

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Qi Liu</td> <td>12/24/2008</td> </tr> <tr> <td>Ruihua Song</td> <td>12/24/2008</td> </tr> <tr> <td>Jiang-Ming Yang</td> <td>12/24/2008</td> </tr> </tbody> </table>		Name	Execution Date	Qi Liu	12/24/2008	Ruihua Song	12/24/2008	Jiang-Ming Yang	12/24/2008
Name	Execution Date								
Qi Liu	12/24/2008								
Ruihua Song	12/24/2008								
Jiang-Ming Yang	12/24/2008								
RECEIVING PARTY DATA									
Name:	Microsoft Corporation								
Street Address:	One Microsoft Way								
City:	Redmond								
State/Country:	WASHINGTON								
Postal Code:	98052-6399								
PROPERTY NUMBERS Total: 1									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12345645</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12345645				
Property Type	Number								
Application Number:	12345645								
CORRESPONDENCE DATA									
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Address Line 4:	Spokane, WASHINGTON 99201								
ATTORNEY DOCKET NUMBER:	MS1-3824US								
NAME OF SUBMITTER:	Karen Doty								

Total Attachments: 3
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PATENT ASSIGNMENT

MS Docket No.: 324716.01
(OC Docket No.: MS1-3824US)

I/WE, Qi Liu, Ruihua Song, Jiangming Yang, ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "Ranking Oriented Query Clustering and Applications" ("APPLICATION"), which:

- will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of Lee & Hayes, PLLC, 601 W. Riverside Avenue, Suite 1400, Spokane, Washington 99201, who are associated with customer number 22801, to insert here in parenthesis (Application No. 12/345,645, filed 12/29/08) 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 and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

/Qi Liu/	12-24-2008	Qi Liu
Inventor's Signature	Date	Printed Name in Native Language

		Ruihua Song
Inventor's Signature	Date	Printed Name in Native Language

		Jiangming Yang
Inventor's Signature	Date	Printed Name in Native Language

PATENT ASSIGNMENT

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Qi Liu

Inventor's Signature	Date	Printed Name in Native Language
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Ruihua Song

/Ruihua Song/	12/24/2008	Ruihua Song
Inventor's Signature	Date	Printed Name in Native Language

Jiangming Yang

Inventor's Signature	Date	Printed Name in Native Language
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