

PATENT ASSIGNMENT

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT OF ASSIGNOR'S INTEREST

CONVEYING PARTY DATA

Conveying Party Name: Andrew L. Bliss

Execution Date: 12/20/2000

Conveying Party Name: Kyle R. Johns

Execution Date: 12/20/2000

RECEIVING PARTY DATA

Receiving Party Name: Microsoft Corporation

Street Address: One Microsoft Way

Internal Address:

City: Redmond

State:

Country: UNITED STATES

Postal Code: 98052

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CUSTOMER NUMBER: 027372

To the best of my knowledge, the foregoing information is true and correct and any attached copy is a true copy of the original document.

NAME OF PERSON SIGNING: Gwilym John Owen Attwell

DATE SIGNED: 12/20/2000

Total Attachments: 2

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ASSIGNMENT

WHEREAS, we, **Andrew L. Bliss** and **Kyle R. Johns** (hereinafter referred to as ASSIGNORS), having post office addresses of 14924 NE 74th Court, Redmond Washington 98052; and 21516 NE 14th Street, Redmond, Washington 98053, respectively, are the joint inventors of an invention entitled "CHAINING ACTIONS FOR TRAVERSAL OF A DIRECTED GRAPH," as described and claimed in the specification forming part of an application for United States letters patent executed herewith:

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;

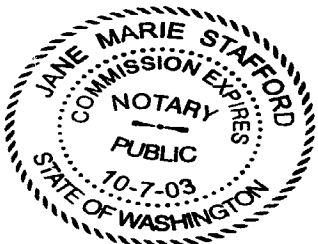
NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted 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 ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS 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 purposes of protecting title to said invention or letters patent therefor.

Washington State : Andrew L Bliss (L.S.)
ANDREW L. BLISS

COUNTY OF King : SS

On this 15 day of December, year of 2000, before me personally came the above named **Andrew L. Bliss** to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth

Jane Marie Stafford
Notary Public

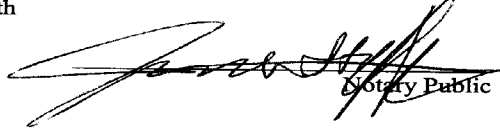


Kyle R. Johns (L.S.)
KYLE R. JOHNS

State of Washington :

COUNTY OF King : SS

On this 15th day of December, year of 2000, before me personally came the above named **Kyle R. Johns** to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth


Notary Public

