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   William Hsiao-Yu Ku
   John Shih-Yuan Wang

2. Name and address of receiving party(ies):
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   Armonk, New York 10504

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4. Application number(s) or patent number(s):
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A. Patent Application No.(s)
B. Patent No.(s)

5. Name and address of party to whom correspondence concerning document should be mailed:
   David A. Mims, Jr.
   IBM Corporation
   Intellectual Property Law
   Internal Zip 4054
   11400 Burnet Road
   Austin, TX 78758
   (512) 823-0950

6. Total number of applications and patents involved: 1

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PATENT
REEL: 010159 FRAME: 0328
ASSIGNMENT

Whereas, we,

(1) William Hsiao-Yu Ku
    County of Travis
    of Austin, Texas,
    and State of Texas,

and

(2) John Shih-Yuan Wang
    County of Travis
    of Austin, Texas,
    and State of Texas,

have invented certain improvements in

APPARATUS, METHOD, AND PROGRAM PRODUCT FOR FACILITATING NAVIGATION AMONG TREE
NODES IN A TREE STRUCTURE

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

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 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 Aug. 4 1999.
   
   Hsiao-Yu Ku
   William Hsiao-Yu Ku

and (2) Signed at Austin on Aug. 7 1999.

   Shih-Yuan Wang
   John Shih-Yuan Wang