

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Lakshminarayana B Arimilli	08/24/2007
Ravi K Arimilli	08/24/2007
Ramakrishnan Rajamony	08/24/2007
William E Speight	08/24/2007

RECEIVING PARTY DATA

Name:	International Business Machines Corporation
Street Address:	New Orchard Road
City:	Armonk
State/Country:	NEW YORK
Postal Code:	10504

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11845223

CORRESPONDENCE DATA

Fax Number: (512)823-1036

*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*

Phone: 5128239667

Email: shrodrig@us.ibm.com

Correspondent Name: Diana R. Gerhardt

Address Line 1: 11400 Burnet Road

Address Line 2: IBM-Intellectual Property Law

Address Line 4: Austin, TEXAS 78758-3493

ATTORNEY DOCKET NUMBER:

AUS920070709US1

NAME OF SUBMITTER:

Diana R Gerhardt

Total Attachments: 2

PATENT

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REEL: 019792 FRAME: 0170

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**ASSIGNMENT**

Whereas, we,

- |   |                                 |
|---|---------------------------------|
| (1) <u><b>Lakshminarayana B. Arimilli</b></u><br>County of Travis | of Austin<br>and State of Texas |
| (2) <u><b>Ravi K. Arimilli</b></u><br>County of Travis            | of Austin<br>and State of Texas |
| (3) <u><b>Ramakrishnan Rajamony</b></u><br>County of Travis       | of Austin<br>and State of Texas |
| (4) <u><b>William E. Speight</b></u><br>County of Travis          | of Austin<br>and State of Texas |

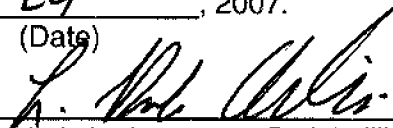
have invented certain improvements in


**SYSTEM AND METHOD FOR PROVIDING FULL HARDWARE SUPPORT OF COLLECTIVE OPERATIONS IN A MULTI-TIERED FULL-GRAPH INTERCONNECT ARCHITECTURE**


and executed, respectively, a United States patent application therefore on  
(Dates Inventors Signed Declaration) (1) 8/24, (2007); (2) 8/24, (2007);  
(3) 8/24, (2007); (4) 8/24, (2007).

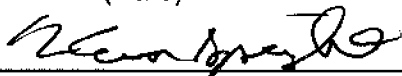
Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents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

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 in all 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 invention set forth in said application 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.

(1) Signed at Austin, TX on 8/24, 2007.  
(City) (Date)  
  
Lakshminarayana B. Arimilli

(2) Signed at Austin, TX on 8/24, 2007.  
(City) (Date)  
  
Ravi K. Arimilli

(3) Signed at Austin, TX on 8/24, 2007.  
(City) (Date)  
  
Ramakrishnan Rajamony

(4) Signed at Austin, TX on 8/24, 2007.  
(City) (Date)  
  
William E. Speight