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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Kristin Lauter	01/05/2010
Peter Montgomery	12/31/2009
Michael Naehrig	12/30/2009

RECEIVING PARTY DATA

Name:	dicrosoft Corporation	
Street Address:	one Microsoft Way	
City:	Redmond	
State/Country:	WASHINGTON	
Postal Code:	98052	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	12686707	

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ATTORNEY DOCKET NUMBER:	327983.01
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NAME OF SUBMITTER: Garyma Saksena

Total Attachments: 4

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PATENT REEL: 023829 FRAME: 0458 12686/0/

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PATENT REEL: 023829 FRAME: 0459

I/WE, Kristin Lauter, Peter Montgomery and Michael Naehrig ("ASSIGNOR"), have Invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "DETERMINATION OF PAIRINGS ON A CURVE USING AGGREGATED INVERSIONS" ("APPLICATION"), which: will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of the Law and Corporate Affairs Department, Microsoft Corporation, One Microsoft Way, Redmond, Washington 98052, who are associated with customer number 69316, to insert here in parenthesis (Application No, filed) this APPLICATION's Application No. and filling date, when known; was filed on, output on the patent 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 Open Application of 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		
hereby authorizes, and requests, ASSIGNEE'S legal representatives, of the Law and Corporate Affairs Department, Microsoft Corporation, One Microsoft Way, Redmond, Washington 98052, who are associated with customer number 69316, to Insert here in parenthesis (Application No, filed) this APPLICATION's Application No. and filing date, when known; was filed on ind 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	I/WE, Kristin Lauter, Peter Montgomery and Michael Naehrig ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "DETERMINATION OF PAIRINGS ON A CURVE USING AGGREGATED INVERSIONS"	2 1
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	hereby authorizes, and requests, ASSIGNEE'S legal representatives, of the Law and Corporate Affairs Department, Microsoft Corporation, One Microsoft Way, Redmond, Washington 98052, who are associated with customer number 69316, 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;	f 2 1
litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).	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	

Page 1 of 2

Date

Inventor's Signature

Printed Name in English

Kristin Lauter

Printed Name in Native Language (if

other than English)

PATENT ASSIGNMENT

Inventor's Signature

Peter Montgomery
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Printed Name in Native Language (if other than English)

Inventor's Signature

Michael Naehrig

Date

Printed Name in Native Language (if

other than English)

Printed Name in English

MS Docket No.: 327983.01

	PATENT ASSIGNMENT	MS Docket No.: <u>327983.01</u>
invented subject	istin Lauter, Peter Montgomery and Michael ct matter ("INVENTION") disclosed and/or cla RMINATION OF PAIRINGS ON A CURVE USING "), which:	imed in a patent application
	will be filed without this executed PATENT hereby authorizes, and requests, ASSIGNED the Law and Corporate Affairs Department, Microsoft Way, Redmond, Washington 9805 customer number 69316, to insert here in page 15. The corporate Application of the concurrently herewith;	E'S legal representatives, of Microsoft Corporation, One 52, who are associated with parenthesis (Application No. TION's Application No. and
successors and entire and excle (and all other applications, in "APPLICATION For good acknowledged the ASSIGNEE, the APPLICATION"	ft Corporation, a Washington Corporation, d assigns ("ASSIGNEE"), is entitled to, and is lusive rights, title and interest in the INVEN r applications and patents derived there n and for the United States, its territories DERIVATIVES")); and valuable consideration, the receipt the ASSIGNOR, the ASSIGNOR hereby selected the entire and exclusive rights, title and interpolation (and APPLICATION DERIVATIVES);	s desirous of acquiring, the ITION and the APPLICATION from, such as continuing, and all foreign countries eipt of which is hereby lls, assigns and transfers to erest in the INVENTION and
making and p litigation regard	OR agrees to execute all instruments and consecution of the APPLICATION (and APPL) ding letters patent derived therefrom, and for title to the APPLICATION (and APPLICATION)	ICATION DERIVATIVES), for or the purpose of protecting

Page 1 of 2

Date

Inventor's Signature

Printed Name in English

Kristin Lauter

Printed Name in Native Language (if

other than English)

PATENT ASSIGNMENT

MS Docket No.: <u>327983.01</u>

Inventor's Signature	Date
Peter Montgomery	
Printed Name in English	Printed Name in Native Language (If other than English)

Millad Meding Inventor's Signature

12-30-2009

Date

Michael Naehrig

Printed Name in English

Printed Name in Native Language (if

other than English)