502092315 10/12/2012

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
Rina Panigrahy	10/04/2012	
Mikhail Kapralov	10/08/2012	

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:	13650145

CORRESPONDENCE DATA

Fax Number: 4259367329

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 425-707-9382

Email: vffiling@microsoft.com

Correspondent Name: Assal Meftahi
Address Line 1: One Microsoft Way

Address Line 2: Patent Group Docketing Dept
Address Line 4: Redmond, WASHINGTON 98052

ATTORNEY DOCKET NUMBER:	336856.01
NAME OF SUBMITTER:	Mohammad Adil

Total Attachments: 4

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PATENT REEL: 029116 FRAME: 0620 CH \$40.00 1365

PATENT ASSIGNMENT

MS Docket No.: <u>336856.01</u>

	subject matter ("INVENTION") disclosed and/or claimed in a patent
application	entitled "GENERATING A SPARSIFIER USING GRAPH SPANNERS"
("APPLICATIO	N"), which:
\boxtimes	will be filed. ASSIGNOR hereby authorizes, and requests,
	ASSIGNEE'S legal representatives, of the Law and Corporate Affairs
	Department, Microsoft Corporation, One Microsoft Way, Redmond,
	Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert
	here in parentheses (filed on and given
	Application No by the following Office
	US Patent and Trademark Office) this APPLICATION's
	Application No., filing date, and Office, when known;
	Application No., filling date, and office, when known,
	was filed on and was given Application No
	by the following Office
	<u> </u>
	,
Micros	soft Corporation, a Washington Corporation, on behalf of itself and its
successors a	and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the

I Rina Panigrahy ("ASSIGNOR") am the original inventor or an original joint

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"));

ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known;

Application No.	Filing Date	Office

PATENT ASSIGNMENT	MS Docket No.:	<u>336856.01</u>
		•••••

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, ASSIGNOR's 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).

<u>I</u>	10/4/2012
Inventor's Signature	Date
Rina Panigrahy	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT MS Docket No.: 336856.01

I <u>Mikl</u>	nail Kapralov ("AS	SIGNOR") am the original	I inventor or an original joint
inventor of	subject matter	("INVENTION") disclosed	and/or claimed in a patent
application	entitled "GENEF	RATING A SPARSIFIER	USING GRAPH SPANNERS"
("APPLICATIO	N"), which:		
\boxtimes	will be filed.	ASSIGNOR hereby auth	norizes, and requests,
	ASSIGNEE'S legal	representatives, of the La	w and Corporate Affairs
	Department, Micr	osoft Corporation, One M	licrosoft Way, Redmond,
	Washington 9805	2 (ASSIGNEE'S LEGAL REPE	RESENTATIVES), to insert
	here in parenth	eses (filed on12-OC	^{T-2012} and given
	Application No.	13/650145 by	the following Office
	US Patent and Trade	mark Office t	his APPLICATION's
	Application No., f	iling date, and Office, whe	n known;
	was filed on	and was given	Application No
		by the following Office	
	64	n,	
Micros	oft Corporation,	a Washington Corporatio	n, on behalf of itself and its
successors a	nd assigns ("ASSI	CNEE"), is entitled to, and	d is desirous of acquiring, the
entire and ex	xclusive rights, tit	le and interest in the INV	ENTION and the APPLICATION
(and all oth	ner applications	and patents derived the	erefrom, such as continuing
applications,	in and for the l	Jnited States, its territor	ies, and all foreign countries
("APPLICATIO	N DERIVATIVES"));		
ASSIG	NOR hereby	authorizes, and req	uests, ASSIGNEE'S LEGAL
REPRESENTA	TIVES to insert t	he Application No., filin	g date, and Office into the
following tab	le for any APPLICA	TION DERIVATIVES after the	hey are known;
Application N	lo.	Filing Date	Office

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MS Docket No.: <u>336856.01</u>

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, ASSIGNOR's 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).

Inventor's Signature

Mikhail Kapralov

Printed Name in English

Date/

Printed Name in Native Language

(if other than English)

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