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To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Daniel Alan Brokenshire, Barry L. Minor and Mark Richard Nutter

2. Name and address of receiving party(ies): International Business Machines Corporation  
New Orchard Road  
Armonk, New York 10504

3. Nature of conveyance: X Assignment

Execution Date: December 15, 2000

9/740526

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 December 15, 2000

A. Patent Application No.(s) B. Patent No.(s)

5. Name and address of party to whom correspondence concerning document should be mailed: Mark E. McBurney  
IBM Corporation  
Intellectual Property Law  
Internal Zip 4054  
11400 Burnet Road  
Austin, TX 78758  
(512) 823-1003

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00

X Authorized to be charged to deposit account

8. Deposit account number: 09-0447

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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.

Mark E. McBurney Signature 12/18/00 Date

Name of Person Signing

Total number of pages including cover sheet: 2

**A S S I G N M E N T**

Whereas, we,

(1) Daniel Alan Brokenshire of Round Rock,  
County of Williamson and State of Texas,

and  
(2) Barry L. Minor of Austin,  
County of Travis and State of Texas,

and  
(3) Mark Richard Nutter of Austin,  
County of Travis and State of Texas,

have invented certain improvements in

**TIGHTENED BOUNDING VOLUMES FOR BSP-TREES**

and executed, respectively, a United States patent application therefore on  
(Dates Inventors Signed Declaration) (1) Dec 15, 2000, and (2)  
Dec 15, 2000 and (3) Dec 15, 2000.

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 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 on Dec 15, 2000.  
Daniel Alan Brokenshire  
Daniel Alan Brokenshire

(2) Signed at Austin on Dec 15, 2000.  
Barry L. Minor  
Barry L. Minor

(3) Signed at Austin on Dec 15, 2000.  
Mark Richard Nutter  
Mark Richard Nutter