	U.S. DEPARTMENT OF COMMERCE	
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Name of conveying parties: Joseph C. BALLANTYNE and Landy WANG	Name and address of receiving party(ies):	
☐ Individuals ☐ Association ☐ General Partnership ☐ Limited Partnership ☐ Corporation-State ☐ Other	Name: Microsoft Corporation Street Address: One Microsoft Way City: Redmond, State: Washington ZIP: 98052	
Additional name(s) of conveying party(ies) attached? ☐Yes ☒No		
3. Nature of conveyance:	Additional name(s) & address(cs) attached? Yes No	
Application number(s) or patcnt number(s):		
If this document is being filed together with a new application, the e	proportion date of the profession is	
A. Patent Application No.(s)	B. Patent No.(s)	
10/945,093 Additional numbers attached? ☐ Yes ☒ No	D. 1 mont 140.(3)	
·		
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1	
Scott B. Strohm SHOOK, HARDY & BACON L.L.P. 2555 Grand Boulevard Kansas City, Missouri 64108	7. Total fec (37 C.F.R. § 3.41); \$40.00	
	☐ Enclosed	
	Authorized to be charged to deposit account, referencing Attorney Docket MFCP.111855	
	8. Deposit account number: 19-2112	
The Commissioner is hereby authorized to charge any fees under 37 C.F.R. § 1.21 that may be	required by this paper, or to credit any overpayment to Deposit Account No. 19-2112.	
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9. Statement and signature.		
To the best of my knowledge and belief, the foregoing information is document.		
Name: Kerry H. Owens	February 7, 2005	

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Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial Number:

Filing Date:

Inventorship: Joseph C. Ballantyne, et al. Applicant: Microsoft Corporation

Attorney's Docket No. MFCP.111855

Microsoft No.: 303101.02

Title: SYSTEM AND METHOD FOR MEMORY MANAGEMENT

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignors:

Joseph C. Ballantyne 17336 NE 34th Street Redmond, WA 98052 Landy Wang 6708 142nd Court NE

Redmond, WA 98052

Assignee:

Microsoft Corporation One Microsoft Way Redmond, WA 98052

AGREEMENT

WHEREAS, ASSIGNORS (listed above) are the inventors of an invention entitled "SYSTEM AND METHOD FOR MEMORY MANAGEMENT," 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;

PATENT REEL: 015679 FRAME: 0573

Attorney Docket No. MFCP.111855 MS Docket No. 303101.02

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS 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 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 purpose of protecting title to said invention or letters patent therefor.

Date	÷	Meseph C. Ballantyne
Date		Landy Wang

Attorney Docket No. MFCP.111855 MS Docket No. 303101.02

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS 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 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 purpose of protecting title to said invention or letters patent therefor.

Date

9-16-04

Date

Joseph C. Ballantyne

Landy Wang

PATENT REEL: 015679 FRAME: 0575