Form PTO-1595 (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office
RECORDATION FORM COVER SHEET MS1 - 3288US PATENTS ONLY To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.	
Jacob R. Lorch 11/20/2006	Internal Address:
Jeffrey Anson Pang 11/10/2006 Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance/Execution Date(s):	Street Address: One Microsoft Way
Execution Date(s) Listed in Box 1 above.	
Assignment Merger Security Agreement Change of Name	City: Redmond
Joint Research Agreement	State: WA
Government Interest Assignment Executive Order 9424, Confirmatory License	Country:Zip: <u>98052</u>
Other	Additional name(s) & address(es) attached? Yes Vo
A. Patent Application No.(s) 11/559,338 filed 11/13/2006	document is being filed together with a new application. B. Patent No.(s) ttached? Yes No
5. Name and address to whom correspondence	6. Total number of applications and patents
concerning document should be mailed:	involved: 1
Name:Lee & Hayes, PLLC	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
Internal Address:	Authorized to be charged by credit card
	Authorized to be charged to deposit account
Street Address: 421 W Riverside Ave Ste 500	Enclosed
	None required (government interest not affecting title)
City: Spokane	8. Payment Information
State: WA Zip: 99201	a. Credit Card Last 4 Numbers Expiration Date
Phone Number: <u>509-324-9256</u>	b. Deposit Account Number 12-0769
Fax Number: <u>509-323-8979</u>	Authorized User Name
Email Address:	7.081011204 0001 110110
9. Signature:	<u>DeC. 5, 2006</u> Date
- Oignature	
Lewis C. Lee Reg.# Name of Person Signing	34656 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: 018587 FRAME: 0398 Recordation Form Cover Sheet Additional Pages

M\$1 - 3288US

Patent Application No

Patent No.

11/559,338

filed

11/13/2006

Name of Conveying Partics

Execution Date

Frank Christopher Uyeda

11/9/2006

PATENT REEL: 018587 FRAME: 0399

PATENT ASSIGNMENT

WE, John R. Douceur, Jacob R	. Lorch, Jeffrey Anson Pang, and Frank
Christopher Uveda. ("ASSIGNOR"), have inv	ented subject matter ("INVENTION")
disclosed and/or claimed in a patent appli-	cation entitled "Reducing Bandwidth
Requirements for Peer-to-Peer Gaming Arci	hitectures " ("APPLICATION"), which:
will be filed without this	executed PATENT ASSIGNMENT. ASSIGNOR
hereby authorizes, and f	equests, ASSIGNEE'S legal representatives, of
Lee & Haves, PLIC, 421 V	v. Riverside Avenue, Suite 500, Spokane,
Washington 00201 who	are accordated with customer number
22901 to insert here in	parenthesis (U.S. Serial No. 11/559_338_,
511-4 11 // 2/200 (c) this APPLICATION's U.S. Serial Number
and filing date, when kno	
was filed on and was gi	
is filed concurrently here	-witte,
Microsoft Corporation, a was	hington 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 intere	est in the INVENTION and the APPLICATION
(and all other applications and patents det	ived therefrom, such as continuing
applications, in and for the United States,	its territories, and all foreign countries
("APPLICATION DERIVATIVES"));	
	deration, the receipt of which is hereby
acknowledged by the ASSIGNOR, the ASSIG	GNOR hereby sells, assigns and transfers to
the ASSIGNEE, the entire and exclusive rigi	hts, title and interest in the INVENTION and
the APPLICATION (and APPLICATION DERIV	
ASSIGNOR agrees to execute	all instruments and documents required for
the making and prosecution of the APPLIC	ATION (and APPLICATION DERIVATIVES), for
litigation regarding letters patent derived	therefrom, and for the purpose of protecting
and perfecting title to the APPLICATION (a	nd APPLICATION DERIVATIVES).
NOVEMBER 10, 2006	Com Kin
DATE	John R. Dauceur
	1 1 C-1 - 1
10 Nov 2006	Jacob / Jorah
DATE	∕∕jacob R. Lorch
DATE	Jeffrey Anson Pang
DATE	Frank Christopher Uyeda

