,		12-11-1998		
1 1 2 1 7/1 RE	CORDAT ::::::			ent of Commerce rademark Office
MRD 13/7/98 RE	1 188151		PA	TENT
TO: The Commissioner of Patents and	Trademark	100918816	cument(s	s) or copy(ies).
Submission Type	1	☐ Assignment		
│ ☑ New ☐ Resubmission (Non-Recordation)		License		
Document ID #		Merger		
Correction of PTO Error		Security Agree	ment	
Reel # Frame #		Change of Nam		
Corrective Document		Other:		
Reel # Frame #				
Conveying Party(ies)			Execution Date(s)
1. Chao-Chia Liu			November 12, 19	
2. Michael J. Hillberg			November 6, 199	
3. William P. Morel		November 25, 1998		
4. James W. Kelly		November 6, 1998		
5. Clifford P. Van Dyke		November 6, 1998		
6.				
Mark if Additional Names of Convey	ing Parties Attached]		
Receiving Party				
Name Microsoft Corporation	1			
Name Address One Microsoft Way				
Address One Microsoft Way Address				
Address <u>Redmond</u>	Washingto	un.	98052	
City	State/Cou		Zip Code	
Mark if Additional Names of Receivi			Zip Code	
Correspondent Name and Address				
	l			
Gary R. Jarosik, Reg. No. 35,906			Telephone: (312)	616-5600
Leydig, Voit & Mayer, Ltd.	'		Facsimile: (312) 6	
Two Prudential Plaza, Suite 4900	Attorney Docket No. 87464			
Chicago, Illinois 60601-6780				<u>. </u>
Pages Enter the total number of pages				
Application Number(s) or Patent Num] Mark if additional r	
Enter either the Patent Application Number of		O NOT ENTER BOTH nu		perty).
Patent Application Num	bers		Patent Numbers	T
09/157,880				
If the decree of the best of the control of the con	All a new Det et a		<u> </u>	Mandh Day V
If this document is being filed together w			aate the patent	Month Day Year
application was signed by the first name	ea executing invento	1.		L
Patent Cooperation Treaty (PCT) Enter PCT application number only if a	II C Application	PCT	DCT	TDCT
Number has not been assigned.	o.s. Application	101	PCT	PCT
		PCT	PCT	PCT
1996 JSHABAZZ 00000205 09157880		F ()	501	101
Mumber of Properties 40.00 0P		Enter the t	l otal number of prop	erties involved: 1
Fee Amount		Linter the t	otal number of prop	craes involved. I
1 00 Amount		Fee Amount for Pro	perties Listed (37.0	FR 3 41): \$40 00
Method of Payment:		. 50 / 11/10/11/10/11/10	portion Linton (or O	
Enclosed is a check in the amou	unt of \$40.00			
Charge Deposit Account No. 12				
Authorization to Charge Addition		Account No. 12-121	6: ⊠ Yes □ No)
Statement and Signature				
To the best of my knowledge and be	elief, the foregoing in	nformation is true an	d correct and any a	ttached copy is a
true copy of the original document.				
	M	1		
Gary R. Jarosik	1		December 4, 199	8
Name of Person Signing	Sign	ature	Date	

REEL: 009923 FRAME: 0258
REEL: 9623 FRAME: 0258

Leydig, Voit & Mayer, Ltd. Attorneys at Law Two Prudential Plaza Suite 4900 180 North Stetson Chicago, Illinois 60601-6780

ASSIGNMENT

WHEREAS, we, Donna Liu of 15720 SE 44th Place, Bellevue Washington, 98006, Michael J. Hillberg of 11911 NE 67th Place, Kirkland, Washington, 98033, William P. Morel of 23717 NE 61st Street, Redmond, Washington, 98053, James W. Kelly of 22119 NE 56th Street, Redmond, Washington, 98053 and Clifford P. Van Dyke of 12415 NE 36th Place, Bellevue, Washington, 98005 (hereinafter referred to as ASSIGNORS), are the joint inventors of an invention entitled "METHOD AND SYSTEM FOR MAINTAINING THE INTEGRITY OF LINKS IN A COMPUTER NETWORK" as described and claimed in the specification forming part of an application for United States letters patent which was filed on, September 21, 1998 under Serial No. 09/157,880;

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;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said 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

REEL: 009023 FRAME: 0259 REEL: 9623 FRAME: 0259

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 $11/12/1998$	Chair-thin In
	Chao-Chia Liu (aka Donna Liu)
STATE OF (Washington)	nby , 1998, before me, a Notary
) SS:	
COUNTY OF KMg	
On this $2^{\frac{1}{2}}$ day of $N_{\mathcal{O}^{2}}$	nber , 1998, before me, a Notary
. ache in ana for sala country, appeared both	na Bia, who is personally known to the to be the balli
person whose parae is subscribed to the for	egoing assignment document, and acknowledged that as his/her free and voluntary act for the uses and
purposes the comment	as ms/ner free and voluntary act for the uses and
A CO NOTABLE ST.	\mathcal{M}_{α}
-*-	thather I. Mulen
JOHA IS OF PUBLIC OF SERVICE OF S	Notary Public /
(SEAL) 7 CH 16. 10	Notary Public My Commission Expires: March 16, 2000
WASHINA	() () () ()
	977. 9E
Date 11-6-98	Michael J. Hillberg
1 1 / 4	Wilchael J. Milberg
STATE OF WA SS:	
) SS:	
COUNTY OF PONY	
On this Q day of UQQ	hael J. Hillberg, who is personally known to me to be
Public in and for said county, appeared Mic	hael J. Hillberg, who is personally known to me to be
	ibed to the foregoing assignment document, and
the uses and purposes therein set forth.	red the document as his/her free and voluntary act fo
the about and purposes therein set forth.	Melisa (ititual
	Melissa Whinon
CANAL CANAL COM	Notary Public
10 N	
POTARY 2	
TO THE PUBLIC PROPERTY OF THE PROPERTY OF THE PUBLIC PUBLIC PROPERTY OF THE PUBLIC PROPERTY OF THE PUBLIC PROPERTY OF THE PUBLIC PUBLIC PROPERTY OF THE PUBLIC PUBLIC PUBLIC PUBLIC PUB	

REEL: 9623 FRAME: 0260

Assignment US Patent Application 09/157,880 Page 3 of 4

Date 11/25/98	W.P. Morel.
-/-/-	William P. Morel
STATE OF	-)) SS:
On this day of _ Public in and for said county, appear same person whose name is subscrib	,, before me, a Notary red William P. Morel who is personally known to me to be the bed to the foregoing assignment document, and acknowledged e document as his/her free and voluntary act for the uses and
	Notary Public
Date 1/6/98	James W. Kelly
same person whose manie is subsern) SS: More more 1998 Before me, a Notary red James W. Kelly, who is personally known to me to be the bed to the foregoing assignment document, and acknowledged the document as his/her free and voluntary act for the uses and
purposes therein set forth. SA WHIT SOLOTION OF THE SET OF THE SE	Melisa Whatner

Date //- 4	6-98	Clifford P. Van Dyke
STATE OF	WA	
COUNTY OF	WA) SS:)
On this _ Public in and for the same person acknowledged that	day of said county, appearent whose name is	Movember, 1998, before me, a Notary ed Clifford P. Van Dyke, who is personally known to me to be subscribed to the foregoing assignment document, and delivered the document as his/her free and voluntary act for
NOT/ RY	The contract of the contract o	Melisse Whitings