

To the Honorable Commissioner of Patents and Trademarks.

original documents or copy thereof.

1. Name of conveying party(ies):

Daniel John BERKERY (March 22, 2004)
Konanur Chandra SHEKAR (March 22, 2004)
Joseph Allen JENKINS (March 22, 2004)
Joel Lamarr LINDSEY, Jr. (March 18, 2004)
Thomas J. DROLET (March 22, 2004)



2. Name and address of receiving party(ies):

Name: Manugistics, Inc.

Internal Address: 9715 Key West Avenue
Rockville, Maryland 20850Street address: 9715 Key West Avenue
Rockville, Maryland 20850Additional name(s) & address(es) attached? ☐ Yes ☒ NoAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

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

Execution Date: see above

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

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

A. Serial No.

10/704,141

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: **Celine Crowson, Esquire**
Internal Address: **Hogan & Hartson LLP**
Street Address: **Columbia Square**
555 Thirteenth Street, N.W.
City: **Washington** State: **D.C.** Zip: **20004-1109**

Customer No. 24633

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

8. Deposit account number: 50-1349
(Attach duplicate copy of this page if paying by deposit account)

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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.

Celine Jimenez Crowson. Registration No. 40,357
Name of Person signing

[Signature] #47818
Signature

April 1, 2004
Date

04/05/2004 BYRNE 00000138 10704141

Total number of pages including cover sheet, attachments and document: 6 pages

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

ASSIGNMENT

WHEREAS WE, the below named inventors [hereinafter referred to as Assignors], have made an invention entitled:

DESIGN FOR HIGHLY-SCALABLE DISTRIBUTED REPLENISHMENT PLANNING ALGORITHM

for which an application for United States Letters Patent is filed herewith or an application for United States Letters Patent was filed as application number **10/704,141**, on **November 10, 2003**;

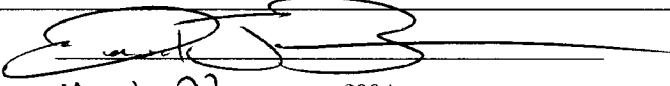
AND WHEREAS, Manugistics, Inc. a corporation of Delaware, whose post office address is 9715 Key West Avenue, Rockville, Maryland 20850, [hereinafter referred to as Assignee], is desirous of securing the entire right, title and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW, THEREFORE, be it known that, for and in consideration of the sum of one dollar (\$1.00) in hand paid and other good and valuable consideration, the receipt of which from assignee, is hereby acknowledged, WE, as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, OUR entire right, title and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals and reissues thereof; and WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

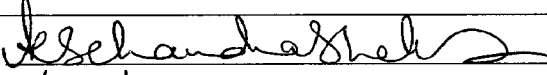
AND, WE HEREBY covenant that WE have the full right to convey the interest assigned by this Assignment, and WE have not executed and will not execute any agreement in conflict with this Assignment;

AND WE HEREBY further covenant and agree that WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to US respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by assignees, its successors and assigns.

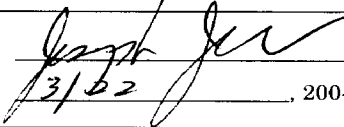
IN TESTIMONY WHEREOF, WE have hereunto set our hands.

Full Name of First Inventor:	Daniel John BERKERY
Post Office Address:	106 Adele Garden Way Herndon, Virginia 20170
First Assignor's Signature and Date:	 March 22, 2004

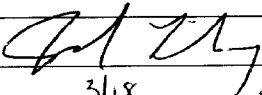
NAMES OF ADDITIONAL INVENTOR'S SIGNATURES ATTACHED [X] YES [] NO

<i>Full Name of Second Inventor:</i>	Konanur Chandra SHEKAR
<i>Post Office Address:</i>	9 Granite Ridge Court North Potomac, Maryland 20878
<i>Second Assignor's Signature and Date</i>	 3/22/_____, 2004

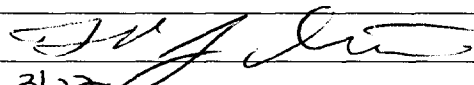
NAMES OF ADDITIONAL INVENTOR'S SIGNATURES ATTACHED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
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<i>Full Name of Third Inventor:</i>	Joseph Allen JENKINS
<i>Post Office Address:</i>	1200 North Veitch Street #902 Arlington, Virginia 22201
<i>Third Assignor's Signature and Date</i>	 3/02, 2004

NAMES OF ADDITIONAL INVENTOR'S SIGNATURES ATTACHED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
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<i>Full Name of Fourth Inventor:</i>	Joel Lamarr LINDSEY Jr.
<i>Post Office Address:</i>	5313 Bangor Drive Kensington, Maryland 20895
<i>Fourth Assignor's Signature and Date</i>	 3/18, 2004

NAMES OF ADDITIONAL INVENTOR'S SIGNATURES ATTACHED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
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<i>Full Name of Fifth Inventor:</i>	Thomas J. DROLET
<i>Post Office Address:</i>	11402 Brook Run Drive Germantown, Maryland 20876
<i>Fifth Assignor's Signature and Date</i>	 3/22, 2004

NAMES OF ADDITIONAL INVENTOR'S SIGNATURES ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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