REEL: 018587 FRAME: 0400

P.04/05

MS Docket No. 318214.01 (OC Docket No. MS1-3288US)

PATENT ASSIGNMENT

WE, John R. Douceur, Jacob R. L	orch, Jeffrey Anson Pang, and Frank					
Christopher Uyeda, ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "Reducing Bandwidth						
				Requirements for Peer-to-Peer Gaming Archit	ectures " ("APPLICATION"), which:	
will be filed without this ex	RECUTED PATENT ASSIGNMENT. ASSIGNOR					
	uests, ASSIGNEE'S legal representatives, of					
	Riverside Avenue, Suite 500, Spokane,					
Washington 99201, who ar	re associated with customer number					
22801, to insert here in pa	renthesis (U.S. Serial No. 11/559, 338,					
, ,) this APPLICATION's U.S. Serial Number					
$\underline{\hspace{1cm}}$ and filing date, when know						
was filed on and was give	n U.S. Serial No. ;					
is filed concurrently herew						
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"));						
			•	ration, 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);
				l instruments and documents required for		
the making and prosecution of the APPLICAT						
litigation regarding letters patent derived the						
and perfecting title to the APPLICATION (and	APPLICATION DERIVATIVES).					
DATE	taka B. Passana					
DATE	John R. Douceur					
DATE	Jacob R. Lorch					
PO11						
11/10/2006	24-P					
DATE	Jeffrey Anson Pang					
	- · · · · · · · · · · · · · · · · · · ·					
DATE	Frank Christopher Uyeda					

Page 1 of 1

PATENT.	<u>ASSIGNMENT</u>
with John P. Douceur, Jacob F	R. Lorch, Jeffrey Anson Pang, and Frank
at the beautiful do ("ASSIGNOR") have inv	ented subject matter (INVENTION)
an a matent application a natent application is a patent application.	ication entitled kennema panaman.
	-hitectures (Arruica Holy), millon
下部 is a filed without this	E EXECUTED PATENT ADDICIONALITY CONTINUES
haraby authorizes, and i	requests, ASSIGNEE'S legal representatives, or
Les & Haves PLC. 421	W. Riverside Avenue, Suite 500, Spokane,
_	parenthesis (U.S. Serial No. 14559, 338),
22801, to insert here in) this APPLICATION's U.S. Serial Number
filed _1y_Loft	/ Lills /// Libertran
and filing date, when kr	riven U.S. Serial No. :
was filed on and was g	rewith:
is filed concurrently her Microsoft Corporation, a Wa	ishington Corporation, on behalf of itself and
its successors and assigns ("ASSIGNEE"), i	is entitled to, and is desirous of acquiring, the
antire and exclusive rights, title and inter	est in the INVENTION and the Arrelearion
Cand all other applications and patents de	erived therefrom, such as continuing
applications, in and for the United States.	, its territories, and all foreign countries
("APRILICATION DERIVATIVES")):	
For good and valuable cons	ideration, the receipt of which is hereby
acknowledged by the ASSIGNOR, the ASS	IGNOR hereby sells, assigns and transfers to
the ASSIGNEE, the entire and exclusive rig	ghts, title and interest in the INVENTION and
the APPLICATION (and APPLICATION DERI	IVATIVES);
ASSIGNOR agrees to execut	e all instruments and documents required for
the making and prosecution of the APPLI	CATION (and APPLICATION DERIVATIVES), for
ditigation regarding letters patent derived	therefrom, and for the purpose of protecting
and perfecting little to the APPLICATION (and APPLICATION DERIVATIVES).
	John R. Douceur
DATE	John K. Dodeca.
DATE	Jacob R. Lorch
	Inffrage August Dana
DATE	Jeffrey Anson Pang
11/9/06	Frank Nyeda
DATE	Frank Christopher Uyeda

Page 1 of 1

DATE