502222695 02/06/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Frank R. Morrison III	02/05/2013
Alexander Burba	01/31/2013
Brandon Hunt	01/31/2013
John Justice	01/31/2013
Krassimir Karamfilov	02/01/2013

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13761047

CORRESPONDENCE DATA

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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: 337441.01

NAME OF SUBMITTER: Mohammad Adil

PATENT

REEL: 029768 FRAME: 0456

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Total Attachments: 10 source=337441-01-Executed-Assignment#page1.tif source=337441-01-Executed-Assignment#page2.tif source=337441-01-Executed-Assignment#page3.tif source=337441-01-Executed-Assignment#page4.tif source=337441-01-Executed-Assignment#page5.tif source=337441-01-Executed-Assignment#page6.tif source=337441-01-Executed-Assignment#page7.tif source=337441-01-Executed-Assignment#page8.tif source=337441-01-Executed-Assignment#page9.tif source=337441-01-Executed-Assignment#page9.tif

PATENT REEL: 029768 FRAME: 0457

MS Docket No.: 337441.01

inventor of	subject matter (*		ginal inventor or an original joint d and/or claimed in a patent ") which:
			uthorizes, and requests,
K771		*	Law and Corporate Affairs
			Microsoft Way, Redmond,
		•	EPRESENTATIVES), to insert
		eses (filed on06-I	
	Application No	13/761047	by the following
		tent and Trademark Office) this APPLICATION's
		ling date, and Office, w	
	was filed on	and was giv	en Application
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			requests, ASSIGNEE'S LEGAL
			iling date, and Office into the
*************			er they are known;
Application I	No.	Hiing Date	Office

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Page 1 of 2

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);

MS Docket No.: 337441.01

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).

Sand James (Sand	2/5/13
(Inventor's Signature	Date
Frank R. Morrison III	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGN	٧N	AEN I	Ī
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·	PATENT.	ASSIGNMENT	MS Docket No.: <u>337441.01</u>
inventor of application e	subject matter (intitled " <u>DYNAMIC (</u> will be filed. ASSIGNEE'S legal	"INVENTION") disclosed <u>BUFFER</u> " ("APPLICATION"), ASSIGNOR hereby auth representatives, of the Law	orizes, and requests,
	Washington 9805 here in parenth Application No Office US Pa	2 (ASSIGNEE'S LEGAL REPR eses (filed on 06-FEE 13/761047 otent and Trademark Office	tesentatives), to insert 3-2013 and given by the following) this APPLICATION's
	Application No., 1	lling date, and Office, whe	n known;
		and was given by the following Office	
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			g date, and Office into the
following tal	ole for any APPLICA	TION DERIVATIVES after the	ney are known;
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REMPESEUR

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MS Docket No.: 337441.01

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Inventor's Signature

Alexander Burba
Printed Name in English

Aлександр Бурба
Printed Name in Native Language
(if other than English)

	PATENT	ASSIGNMENT	MS Docket No.: <u>337441.01</u>
inventor of application e	subject matter on titled "DYNAMIC" will be filed. ASSIGNEE'S legal Department, Micr Washington 9805 here in parenth Application No OfficeUS Parenthem of the parenthem of	"INVENTION") disclosed <u>BUFFER</u> " ("APPLICATION"), ASSIGNOR hereby auth representatives, of the La osoft Corporation, One M 2 (ASSIGNEE'S LEGAL REPI eses (filed on	norizes, and requests, w and Corporate Affairs licrosoft Way, Redmond, RESENTATIVES), to insert 3-2013 and given by the following) this APPLICATION's
		and was given by the following Offic	
successors a entire and ex (and all oth applications,	nd assigns ("ASSIO cclusive rights, tit er applications	ONEE"), is entitled to, and le and interest in the INV and patents derived the	on, on behalf of itself and its dis desirous of acquiring, the /ENTION and the APPLICATION erefrom, such as continuing ies, and all foreign countries
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Application N		Filing Date	Office

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Page 1 of 2

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MS Docket No.: 337441.01

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	1/31/13
Inventor's Signature	Date
Brandon Hunt	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT MS Docket No.: 337441.01

l <u>John</u>	<u>Justice</u> ("ASSIGNOI	R") am the original invento	or or an original joint invento
-			med in a patent application
entitled " <u>DYN</u>	<u>AMIC BUFFER</u> " ("AF	PPLICATION"), which:	
	will be filed.	ASSIGNOR hereby auth	orizes, and requests,
	ASSIGNEE'S legal 1	representatives, of the Lav	v and Corporate Affairs
	Department, Micro	osoft Corporation, One Mi	crosoft Way, Redmond,
	Washington 9805	2 (ASSIGNEE'S LEGAL REPR	ESENTATIVES), to insert
	here in parenth	eses (filed on <u>06-FEB-20</u>	and given
	Application No	1 3/761047	by the following
	OfficeUS Pate	nt and Trademark Office) this APPLICATION's
	Application No., fi	ling date, and Office, whe	n known;
	was filed on	and was given .	Application
	No	by the following Office	2
	•	- ·	n, on behalf of itself and its
	-		is desirous of acquiring, the
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(APPLICATIO	N DERIVATIVES"));		
ASSIGN	IOR hereby	authorizes, and requ	uests, ASSIGNEE'S LEGAI
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MS Docket No.: <u>337441.01</u>

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Inventor's Signature John Justice	1/31/2013 Date
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT MS Docket No.: 337441.01

l Kras:	simir Karamfilov (".	ASSIGNOR") am the origin	al inventor or an original join
		-	and/or claimed in a patent
	<u>-</u>	BUFFER" ("APPLICATION"),	·
		ASSIGNOR hereby auth	
	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 Pa	itent and Trademark Office) this APPLICATION's
	Application No., fi	ling date, and Office, whe	n known;
	was filed on and was given Application		
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successors a entire and ea (and all oth applications,	nd assigns ("ASSIC xclusive rights, titl ner applications a	GNEE"), is entitled to, and le and interest in the INV and patents derived the	n, on behalf of itself and itself and itself is desirous of acquiring, the ENTION and the APPLICATION erefrom, such as continuingies, and all foreign countries
ASSIG	NOR hereby	authorizes, and requ	uests, ASSIGNEE'S LEGAL
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Inventor s Signatule

Krassimir Karamfilov

Printed Name in English

MS Docket No.: <u>337441.01</u>

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Printed Name in Native Language (if other than English)

Page 2 of 2