

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Tie-Yan Liu</td><td>06/12/2007</td></tr><tr><td>Bin Gao</td><td>06/12/2007</td></tr><tr><td>Wei-Ying Ma</td><td>06/12/2007</td></tr></tbody></table>	Name	Execution Date	Tie-Yan Liu	06/12/2007	Bin Gao	06/12/2007	Wei-Ying Ma	06/12/2007	
Name	Execution Date								
Tie-Yan Liu	06/12/2007								
Bin Gao	06/12/2007								
Wei-Ying Ma	06/12/2007								
RECEIVING PARTY DATA									
Name:	Microsoft Corporation								
Street Address:	One Microsoft Way								
City:	Redmond								
State/Country:	WASHINGTON								
Postal Code:	98052								
PROPERTY NUMBERS Total: 1									
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11743942</td></tr></tbody></table>	Property Type	Number	Application Number:	11743942					
Property Type	Number								
Application Number:	11743942								
CORRESPONDENCE DATA									
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NAME OF SUBMITTER:	Maurice J. Pirio								
Total Attachments: 1 source=11743942 Assignment#page1.tif									

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PATENT ASSIGNMENT

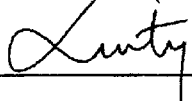
I/WE, Tie-Yan Liu, residing at Beijing, China, with a post office address of c/o Microsoft Corporation, One Microsoft Way, Redmond, Washington 98052, Bin Gao, residing at Beijing, China, with a post office address of c/o Microsoft Corporation, One Microsoft Way, Redmond, Washington 98052 and Wei-Ying Ma, residing at Beijing, China, with a post office address of c/o Microsoft Corporation, One Microsoft Way, Redmond, Washington 98052 ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SPECTRAL CLUSTERING USING SEQUENTIAL MATRIX COMPRESSION" ("APPLICATION"), which:

- ☐ will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, Perkins Coie LLP, P.O. Box 1247, Seattle, WA 98111-1247, who are associated with customer number 45979, to insert here in parenthesis (U.S. Serial No.: _____, filed _____) this APPLICATION's U.S. Serial Number and filing date, when known;
- ☒ was filed on May 3, 2007 and was given U.S. Serial No. 11/743,942;
- ☐ 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).



Tie-Yan Liu

12-June-2007

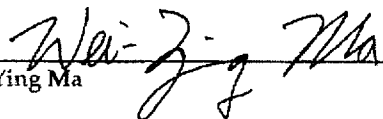
Date

Bin Gao

Bin Gao

12-June-2007

Date



Wei-Ying Ma

12-June-2007

Date