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PATENTS ONLYU.S. DEPARTMENT OF COMMERCE
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

1. Name of conveying party(ies):

Shivkumar Kalyanaraman, Boleslaw K. Szymanski,
Kenneth Vastola, Ye Tao, David HarrisonAdditional name(s) of conveying party(ies)
attached?☐

Yes

☒

No

3. Nature of Conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date: December 4, 2002

2. Name and address of receiving party(ies)

Name: Rensselaer Polytechnic Institute

Internal Address:

Street Address:

3210 J Building
Troy, NY 12180

City:

State:

Zip:

Additional name(s) &
address(es) attached:☐

Yes

☒

No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the new application is:

A. Patent Application No.(s):

10/149,207

B. Patent No.(s):

Additional numbers attached?

☐

Yes

☒

No

5. Name and address of party to whom correspondence
concerning document should be mailed:

Name: Jon D. Grossman

DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP

Internal Address: Atty. Dkt.: R1797.0002/P002

Street Address:

2101 L Street NW

City:

Washington

State:

DC

Zip:

20037-1526

6. Total number of applications and
patents involved:

1

7. Total fee (37 CFR 3.41)

\$ 40.00

☐ Enclosed☒ Authorized to be charged to deposit account☒ Authorized to be charged to credit card
(Form 2038 enclosed)

8. Deposit account number:

04-1073

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. 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.

Jon D. Grossman (32,699)

Name of Person Signing

Signature

December 13, 2002

Date

Total number of pages including cover sheet, attachments, and documents: 9

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made this _____ day of _____, _____, by Shivkumar Kalyanaraman; Boleslaw K. Szymanski; Kenneth Vastola; Ye Tao; and David Harrison (hereinafter referred to as Assignors), residing at c/o Rensselaer Polytechnic Institute, 3210 J Building, Troy, New York 12180.

WHEREAS, Assignors have invented certain new and useful improvements in NETWORK MANAGEMENT AND CONTROL USING COLLABORATIVE ON-LINE SIMULATION, set forth in a Patent application for Letters Patent of the United States, already filed on June 11, 2002 as U.S. application No. 10/149,207; and

WHEREAS, Rensselaer Polytechnic Institute, a organization organized under and pursuant to the laws of the United States having its principal place of business at 3210 J Building, Troy, New York 12180 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and

assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that 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, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will 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 any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

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

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP

Gary M. Hoffman	26,411	John C. Luce	34,378	Ellen S. Tao	43,383
Thomas J. D'Amico	28,371	Peter McGee	35,947	Gary L. Veron	39,057
Donald A. Gregory	28,954	Edward A. Meilman	24,735	Steven I. Weisburd	27,409
James W. Brady, Jr.	32,115	Edwin Oh	45,319	Mialecka C. Williams-Bibbs	48,037
Jon D. Grossman	32,699	William E. Powell, III	39,803	Jeremy A. Cubert	40,399
Mark J. Thronson	33,082	Steven Rubin	43,063	Gianni Minutoli	41,198
Eric Oliver	35,307	Michael J. Scheer	34,425	Michael Bergman	42,318
Laurence E. Fisher	37,131			Salvatore P. Tamburo	45,153
Gabriela Coman	50,515	Stephen A. Soffen	31,063	Peter A. Veytsman	45,920
Ryan H. Flax	48,141	Christopher M. Tanner	41,518	Christopher S. Chow	46,493
Richard LaCava	41,135				

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Shivkumar Kalyanaraman
Shivkumar Kalyanaraman

Date: October 4, 2002

United States of America)
State of New York) ss.:
County of Rensselaer)

On this 4th day of October, 2002, before me
personally came Shivkumar Kalyanaraman, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.

Eleanor F. Meyer
Notary Public

— ELEANOR F. MEYER
Notary Public, State of New York
Residing in Albany County
Commission Expires Mar. 30, ~~19~~
4609048 2003

Boleslaw K. Szymanski
Boleslaw K. Szymanski

Date: Oct 2, 2002

United States of America)
State of New York) ss.:
County of Rensselaer)

On this 2nd day of October, 2002, before me
personally came Boleslaw K. Szymanski, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.

Eleanor F. Meyer
Notary Public

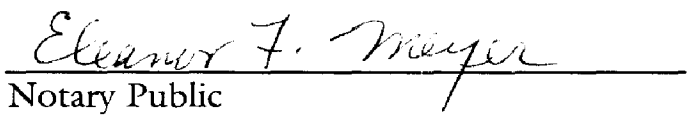
ELEANOR F. MEYER
Notary Public, State of New York
Residing in Albany County
Commission Expires Mar. 30, ~~19~~ 2003
4609048


Kenneth Vastola

Date: December 4, 2002

United States of America)
State of New York) ss.:
County of Seneca)

On this 4th day of December, 2002, before me personally came Kenneth Vastola, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.


Notary Public

ELEANOR F. MEYER
Notary Public, State of New York
Residing in Albany County
Commission Expires Mar. 30, ~~19~~
4609048 2003

TM
Ye Tao

Date: 10/4/02

United States of America)
State of New York) ss.:
County of Renss)

On this 4th day of Oct, 2002, before me
personally came Ye Tao, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.

Chandra L. Dickinson
Notary Public

CHANDRA L. DICKINSON
Notary Public, State of New York
Qualified in Rensselaer County
Reg. No. 01D15030415
Commission Expires July 18, 2006

D.H.
David Harrison

Date: NOVEMBER 20, 2002

United States of America)
State of NEW YORK) ss.:
County of RENSSELAER)

On this 20TH day of NOVEMBER, 2002, before me
personally came David Harrison, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.

Jill C. Keyes
Notary Public

JILL C. KEYES
Notary Public, State of New York
Qualified in Rensselaer County
Commission Expires May 31 2003
Reg. #01KE4613018