Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Shuvabrata Ganguly	05/05/2009
Jason S. Wohlgemuth	03/18/2009
Allen Marshall	03/18/2009

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	
Application Number:	12414424	

CORRESPONDENCE DATA

Fax Number: (617)646-8646

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 6176468212

Email: jdannunzio-ellis@wolfgreenfield.com

Correspondent Name: Edmund J. Walsh
Address Line 1: 600 Atlantic Avenue

Address Line 2: Wolf, Greenfield & Sacks, P.C.
Address Line 4: Boston, MASSACHUSETTS 02210

ATTORNEY DOCKET NUMBER: M1103.70589US00

NAME OF SUBMITTER: Edmund J. Walsh

Total Attachments: 4

source=M110370589US00-assign#page1.tif

PATENT REEL: 022660 FRAME: 0453 12414424

CH \$40,00

500855873

source=M110370589US00-assign#page2.tif source=M110370589US00-assign#page3.tif source=M110370589US00-assign#page4.tif

> PATENT REEL: 022660 FRAME: 0454

M\$ Docket No. 326112.01 (OC Docket No. M1103.70589US00)

	PATENT ASSIGNMENT			
WE, Shuvabrata Ganguly, Jason S. Wohlgemuth, and Allen Marshall ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "ENLIGHTENMENT FOR LOW OVERHEAD HARDWARE ACCESS" ("APPLICATION"), which:				
C	hereby authoriz Wolf, Greenfield who are associa parenthesis (Ap	es, and requests, & Sacks, P.C., 60 ted with custome plication No. <u>12</u> ,	PATENT ASSIGNMENT. ASSIGNOR ASSIGNEE'S legal representatives, of O Atlantic Avenue, Boston, MA 02210, r number 45840, to insert here in V414,424, filed March 30, 2009) Io. and filing date, when known;	
区	was filed on Ma 12/414,424;	rch 30, 2009, an	d was given Application No.	
	filed concurrent	ly herewith;		
successors arentire and ex (and all other applications, ("APPLICATIO For go acknowledge the ASSIGNEE	nd assigns ("ASSIG clusive rights, tit applications and in and for the Un N DERIVATIVES"); od and valuable of d by the ASSIGNO E, the entire and e	GNEE"), is entitled le and interest in patents derived litted States, its te consideration, the exclusive rights, t	to, and is desirous of acquiring, the the INVENTION and the APPLICATION therefrom, such as continuing rritories, and all foreign countries ereceipt of which is hereby hereby sells, assigns and transfers to litle 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).				
Syn	4	5/5/2009	Shuvabrata Ganguly	
Inventor's Sig	nature	Date	Printed Name in Native Language	
			Jason S. Wohlgemuth	
Inventor's Sig	ınature	Date	Printed Name in Native Language	

PATENT REEL: 022660 FRAME: 0455

TO:916176468646

P.2/2

MS Docket No. 326112.01 (OC Docket No. M1103.70589U\$00)

PATENT ASSIGNMENT

Allen Marshall
Inventor's Signature Date Printed Name in Native Language

REEL: 022660 FRAME: 0456

PATENT ASSIGNMENT

WE, Shuvabrata Ganguly, Jason S. Wohlgemuth, and Allen Marshall
("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in
a patent application entitled "ENLIGHTENMENT FOR LOW OVERHEAD HARDWARE
ACCESS" ("APPLICATION"), which:

Y	hereby authorizes, and requests, ASSIGNEE'S legal representatives, of Wolf, Greenfield & Sacks, P.C., 600 Atlantic Avenue, Boston, MA 02210, who are associated with customer number 45840, to insert here in				
	parenthesis (Application No. $\frac{12}{414,424}$, filed March 30, 2009) this APPLICATION's Application No. and filing date, when known;				
	was filed on and was given Application No. Not Yet Assigned;				
	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).

Bank		Shuvabrata Ganguly
Inventor's Signature	Date	Printed Name in Native Language
0 01111	2/2/	
Jason Vollgements 5	118/2009	Jason S. Wohlgemuth
Inventor's Signature	Date	Printed Name in Native Language

PATENT REEL: 022660 FRAME: 0457

MS Docket No. 326112.01 (OC Docket No. M1103.70589US00)

PATENT ASSIGNMENT

Allen Marshall

Inventor's Signature

Date

Printed Name in Native Language