Form PTO-1595 (Rev. 07/05) OMB No. 0651-9027 (6xp, 6/30/2005)	U.S. DÉPARTMENT OF COMMERCE United States Patent and Trademark Office	
RECORDATION FO	ORM COVER SHEET MS6 - 0126US	
To the Director of the U.S. Patent and Trademark Office: Plea	ase record the attached documents or the new address(es) below.	
1. Name of conveying party(les) Thomas Minka 08/01/2008 Thore KH Graepel 08/11/2008	Name and address of receiving party(ies) Name: Microsoft Corporation Internal Address:	
Raif Herbrich 08/11/2008 Additional name(s) of conveying party(les) attached? Yes V N 3. Nature of conveyance/Execution Date(s): Execution Date(s) Listed in Box 1 above.		
Assignment Merger Security Agreement Change of Name Joint Research Agreement	City: Redmond	i
Government Interest Assignment Executive Order 9424, Confirmatory License	State: WA Country: Zip:98052	: (1 * 0/4
Other 4. Application or patent number(s): A. Petent Application No.(s)	Additional name(s) & address(es) attached? Yes No. s document is being filed together with a new application. B. Patent No.(s)	ាន ្ទា ១០ មួយស្រ
12/278,387 filed 8/5/2008	ettached?	t ad
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents 2 and involved: 1	Trupped for well at
Name:Lee & Haves: PLLC	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card Authorized to be charged to deposit account	twi tri
Street Address: 421 W Riverside Ave Ste 500	Enclosed None required (government interest not affecting title)	
City: Spokane	8. Payment Information	
State: <u>WA</u> Zlp: <u>99201</u>	a. Credit Card Last 4 Numbers 1691 Expiration Date 05/11	
Phone Number: <u>509-324-9256</u> Fax Number: <u>509-323-8979</u> Email Address:	b. Deposit Account Number Authorized User Name	
9. Signature: Signature	8/12/1008 Date	1
	# 37351 Total number of pages including cover sheet, attachments, and documents:	

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

PATENT REEL: 021378 FRAME: 0248

Inventor's Signature

PATENT ASSIGNMENT

MS Docket No.: <u>316266.04</u> (OC Docket No.: <u>MS6-0126US</u>)

WE, Thomas Minka, Thore KH Graepel, and Ralf Herbrich, ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "Determining Relative Skills of Players" ("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. 12/276, 387 filed 8/5/2008) 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

Thomas Ments	Aug-st.1, 2008	Thomas Minka
Inventor's Signature	Date	Printed Name in Native Language
		Thore KH Graepel
Inventor's Signature	Date	Printed Name in Native Language
		Ralf Herbrich

and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

Date

PATENT

Printed Name in Native Language

REEL: 021378 FRAME: 0249

PATENT ASSIGNMENT

MS Docket No.: 316266.04 (OC Docket No.: MS6-0126US)

have invented subject matter application entitled "Determine will be filed hereby autilities & Haye Washington 22801, to i	r ("INVENTION") disc ning Relative Skills of diwithout this exect horizes, and reques es, PLLC, 421 W. Riv n 99201, who are a insert here in paren	pel, and Raif Herbrich, ("ASSIGNOR"), closed and/or claimed in a patent of Players" ("APPLICATION"), which: uted PATENT ASSIGNMENT. ASSIGNOR its, ASSIGNEE'S legal representatives, of erside Avenue, Suite 500, Spokane, ssociated with customer number ithesis (Application No,		
		s APPLICATION's Application No. and		
	when known;	• • • • • • • • • • • • • • • • • • •		
	n <u>August 5, 2008</u>	and was given		
Application No.				
is filed cor	ncurrently herewith	on Corporation, on behalf of itself and		
its successors and assigns ("entire and exclusive rights, to (and all other applications and applications, in and for the letter ("APPLICATION DERIVATIVES" For good and was acknowledged by the ASSIGNEE, the entire and the APPLICATION (and APPLICATION (and APPLICATION)) ASSIGNOR agree the making and prosecution	'ASSIGNEE"), is entititle and interest in and patents derived United States, its te (")): /aluable consideration, the ASSIGNOR dexclusive rights, the ASSIGNOR of the APPLICATION of th	the INVENTION and the APPLICATION therefrom, such as continuing rritories, and all foreign countries ion, the receipt of which is hereby hereby sells, assigns and transfers to itle and interest in the INVENTION and ES); istruments and documents required for N (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).				
and perfecting title to the A	FFEICHTION (MIN IN			
		Thomas Minka		
Inventor's Signature	Date	Printed Name in Native Language		
Run In 1	11/08/08	Thore KH Graepel		
Inventor's Signature	Date	Printed Name in Native Language		
	. /. / -			
7.00	11/3/2008	Ralf Herbrich		
Inventor's Signature	Date	Printed Name in Native Language		

Page 1 of 1

PATENT REEL: 021378 FRAME: 0250