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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Lenin Ravindranath Sivalingam	04/15/2013
Paramvir Bahl	07/25/2013
ABM Musa	04/11/2013
David Chu	07/01/2013

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:	13926778

CORRESPONDENCE DATA

Fax Number: 4259367329

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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:	338010.02

NAME OF SUBMITTER: Amandeep Kaur

Signature: /Amandeep Kaur/

REEL: 031169 FRAME: 0338

<u>PATENT</u>

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Date:	09/10/2013
Total Attachments: 8 source=338010-02-Exec-Assignment#page source=338010-02-Exec-Assignment#page source=338010-02-Exec-Assignment#page source=338010-02-Exec-Assignment#page source=338010-02-Exec-Assignment#page source=338010-02-Exec-Assignment#page source=338010-02-Exec-Assignment#page source=338010-02-Exec-Assignment#page	2.tif 3.tif 4.tif 5.tif 6.tif 7.tif

PATENT REEL: 031169 FRAME: 0339

	ect matter ("INVENTION")	, am the original inventor or an disclosed and/or claimed in a ation" ("APPLICATION"), which:
Department, Mico Washington 9805 here in parenthes Application No Office	ASSIGNOR hereby authorepresentatives, of the Larosoft Corporation, One Mose (ASSIGNEE'S LEGAL REPOses (filed on	aw and Corporate Affairs Microsoft Way, Redmond, RESENTATIVES), to insert and given by the following) this APPLICATION's
	<u>h 15, 2013</u> and was given by the follow ffice";	
	GNEE"), is entitled to, and le and interest in the INV and patents derived the United States, its territor	erefrom, such as continuing
ASSIGNOR hereby REPRESENTATIVES to insert t following table for any APPLICA	he Application No., filin	_
Application No.	Filing Date	Office Office
13/926,778	June 25, 2013	U.S. Patent and Trademark Office
10/020,770		0.0. Faterit and Trademark Office

Page 1 of 2

MS Docket No.: <u>338010.01</u>

MS Docket No.: <u>338010.01</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).

Deni Rani	04/15/2013
Inventor's Signature	Date
Lenin Ravindranath Sivalingam	
Printed Name in English	Printed Name in Native Language (if other than English)

I, Paramvir Bahl ("ASSI inventor of subject matter (application entitled "Application	"INVENTION") disclosed	·
Department, Microwashington 9805 here in parenthes Application NoOffice	ASSIGNOR hereby auth representatives, of the Lavosoft Corporation, One Mi (ASSIGNEE'S LEGAL REPRES (filed on	w and Corporate Affairs icrosoft Way, Redmond, ESENTATIVES), to insert and given by the following) this APPLICATION's
	h 15, 2013 and was given by the followiffice";	
Microsoft Corporation, a successors and assigns ("ASSIC entire and exclusive rights, titl (and all other applications a applications, in and for the U ("APPLICATION DERIVATIVES"));	GNEE"), is entitled to, and le and interest in the INV and patents derived the	ENTION and the APPLICATION erefrom, such as continuing
,	authorizes, and requ	,
REPRESENTATIVES to insert the following table for any APPLICA	• •	
Application No.	Filing Date	Office
13/926,778	June 25, 2013	U.S. Patent and Trademark Office

Page 1 of 2

MS Docket No.: <u>338010.01</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).

Parami Roll	
	July 25, 2013
Inventor's Signature	Date
Paramvir Bahl	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: **338010.01**

PATENT ASSIGNME

Office";

	PATENT ASSIGNMENT	MS Docket No.:	<u>338010.01</u>
matter ("INVE	I Musa ("ASSIGNOR"), am the original in NTION") disclosed and/or claimed in a p ("APPLICATION"), which:		
	will be filed. ASSIGNOR hereby authorize	es, and requests, ASSIG	NEE'S legal
	representatives, of the Law and Corp Corporation, One Microsoft Way, Redmo LEGAL REPRESENTATIVES), to insert	nd, Washington 98052 (A here in parentheses (file	ASSIGNEE'S
	and given Application No.	***************************************	by the
•	following Office		PLICATION's
	Application No., filing date, and Office, wh	en known;	
×	was filed on March 15, 2013 and was give	n Application No	
	61/802,357 by the following	ng Office " <u>U.S. Patent an</u> d	d Trademark

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
13/926,778	June 25, 2013	U.S. Patent and Trademark Of

Page 1 of 2

MS Docket No.: 338010.01

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> </u>	04/11/2013
Inventor's Signature	Date
ABM Musa	े विद्य सूमा
Printed Name in English	Printed Name in Native Language (if other than English)

I, David Chu ("ASSIGNOI of subject matter ("INVENTIOI		or or an original joint inventor imed in a patent application
entitled "Application-Centric Sc		• • • • • • • • • • • • • • • • • • • •
ASSIGNEE'S legal of Department, Micro Washington 9805 here in parenthes Application No	ASSIGNOR hereby auth representatives, of the Lav osoft Corporation, One Mi 2 (ASSIGNEE'S LEGAL REPR es (filed on	w and Corporate Affairs icrosoft Way, Redmond, ESENTATIVES), to insert and given by the following) this APPLICATION's
	h 15, 2013 and was given by the followi ffice";	
Microsoft Corporation, a successors and assigns ("ASSIC entire and exclusive rights, title (and all other applications a applications, in and for the U ("APPLICATION DERIVATIVES"));	GNEE"), is entitled to, and le and interest in the INV and patents derived the	ENTION and the APPLICATION erefrom, such as continuing
REPRESENTATIVES to insert the		g date, and Office into the
following table for any APPLICA Application No.	Filing Date	Office
13/926,778	June 25, 2013	U.S. Patent and Trademark Office
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Page 1 of 2

MS Docket No.: <u>338010.01</u>

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for good and valuable consideration, the recept of which is hereby asknowledged by the ASSCNOR, the ASSCNOR hereby sells, assigns and transfers to the ASSICNEE, ASSICNOR'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).

	7-1-2013
Inventor's Signature	Date
David Chu	
Printed Name in English	Printed Name in Native Language (if other than English)

Page 2 of 2

PATENT REEL: 031169 FRAME: 0347

RECORDED: 09/10/2013