

Form PTO -1595 (Modified)

(Rev. 6-93)

OMB 0651-0011 (exp. 4/94)

05-27-2005



U.S. Department of Commerce

Patent and Trademark Office

PATENT

F

103010609

SHEET

PATENTS ONLY

11/13/05
11/13/05
11/13/05

TO: The Honorable Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies)

1. Name of conveying party(ies):

Paul E. McKenneyMaged M. Michael

2. Nature of Conveyance:

- | | | | |
|-------------------------------------|------------|--------------------------|--------------------|
| <input checked="" type="checkbox"/> | Assignment | <input type="checkbox"/> | Security Agreement |
| <input type="checkbox"/> | License | <input type="checkbox"/> | Change of Name |
| <input type="checkbox"/> | Merger | <input type="checkbox"/> | Other |

Execution Date: 5-18-2005 for both inventors

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

Name: International Business Machines Corporation

Address:

City: ArmonkState: NYCountry: USAZIP: 10504

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

If this document is being filed together with a new application, the execution date of the application is: 5-18-2005 for both inventors

Patent Application No.

Patent No.(s)

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

Name: Michael DryjaRegistration No.: 39,662Address: 704 228th Ave NE #694City: SammamishState: WACountry: USAZIP: 98074Telephone: 425-427-5094Fax: 425-563-20986. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$40.00☐ Enclosed☒ Authorization ALREADY provided to charge deposit account8. Deposit account number: 501336**CUSTOMER NUMBER 49474**

05/26/2005 ECOOPER 00000136 501336 11134484

01 FC:8021

40.00 DA

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.*Michael Dryja

Name of Person Signing

Signature

Date

5-19-05

PATENT

REEL: 016595 FRAME: 0699

ASSIGNMENT OF PATENT APPLICATION

Whereas, we,

Paul E. McKenney
County of Washington,

City of Beaverton,
and State of Oregon

Maged M. Michael
County of Fairfield,

City of Danbury,
and State of Connecticut

each have invented certain improvements in

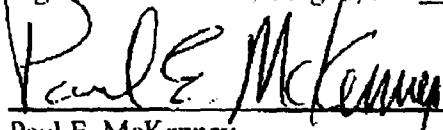
Hybrid multi-threaded access to data structures using hazard pointers for reads and locks for updates
and have executed, respectively, a United States patent application therefor on

5/18/05

And 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, I, 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 I 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 I hereby agree that IBM may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Signed at Beaverton, Oregon, this 18TH day of MAY, 2005.



Paul E. McKenney

Signed at Beaverton, Oregon, this ____ day of ____, ____.

Maged M. Michael

Signed at Beaverton, Oregon, this ____ day of ____, ____.

Assignment

ASSIGNMENT OF PATENT APPLICATION

Whereas, we,

Paul E. McKenney
County of Washington,

City of Beaverton,
and State of Oregon

Maged M. Michael
County of Fairfield,

City of Danbury,
and State of Connecticut

each have invented certain improvements in

Hybrid multi-threaded access to data structures using hazard pointers for reads and locks for updates

and have executed, respectively, a United States patent application therefor on

5/18/05

And 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, I, 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 I 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 I hereby agree that IBM may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Signed at Beaverton, Oregon, this ____ day of _____.

Paul E. McKenney

Signed at Yorktown, New York, this 18 day of May, 2005.

Maged M. Michael
Maged M. Michael

Assignment

Page 2 of 2

** TOTAL PAGE.05 **

RECORDED: 05/20/2005

PATENT
REEL: 016595 FRAME: 0703