

12-10-2001

MSFT-0570/167379.1



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To The Honorable Commissioner of Patents and Trademarks. Please refer to the attached original documents or copy thereof.

1. Name of conveying party(ies):

Patrick Eugene O'Neil November 20, 2001  
 First Assignor Date of Execution

Elizabeth Jean O'Neil November 20, 2001  
 Second Assignor Date of Execution

Third Assignor Date of Execution

Fourth Assignor Date of Execution

Fifth Assignor Date of Execution

Sixth Assignor Date of Execution

Additional name(s) of conveying party(ies) attached? ( ) YES (X) NO

11/30/01

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

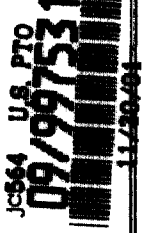
Name: **MICROSOFT CORPORATION**

Street Address: **One Microsoft Way**

City: : **Redmond**

State **Washington** ZIP **98052**

Additional name(s) & address attached? ( ) YES (X) NO



3. Nature of Conveyance (check only one):

(x) New Assignment ( ) Merger  
 ( ) License Agreement ( ) Security Agreement  
 ( ) Change of Name ( ) Other:

( ) Cross-reference of Assignment filed in United States  
 Application No. \_\_\_/\_\_\_/\_\_\_, recorded on \_\_\_ at  
 Reel No. \_\_\_ and Frame No. \_\_\_

4. Identification of Application number(s), patent number(s) OR date of execution of application to which assignment refers:

Application Nos.: Patent Nos.: Date application was signed by the first named executing inventor  
 November 20, 2001  
 (Fill-in this date only if assignment is filed together with a new application)

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

Name: Peter M. Ullman  
 WOODCOCK WASHBURN LLP  
 One Liberty Place - 46th Floor  
 Philadelphia, Pennsylvania 19103-7301  
 215-568-3100

12/07/2001 6TDM11 00000086 09997531  
 01 EC:581 40.00 00

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 Number 23-3050

8. Please charge any deficiency or credit any overpayment to Deposit Account Number 23-3050

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.*

Peter M. Ullman/43,963  
 Name of Person Signing/Reg. No. Signature Date

11-30-01

Total number of pages including cover sheet, assignment document and additional pages attached thereto: 5

Mail documents to be recorded with required cover sheet information to:  
 Commissioner of Patents and Trademarks  
 Box Assignments  
 Washington, D.C. 20231

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Serial Number.....Not Yet Assigned  
Filing Date..... Herewith  
Inventorship..... Patrick Eugene O'Neil, *et al.*  
Applicant..... Microsoft Corporation  
Attorney's Docket No. ....MSFT-0570/167379.1  
Title: SYSTEM AND METHOD FOR RELATIONAL REPRESENTATION  
OF HIERARCHICAL DATA

**PATENT ASSIGNMENT**

**PARTIES TO THE ASSIGNMENT**

**Assignor(s):**

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Elizabeth Jean O'Neil  
27 Ware Street  
Cambridge, Massachusetts 02138

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8127 149<sup>th</sup> Place NE, Unit B309  
Redmond, Washington 98052

F. Soner Terek  
13695 NE 32<sup>nd</sup> Place  
Bellevue, Washington 98005

Assignee:

Microsoft Corporation  
Corporation in the State of Washington  
One Microsoft Way  
Redmond, WA 98052

AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled "System and Method for Relational Representation of Hierarchical Data" as described and claimed in the specification forming part of an application for United States letters patent referenced above;

WHEREAS, Microsoft Corporation (hereinafter referred to as ASSIGNEE), a corporation of the State of Washington having a place of business at One Microsoft Way, Redmond, WA 98052, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

Nov 20, 2001  
Date

Patrick Eugene O'Neil  
Patrick Eugene O'Neil

Nov. 20, 2001  
Date

Elizabeth Jean O'Neil  
Elizabeth Jean O'Neil

\_\_\_\_\_  
Date

\_\_\_\_\_  
Shankar Pal

\_\_\_\_\_  
Date

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Gideon Schaller

\_\_\_\_\_  
Date

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Istvan Cseri

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Date

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Jose A. Blakeley

\_\_\_\_\_  
Date

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Nigel Clifton Westbury

\_\_\_\_\_  
Date

\_\_\_\_\_  
Sameet Agarwal

\_\_\_\_\_  
Date

\_\_\_\_\_  
F. Soner Terek