

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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|------------------------------|---|
| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the erroneously recorded Serial Number 10/689,101 previously recorded on Reel 014271 Frame 0465. Assignor(s) hereby confirms the Assignment. |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| Ponani Gopalakrishnan | 01/15/2004 |
| Stephane H. Maes | 11/04/2003 |
| Ganesh N. Ramaswamy | 12/05/2003 |

RECEIVING PARTY DATA

| | |
|------------------------|------------------|
| Name: | IBM Corporation |
| Street Address: | Old Orchard Road |
| City: | Armonk |
| State/Country: | NEW YORK |
| Postal Code: | 10504 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|----------------|---------|
| Patent Number: | 7454608 |

CORRESPONDENCE DATA

Fax Number: (412)741-9292
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
 Phone: 412-741-8400
 Email: jhayes@ferencelaw.com
 Correspondent Name: Ference & Associates LLC
 Address Line 1: 409 Broad Street
 Address Line 4: Pittsburgh, PENNSYLVANIA 15143

| | |
|--------------------------------|------------------------|
| ATTORNEY DOCKET NUMBER: | 590.112 |
| NAME OF SUBMITTER: | Stanley D. Ference III |

Total Attachments: 7

500794489

**PATENT
 REEL: 022320 FRAME: 0857**

OP \$40.00 7454608

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source=MaesAssignment#page2.tif
source=RamaswamyAssignment#page1.tif
source=RamaswamyAssignment#page2.tif

CORDATION FORM COVER SHEET PATENTS ONLY

To the Honorable Commissioner of Patents: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Ponani Gopalakrishnan, Stephane H. Maes and Ganesh N. Ramaswamy

Additional name(s) of conveying party(ies) attached? Yes No

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

Name: IBM Corporation

Address: _____

City: Armonk State: NY Zip: 10504

3. Nature of conveyance:

- Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: Jan.15,2004, Nov. 4, 2003, Dec. 5, 2003

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 application is: _____

A. Patent Application No(s).

10/689,101

B. Patent No(s).

Additional numbers attached? Yes No

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

Name: Stanley D. Ference III

FERENCE & ASSOCIATES

Address: 400 Broad Street

City: Pittsburgh State: PA Zip: 15143

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
 Charge any deficiency to deposit account

8. Deposit account number:

50-0510

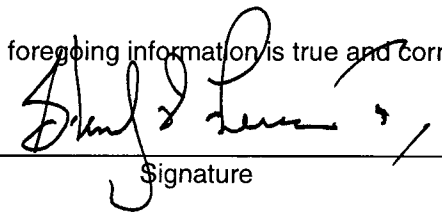
(Attach duplicate copy of this page if paying by deposit account)

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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 and correct copy of the original document.

Stanley D. Ference III
Name of Person Signing


Signature

January 20, 2004
Date

Total number of pages including cover sheet, attachments, and document: 7

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Mail Stop Assignments
P.O. Box 1450, Alexandria VA 22313-1450

PATENT
REEL: 022320 FRAME: 0859

Assignment

Whereas, we

INVENTOR
AND CITY

(1) Ponani Gopalakrishnan

of New Delhi,
and Country of INDIA

INVENTOR
AND CITY

(2) Stephane H. Maes
County of Alameda

of Fremont,
and State of California

INVENTOR
AND CITY

(3) Ganesh N. Ramaswamy
County of Westchester

of Ossining,
and State of New York

have invented certain improvements in

TITLE

RESOURCE CONFIGURATION IN MULTI-MODAL DISTRIBUTED
COMPUTING SYSTEMS

and have executed, respectively, a United States patent application therefor on even date herewith.

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

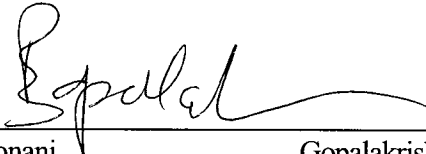
Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said applications to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

(JOINT FORM)

(IBM Docket) YOR920030447US1
(590.112)

Signed and sealed

CITY AND DATE NEW DELHI (1) on Jun 15, 2003



(Ponani Gopalakrishnan) SIGNATURE INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

CITY AND DATE (2) at _____, 2003

(Stephane H. Maes) SIGNATURE INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

CITY AND DATE (3) at Yorktown Heights on _____, 2003

(Ganesh N. Ramaswamy) SIGNATURE INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

Assignment

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AND CITY

(1) Ponani Gopalakrishnan

of New Delhi,
and Country of INDIA

INVENTOR
AND CITY

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of Fremont,
and State of California

INVENTOR
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Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said applications to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

(JOINT FORM)

(IBM Docket) YOR920030447US1
(590.112)

Signed and sealed

CITY AND (1)
DATE on , 2003

(Ponani Gopalakrishnan) SIGNATURE
INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

CITY AND (2) at Redwood Shores
DATE on 11/4 , 2003

(Stephane H. Maes) SIGNATURE
INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

CITY AND (3) at Yorktown Heights
DATE on , 2003

(Ganesh N. Ramaswamy) SIGNATURE
INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

Assignment

Whereas, we

INVENTOR (1) Ponani Gopalakrishnan of New Delhi,
AND CITY and Country of INDIA

INVENTOR (2) Stephane H. Maes of Fremont,
AND CITY County of Alameda and State of California

INVENTOR (3) Ganesh N. Ramaswamy of Ossining,
AND CITY County of Westchester and State of New York

have invented certain improvements in

TITLE RESOURCE CONFIGURATION IN MULTI-MODAL DISTRIBUTED
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DATE on , 2003

(Ponani Gopalakrishnan) SIGNATURE
INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

CITY AND (2) at
DATE on , 2003

(Stephane H. Maes) SIGNATURE
INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

CITY AND (3) at Yorktown Heights
DATE on December 5, 2003

Ganesh N. Ramaswamy SIGNATURE
(Ganesh N. Ramaswamy) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME