# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Eric St. John	05/03/2013
Mohammad Rahim Bhojani	05/03/2013
Alok Shriram	05/02/2013
David Kean	05/07/2013
Divya Swarnkar	05/07/2013
Kumar Gaurav Khanna	05/03/2013
Gaye Oncul Kok	05/01/2013
Jan Kotas	05/03/2013
Michael Rayhelson	05/05/2013
Michael Rousos	05/02/2013
Weitao Su	05/06/2013
Matthew Charles Cohn	05/03/2013
Zhanliang Chen	05/03/2013

#### **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:	13889469

## **CORRESPONDENCE DATA**

**Fax Number**: 4259367329

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

Phone: 425-707-9382

PATENT REEL: 030379 FRAME: 0525 CH \$40.00 138894

502340621 REEL: 0

Email: vffiling@microsoft.com Correspondent Name: Assal Meftahi Address Line 1: One Microsoft Way Patent Group Docketing Dept Address Line 2: Address Line 4: Redmond, WASHINGTON 98052 338758.01 ATTORNEY DOCKET NUMBER: NAME OF SUBMITTER: Shah Faisal Khan Signature: /Shah Faisal Khan/ Date: 05/09/2013 Total Attachments: 26 source=338758-01-Executed-Assignment#page1.tif source=338758-01-Executed-Assignment#page2.tif source=338758-01-Executed-Assignment#page3.tif source=338758-01-Executed-Assignment#page4.tif source=338758-01-Executed-Assignment#page5.tif source=338758-01-Executed-Assignment#page6.tif source=338758-01-Executed-Assignment#page7.tif source=338758-01-Executed-Assignment#page8.tif source=338758-01-Executed-Assignment#page9.tif source=338758-01-Executed-Assignment#page10.tif source=338758-01-Executed-Assignment#page11.tif source=338758-01-Executed-Assignment#page12.tif source=338758-01-Executed-Assignment#page13.tif source=338758-01-Executed-Assignment#page14.tif source=338758-01-Executed-Assignment#page15.tif source=338758-01-Executed-Assignment#page16.tif source=338758-01-Executed-Assignment#page17.tif source=338758-01-Executed-Assignment#page18.tif source=338758-01-Executed-Assignment#page19.tif source=338758-01-Executed-Assignment#page20.tif source=338758-01-Executed-Assignment#page21.tif source=338758-01-Executed-Assignment#page22.tif source=338758-01-Executed-Assignment#page23.tif source=338758-01-Executed-Assignment#page24.tif source=338758-01-Executed-Assignment#page25.tif

source=338758-01-Executed-Assignment#page26.tif

PATENT REEL: 030379 FRAME: 0526

MS Docket No.: 338758.01 I Eric St. John ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application "OUT-OF-BAND FRAMEWORK LIBRARIES WITHIN APPLICATIONS" ("APPLICATION"), which: 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 08-MAY-2013 here in parentheses (filed on and given 13/889469 Application No. the following by US Patent and Trademark Office Office ) this APPLICATION's Application No., filing date, and Office, when known; was filed on \_\_\_\_\_ and was given Application No \_\_\_\_\_ by the following Office 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

Page	1	of	2
Iage		O.	_

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);

Inventor's Signature	5/3/2013 Date
Eric St. John Printed Name in English	Printed Name in Native Language
· · · · · · · · · · · · · · · · · · ·	(if other than English)

MS Docket No.: <u>338758.01</u> I Mohammad Rahim Bhojani ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "OUT-OF-BAND FRAMEWORK LIBRARIES WITHIN APPLICATIONS" ("APPLICATION"), which: 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 08-MAY-2013 here in parentheses (filed on and given 13/889469 Application No. bν the following US Patent and Trademark Office Office ) this APPLICATION's

was filed on	and was given Application
No	by the following Office
u	$n_*$

Application No., filing date, and Office, when known:

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

Filing Date	Office	
The state of the s		
		***************************************
- 447		
***		

MS Docket No.: <u>338758.01</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);

Jant	05/03/2013
Inventor's Signature	Date
MONAMMAD RAGIN BHOJANI	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Alok Shriram</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "<u>OUT-OF-BAND FRAMEWORK LIBRARIES WITHIN APPLICATIONS</u>" ("APPLICATION"), which:

| Will be filed. ASSIGNOR hereby authorizes, and requests,

MS Docket No.: 338758.01

	•	,	• •
ASSIGNEE'S legal repre	sentatives, of t	he Law and Corp	orate Affairs
Department, Microsoft	Corporation, C	ne Microsoft Wa	y, Redmond,
Washington 98052 (AS			
here in parentheses		08-MAY-2013	and given
Application No.	13/889469		following
Office US Patent and Tra	ndemark Office	) this AP	PLICATION's
Application No., filing	date, and Office	e, when known;	
was filed on	and was	given Application	1
No b	y the following	Office	
<i>u</i>	"·		

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

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);

Inventor's Signature	May 2nd 2013 Date
Alok Shriram	
Printed Name in English	Printed Name in Native Language
	(if other than English)

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);

