Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:			NEW ASSIGNMENT				
NATURE OF CONVEYANCE:			ASSIGNMENT				
CONVEYING PARTY DATA							
N			lame	Execution Date			
Sumit Gulwani				10/07/2008			
Krishna Kumar Mehra				11/26/2008			
Trishul A. Chilimbi				12/19/2008			
RECEIVING PARTY DATA							
Name:	Microsoft Corporation						
Street Address:	One Microsoft Way						
City:	Redmond						
State/Country:	WASHINGTON						
Postal Code:	98052-6399						
PROPERTY NUMBERS Total: 1							
Property Type			Number		12247034		
		12247	7034				
CORRESPONDENCE DATA							
Fax Number: (509)323-8979					\$40.00		
Correspondence will b	Correspondence will be sent via US Mail when the fax attempt is unsuccessful.						
Phone:	Phone: (509) 324-9256						
Email: patricia@leehayes.com							
Correspondent Name: Lee & Hayes, PLLC Address Line 1: 601 W. Riverside Ave.							
Address Line 1: 601 W. Riverside Ave. Address Line 2: Suite 1400							
Address Line 2: Suite 1400 Address Line 4: Spokane, WASHINGTON 99201							
ATTORNEY DOCKET NUMBER:			MS1-3774US		Ĩ		
NAME OF SUBMITTER:			Pat Palmer				
Total Attachments: 3 source=GN4484#page1.tif PATENT							

500769777

I

PATENT REEL: 022190 FRAME: 0544

PATENT REEL: 022190 FRAME: 0545

PATENT ASSIGNMENT

MS Docket No.: <u>324131.01</u> (OC Docket No.: <u>MS1-3774US</u>

WE, Sumit Gulwani, Krishna Kumar Mehra and Trishul A Chilimbi, ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "Calculating Resource Bounds Of Programs Manipulating Recursive Data Structures And Collections" ("APPLICATION"), which:

- will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of Lee & Hayes, PLLC, 421 W. Riverside Avenue, Suite 500, Spokane, Washington 99201, who are associated with customer number 22801, to insert here in parenthesis (Application No. ____, filed __)^{0/07/2008} this APPLICATION's Application No. and filing date, when known;
- was filed on __ and was given Application No. __;
- is filed concurrently herewith;

Microsoft Corporation, a Washington Corporation, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

Dennis	7/10/2008	Sumit Gulwani
Inventor's Signature	Date	Printed Name in Native Language
		Krishna Kumar Mehra
Inventor's Signature	Date	Printed Name in Native Language
		Trishul A Chilimbi
Inventor's Signature	Date	Printed Name in Native Language

Page 1 of 1

PATENT REEL: 022190 FRAME: 0546

WE, Sumit Gulwani, Krishna Kumar Mehra and Trishul A Chilimbi, ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "Calculating Resource Bounds Of Programs Manipulating Recursive Data Structures And Collections" ("APPLICATION"), which:

> will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of Lee & Hayes, PLLC, 421 W. Riverside Avenue, Suite 500, Spokane, Washington 99201, who are associated with customer number 22801, to insert here in parenthesis (Application No. ____, filed ___) this APPLICATION's Application No. and filing date, when known;



is filed concurrently herewith;

Microsoft Corporation, a Washington Corporation, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

Inventor's Signature

Date

Printed Name in Native Language

KK · Dore

Inventor's Signature

Date

26-Nov-2008 Krishna Kumar Mehra Printed Name in Native Language

Trishul A Chilimbi

Sumit Gulwani

PATENT ASSIGNMENT

MS Docket No.: 324131.01 (OC Docket No.: MS1-3774US

WE, Sumit Gulwani, Krishna Kumar Mehra and Trishul A Chilimbi, ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "Calculating Resource Bounds Of Programs Manipulating Recursive Data Structures And Collections" ("APPLICATION"), which:

ill be filed without this executed PATENT ASSIGNMENT. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of Lee & Hayes, PLLC, 421 W. Riverside Avenue, Suite 500, Spokane, Washington 99201, who are associated with customer number 22801, to insert here in parenthesis (Application No. ____, filed ___) this APPLICATION's Application No. and filing date, when known;



was filed on ____ and was given Application No. ___;

is filed concurrently herewith;

Microsoft Corporation, a Washington Corporation, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

		Sumit Gulwani
Inventor's Signature	Date	Printed Name in Native Language
Inventor's Circuture		Krishna Kumar Mehra
Inventor's Signature	Date	Printed Name in Native Language
Achilumh	DEC 19th 2008	
Inventor's Signature	Date	Printed Name in Native Language