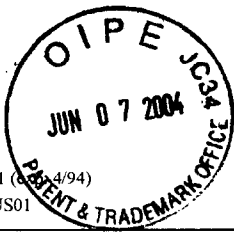


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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

FORM PTO-159s
(Rev. 6-93)
OMB No. 0651-0011 (6/04/94)
M&G- 50037.0237US01

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3. Nature of conveyance:

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Execution Date: June 4, 2004

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:

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

10/750,455

Additional numbers attached? Yes No

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Name: Mark R. Hennings
Address: Merchant & Gould P.C.
P.O. Box 2903
Minneapolis, MN 55402-0903

6. Total number of applications and patents involved:

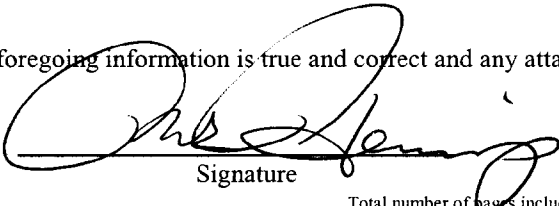
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PATENT TRADEMARK OFFICE

06/09/2004 GWORDF1 00000092 10750455
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PATENT
REEL: 015436 FRAME: 0267

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial Number..... 10/750,455
 Filing Date..... 12/31/2003
 Inventorship..... Michael Swafford et al.
 Applicant..... Microsoft Corporation
 Attorney's Docket No. 50037.0237US01
 MS Docket No. 307764.01
 Title: OVERWRITE DETECTION DIAGNOSTIC FOR MEMORY HEAP

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s):

Michael Swafford
 2470 130th Avenue SE
 Bellevue, WA 98005

Kevin Charles Chase
 9301 Avondale Rd. N.E., Apt C-1012
 Redmond, WA 98052

Assignee:

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

AGREEMENT

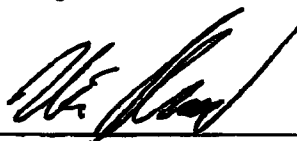
WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled "OVERWRITE DETECTION DIAGNOSTIC FOR MEMORY HEAP," as described and claimed in the specification forming part of an application for United States letters patent referenced above;

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 therefore 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 therefore.

6/4/2004

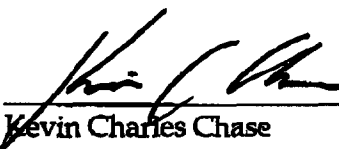
Date



Michael Swafford

6/4/2004

Date



Kevin Charles Chase