David Kean	05/07/2013			
Inventor's Signature	Date			
David Kean Printed Name in English	Printed Name in Native Language (if other than English)			

I <u>Divya Swarnkar</u> ("ASSI inventor of subject matter ('application entitled " <u>OUT-OF-</u> ("APPLICATION"), which:	"INVENTION") disclosed	•
ASSIGNEE'S legal in Department, Micro Washington 9805. here in parenthe Application No OfficeUS Patent a	ASSIGNOR hereby authorepresentatives, of the Lavosoft Corporation, One Mi (2 (ASSIGNEE'S LEGAL REPR eses (filed on 13/889469 and Trademark Office)	w and Corporate Affairs icrosoft Way, Redmond, ESENTATIVES), to insert Y-2013 and given by the following this APPLICATION's
No	and was given a by the following Office ";	
Microsoft Corporation, a successors and assigns ("ASSIC entire and exclusive rights, titl (and all other applications a applications, in and for the L ("APPLICATION DERIVATIVES"));	GNEE"), is entitled to, and le and interest in the INVI and patents derived the	ENTION and the APPLICATION refrom, such as continuing
ASSIGNOR hereby a REPRESENTATIVES to insert the following table for any APPLICA	ne Application No., filing	<del></del>
Application No.	Filing Date	Office

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);

Inventor's Signature	May 07 2013 Date
<u>Divya Swarnkar</u>	Printed Name in Native Language
Printed Name in English	(if other than English)

I <u>Kumar Gaurav Khanna</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "<u>OUT-OF-BAND FRAMEWORK LIBRARIES WITHIN APPLICATIONS</u>" ("APPLICATION"), which:

MS Docket No.: <u>338758.01</u>

$\boxtimes$	will	be	filed.	ASSI	GNOR	hereby	autho	rizes,	and	req	uests,
	ASSI	GNE	E'S lega	ıl repre	sentati <sup>,</sup>	ves, of t	he Law	and C	Corpo	rate <i>i</i>	Affairs
	Department, Microsoft Corporation, One Microsoft Way, Redmon						mond,				
	Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to ins						insert				
	here	in	paren		•	on	08-MAY-	2013		and	given
	Appl	licati	on		13/88		_ b	y t	he	foll	lowing
	Office US Patent and Trademark Office			ffice	) this APPLICATION'				ΓΙΟΝ's		
	Appl	licati	on No.,	filing	date, ai	nd Office	e, when	know	n;		
	was	filed	on			and was	given A	.pplica	tion		
	No by the following Office										
	"										

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

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);

Marian	05/03/2013				
Inventor's Signature	Date				
Kumar Gaurav Khanna					
Printed Name in English	Printed Name in Native Language				
	(if other than English)				

I <u>Gaye Oncul Kok</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled " <u>OUT-OF-BAND FRAMEWORK LIBRARIES WITHIN APPLICATIONS</u> " ("APPLICATION"), which:						
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						
was filed on and was given Application  No by the following Office  "";						
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						

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);

Inventor's Signature  GAYE ONCUL KOK	
Printed Name in English	Printed Name in Native Language (if other than English)

I Jan Kotas ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "OUT-OF-BAND FRAMEWORK LIBRARIES WITHIN APPLICATIONS" ("APPLICATION"), which:

MS Docket No.: <u>338758.01</u>

$\times$	will	be	filed.	ASSI	GNOR	hereby	autho	rizes,	and	req	uests,
	ASSI	GNEI	E'S legal	repre	sentati	ves, of t	he Law	and C	Corpor	ate A	Affairs
	Depa	artm	ent, Mic	rosoft	Corpo	ration, C	ne Mic	rosoft	Way,	Redr	mond,
		_				'S LEGAL					
	here	in	parent	heses	(filed	on	08-MAY	-2013		and	given
	Appl	icati				889469	_	y t	he	foll	owing
	Offic	:e _	US Pate	nt and Tra	demark (	Office	)	this	APPL	.ICAT	TON's
	Appl	icati	on No.,	filing (	date, ai	nd Office	, when	know	n;		
	was	filed	on			ınd was	given A	pplica	tion		
	No_			b	y the fo	ollowing	Office				
	"										

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

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);

Jem VII.aus	05/03/2013			
Inventor's Signature	Date			
Jan Kotas				
Printed Name in English	Printed Name in Native Language			
	(if other than English)			

PATENT ASSIGNMENT MS Docket No.: 33875	10.86
--	-------

I <u>Michael Rayhelson</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "<u>OUT-OF-BAND FRAMEWORK LIBRARIES WITHIN APPLICATIONS</u>" ("APPLICATION"), which:

