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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

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

Property Type	Number
Application Number:	12345645

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	MS1-3824US
NAME OF SUBMITTER:	Karen Doty

Total Attachments: 3 source=G95230#page1.tif

PATENT REEL: 022187 FRAME: 0686

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> PATENT REEL: 022187 FRAME: 0687

MS Docket No.: <u>324716.01</u> (OC Docket No.: <u>MS1-3824US)</u>

Inventor's Signature	Date	Printed Name in Native Language
		Jiangming Yang
Inventor's Signature	Date	Printed Name in Native Language
		Ruihua Song
Inventor's Signature	Date	Printed Name in Native Language
/Qi Liu/	12-24-2008	Qi Liu
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	•	associated with customer number
•	•	ests, ASSIGNEE'S legal representatives, of verside Avenue, Suite 1400, Spokane,
		cuted PATENT ASSIGNMENT. ASSIGNOR
hearet.		itions" ("APPLICATION"), which:
subject matter ("INVENTIO	N") disclosed and/or	claimed in a patent application entitled
I/WE, Qi Liu,	Ruihua Song, Jiangm	ning Yang, ("ASSIGNOR"), have invented

PATENT REEL: 022187 FRAME: 0688

MS Docket No.: <u>324716.01</u> (OC Docket No.: <u>MS1-3824US)</u>

Inventor's Signature	Date	Printed Name in Native Language
		Jiangming Yang
Inventor's Signature	Date	Printed Name in Native Language
/Ruihua Song/	12/24/2008	Ruihua Song
Inventor's Signature	Date	Printed Name in Native Language
		Qi Liu
and perfecting title to the	APPLICATION (and AP	PLICATION DERIVATIVES).
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	_	N (and APPLICATION DERIVATIVES), for
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		sts, ASSIGNEE'S legal representatives, of
		uted PATENT ASSIGNMENT. ASSIGNOR
-		claimed in a patent application entitled ions" ("APPLICATION"), which:
		ng Yang, ("ASSIGNOR"), have invented

of 1 PATENT REEL: 022187 FRAME: 0689

MS Docket No.: <u>324716.01</u> (OC Docket No.: <u>MS1-3824US)</u>

subject matter ("INVE" "Ranking Oriented Qu will here Lee Was 228	NTION") disclosed and ery Clustering and App be filed without this eeby authorizes, and red & Hayes, PLLC, 601 W. Shington 99201, who a	gming Yang, ("ASSIGNOR"), have invented for claimed in a patent application entitled lications" ("APPLICATION"), which: xecuted PATENT ASSIGNMENT. ASSIGNOR quests, ASSIGNEE'S legal representatives, of Riverside Avenue, Suite 1400, Spokane, re associated with customer number arenthesis (Application No. 12/345,645,
	a <u>12729708</u>) this APPL en known;	ICATION's Application No. and filing date,
was	,	d was given Application No; vith;
its successors and as	signs ("ASSIGNEE"), is e	ington Corporation, on behalf of itself and entitled to, and is desirous of acquiring, the tin the INVENTION and the APPLICATION
(and all other applica	tions and patents deriv	red therefrom, such as continuing
• •		s territories, and all foreign countries
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the ASSIGNEE, the en	•	IOR hereby sells, assigns and transfers to s, title and interest in the INVENTION and
		II instruments and documents required for
	_	TION (and APPLICATION DERIVATIVES), for
· ·		erefrom, and for the purpose of protecting
and perfecting title to	the APPLICATION (and	d APPLICATION DERIVATIVES).
		Qi Liu
Inventor's Signature	Date	Printed Name in Native Language
		Ruihua Song
Inventor's Signature	Date	Printed Name in Native Language
_/Jiang-Ming Yang/	2008.12.24	Jiangming Yang
Inventor's Signature	Date	Printed Name in Native Language

Page 1 of 1 PATENT
RECORDED: 02/02/2009 REEL: 022187 FRAME: 0690