94546
Status named Executrix

Heirs at law or next of kin of deceased including surviving spouse:

Name	Residence (minors and incompetents must be so designated)	Relationship
Maria Fatima Chandra	18451 Carlton Avenue, Castro Valley, CA 94546	spouse
Nelson Raj Rodrigues Chandra	18451 Carlton Avenue, Castro Valley, CA 94546	son (minor)
Felicia Rodrigues Chandra	18451 Carlton Avenue, Castro Valley, CA 94546	daughter (minor)
Chelsea Rodrigues Chandra	18451 Carlton Avenue, Castro Valley, CA 94546	daughter (minor)

The said deceased left a will - and codicil(s) - herewith presented, wherein your petitioner(s) is/are named executrix and wherein the testator had requested that your petitioner(s) be exempt from giving surety on his/her/their bond(s).

The petitioner(s) hereby certifies that a copy of this document, along with a copy of the decedent's death certificate has been sent by certified mail to the Division of Medical Assistance, P.O. Box 15205, Worcester, Massachusetts 01615-9906.

Wherefore your petitioner(s) pray(s) that said will - and codicil(s) - may be proved and allowed and that he/she/they be appointed executrix thereof, with/without surety on his/her/their bond(s) and certifies under the penalties of perjury that the statements herein contained are true to the best of his/her/their knowledge and belief.

Date 7-21-04 Signature(s) Maria Fatima Chandra

The undersigned hereby assent to the foregoing petition and to the allowance of the will without testimony.

DECREE

All persons interested having been notified in accordance with the law or having assented and no objections being made thereto, it is decreed that said instrument(s) be approved and allowed as the last will and testament of said deceased, and that said petitioner(s):

of _____ and _____ of _____ be appointed executrix thereof, first giving bond with _____ sureties for the due performance of said trust.

Date July 22, 2004 Dorothy M. Gibson
JUSTICE OF THE PROBATE AND FAMILY COURT

CJ-P2 (11/01)