$\boxtimes$	will	be	filed.	ASSI	GNOR	hereby	authorizes	, and	req	uests,
	ASSI	GNE	E'S legal	repres	sentati	ves, of th	ne Law and	Corpo	rate /	Affairs
	Department, Microsoft Corporation, One Microsoft Way, Redmond,								mond,	
	Wash	ningt	on 9805	2 (ASS	SIGNEE	'S LEGAL	REPRESENT	ATIVES	i), to	insert
	here	in	parenth	eses	(filed	on	08-MAY-2013		and	given
	Appl	icati	on No	ο.	13/	889469	_ by	the	foll	owing
	Offic	e _	US Patent	and Tra	ademark	Office	) this	APPI	LICA	ΓΙΟΝ's
	Application No., filing date, and Office, when known;									
	was	filed	on		a	ınd was g	given Applic	ation		
	No by the following Office									
	"						* * * * *	4 3 3	4.1	5

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

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.: <u>338758.01</u>

Mr-	5/5/13		
Inventor's Signature	Date		
MICHAEL RAYHELSON			
Printed Name in English	Printed Name in Native Language		
	(if other than English)		

I Michael Rousos ("ASSIGNOR") am the original inventor or an original joint

inventor of subject matter ("INVENTION") disclosed and/or claimed in application entitled "OUT-OF-BAND FRAMEWORK LIBRARIES WITHIN APPLI ("APPLICATION"), which:	
will be filed. ASSIGNOR hereby authorizes, and request ASSIGNEE'S legal representatives, of the Law and Corporate Affa Department, Microsoft Corporation, One Microsoft Way, Redmo Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to Institute in parentheses (filed on and given Application No	iirs nd, ert ven ing
was filed on and was given Application	
No by the following Office "";	
Microsoft Corporation, a Washington Corporation, on behalf of itse successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquentire and exclusive rights, title and interest in the INVENTION and the APP (and all other applications and patents derived therefrom, such as applications, in and for the United States, its territories, and all foreign ("APPLICATION DERIVATIVES"));	iring, the LICATION ontinuing
ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S	
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	
Appreciation to.	

Page 1 of 2

MS Docket No.: 338758.01

MS Docket No.: 338758.01

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);

M222	5/2/2013
Inventor's Signature	Date
Michael J. Rouses	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: <u>338758.01</u>

I <u>Weitao S</u>	<u>u</u> ("ASSIGNOR")	am the orig	ginal inve	ntor or an origina	l joint inventor of
subject matter ("	INVENTION") d	isclosed and	d/or <mark>clai</mark> m	ned in a patent a <sub>l</sub>	oplication entitled
OUT-OF-BAND	FRAMEWORK	LIBRARIES	WITHIN	<b>APPLICATIONS</b> "	("APPLICATION"),
which:					

$\boxtimes$	will	be	filed.	ASSI	GNOR	hereby	authoriz	es, ar	nd red	quests,
	ASSI	GNE	E'S lega	l repre	sentati	ves, of th	ne Law an	d Corp	orate	Affairs
	Department, Microsoft Corporation, One Microsoft Way, Redmon							mond,		
	Wasl	hingt	ton 980	52 (AS	SIGNEE	'S LEGAL	REPRESEN	VITATIV	ES), to	insert
	here	in	parent	theses	(filed	on	08-MAY-2	013	and	given
	Appl						_ by	the	fol	lowing
	Offic	ce US Patent and Trademark Office ) this						nis AF	PLICA	TION's
	Application No., filing date, and Office, when known;									
	was	filed	on		a	nd was g	given Appl	ication	)	
	No_	*****		b	y the fo	ollowing	Office			
	"					,				

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	

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);

	05/06/2013
Inventor's Signature	Date
WEITAO SU	苏·卫 <u>涛</u>
Printed Name in English	Printed Name in Native Language (if other than English)

I <u>Matthew Charles Cohr</u> joint inventor of subject matte application entitled " <b>OUT-OF-</b> ("APPLICATION"), which:	er ("INVENTION") disclosed	•
ASSIGNEE'S legal of Department, Microwashington 9805, here in parenth Application No OfficeUS Paten	ASSIGNOR hereby auth representatives, of the Lavosoft Corporation, One Mi 2 (ASSIGNEE'S LEGAL REPReses (filed on	v and Corporate Affairs crosoft Way, Redmond, ESENTATIVES), to insert  AY-2013 and given by the following ) this APPLICATION's
No	and was given . by the following Office ";	
Microsoft Corporation, a successors and assigns ("ASSIC entire and exclusive rights, titl (and all other applications a applications, in and for the L ("APPLICATION DERIVATIVES"));	GNEE"), is entitled to, and le and interest in the INV and patents derived the	ENTION and the APPLICATION refrom, such as continuing
ASSIGNOR hereby REPRESENTATIVES to insert the following table for any APPLICA	ne Application No., filin	<del></del>
Application No.	Filing Date	Office

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);

Motherm	05/03/2013
Inventor's Signature	Date
Matthew Charles Cohn	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Zhanliang Chen</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled " <u>OUT-OF-BAND FRAMEWORK LIBRARIES WITHIN APPLICATIONS</u> " ("APPLICATION"), which:		
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		
was filed on and was given Application  No by the following Office  "";		
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

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).

3/3/20

Inventor's Signature

ZHANLIANG CHEN 际展亮

Printed Name in English

RECORDED: 05/09/2013

Printed Name in Native Language (if other than English)

MS Docket No.: 338758.01

Page 2 of 2