#### PATENT ASSIGNMENT

### Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Lihua Zhu	09/09/2013
Sridhar Sankuratri	09/09/2013
B. Anil Kumar	09/06/2013
Yongjun Wu	09/06/2013
Sandeep Kanumuri	09/06/2013
Shyam Sadhwani	09/06/2013
Gary J. Sullivan	09/06/2013

#### **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:	14027013

#### **CORRESPONDENCE DATA**

502495637

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Address Line 2: ONE WORLD TRADE CENTER PORTLAND, OREGON 97204 Address Line 4:

3382-89959-03 ATTORNEY DOCKET NUMBER:

**PATENT** REEL: 031206 FRAME: 0541

NAME OF SUBMITTER:	Kyle B. Rinehart	
Signature:	/Kyle B. Rinehart/	
Date:	09/13/2013	
Total Attachments: 14		
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PATENT REEL: 031206 FRAME: 0542

# PATENT ASSIGNMENT

		, am the original inventor disclosed and/or claimed	or an original joint inventor
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FURMAIS (API	PLICATION"), whi	Cn:	
	legal representa Street, Suite 160 customer numbe insert here in pa No. 14/027,013 b	tives, of Klarquist Sparkm 10, Portland, OR 97204, w er 26119, (ASSIGNEE'S LEC trentheses (filed on <u>9/13/2</u> by the United States Patent	ho are associated with
		and was given App s Patent and Trademark O	olication No by ffice;
successors and entire and exclu (and all other a	assigns ("ASSIGN isive rights, title oplications and p and for the Unite		desirous of acquiring, the FION and the APPLICATION such as continuing
_		zes, and requests, ASSIGN ng date, and Office into th	IEE'S LEGAL REPRESENTATIVES ne following table for any
APPLICATION D	ERIVATIVES after	they are known;	
Application No	3	Filing Date	Office
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the ASSIGNEE, ASSIGNOR'S entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

Lasta	09/09/2015	
Inventor's Signature	Date	
Lihua Zhu		
Printed Name in English	Printed Name in Native Language (if	
	other than English)	

# PATENT ASSIGNMENT

	kuratri ("ASSIGNOR"), am the natter ("INVENTION") disclos	•	-
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24WAFING LOKWY12	" ("APPLICATION"), which:		
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	filed on and was Jnited States Patent and Tra		by
successors and assig entire and exclusive (and all other applica	poration, a Washington Corg ins ("ASSIGNEE"), is entitled rights, title and interest in t ations and patents derived t for the United States, its ter VATIVES"));	to, and is desirous of acqu the INVENTION and the APF cherefrom, such as continui	iring, the PLICATION ng
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Application No.	Filing Date	Office	
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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

Sridhar Sankuratri

Printed Name in English

Printed Name in Native Language (if other than English)

#### PATENT ASSIGNMENT

I, B. Anil Kumar ("ASSIGNO inventor of subject matter ("INVI application entitled "FRAME PAC SAMPLING FORMATS" ("APPLICA"	KING AND UNPACKING HIC	claimed in a patent
legal representa Street, Suite 160 customer numbe insert here in pa No. <u>14/027,013</u> b	tives, of Klarquist Sparkma 00, Portland, OR 97204, wh er 26119, (ASSIGNEE'S LEG rentheses (filed on <u>9/13/2</u>	no are associated with AL REPRESENTATIVES) to 2013, and given Application and Trademark Office) this
	and was given App s Patent and Trademark Ol	
Microsoft Corporation, a successors and assigns ("ASSIGN entire and exclusive rights, title (and all other applications and papplications, in and for the Unite ("APPLICATION DERIVATIVES"));	and interest in the INVENT atents derived therefrom,	desirous of acquiring, the TON and the APPLICATION such as continuing
ASSIGNOR hereby authori to insert the Application No., fili APPLICATION DERIVATIVES after	ng date, and Office into th	EE'S LEGAL REPRESENTATIVES e following table for any
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);

3	9/6/2013
Inventor's Signature	Date
B. Anil Kumar	
Printed Name in English	Printed Name in Native Language (if other than English)

#### PATENT ASSIGNMENT

I, Yongjun Wu ("ASSIGNOF inventor of subject matter ("INVE application entitled "FRAME PAC SAMPLING FORMATS" ("APPLICAT	KING AND UNPACKING HIC	claimed in a patent
legal representa Street, Suite 160 customer numbe insert here in pa No. <u>14/027,013</u> b	tives, of Klarquist Sparkma 10, Portland, OR 97204, wher 26119, (ASSIGNEE'S LEG rentheses (filed on <u>9/13/2</u> by the United States Patent	no are associated with
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Microsoft Corporation, a Nature of Successors and assigns ("ASSIGN entire and exclusive rights, title (and all other applications and papplications, in and for the Unite ("APPLICATION DERIVATIVES"));	and interest in the INVENT atents derived therefrom,	desirous of acquiring, the TON and the APPLICATION such as continuing
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Application No.	Filing Date	Office

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# **PATENT ASSIGNMENT**

inventor of subject matte	r ("INVENTION") disclosed a ME PACKING AND UNPACKI	riginal inventor or an original joir and/or claimed in a patent ING HIGHER-RESOLUTION CHROM	
legal repr Street, Su customer insert her No. <u>14/02</u>	resentatives, of Klarquist S ite 1600, Portland, OR 972 number 26119, (ASSIGNE) re in parentheses (filed on 7.013 by the United States	norizes, and requests, ASSIGNEE'S parkman, LLP, 121 SW Salmon 204, who are associated with E'S LEGAL REPRESENTATIVES) to 9/13/2013, and given Application Patent and Trademark Office) this g date, and Office, when known;	
	on and was giv d States Patent and Traden	ren Application No by mark Office;	
successors and assigns (" entire and exclusive right (and all other applications	ASSIGNEE"), is entitled to, s, title and interest in the list and patents derived there the United States, its territo	ation, on behalf of itself and its and is desirous of acquiring, the INVENTION and the APPLICATION efrom, such as continuing ries, and all foreign countries	
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the ASSIGNEE, ASSIGNOR'S entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

K. Sawey	Ø7   Φ ω   2Φ13	
Inventor's Signature	Date	
Sandeep Kanumuri	సంజేజ్ కునుంచునాంది	
Printed Name in English	Printed Name in Native Language (if	
	other than English)	

# PATENT ASSIGNMENT

I, Shyam	ı Sadhwani ("ASS	IGNOR"), am the origi	inal inventor or an original j	joint
inventor of sub	ject matter ("IN\	VENTION") disclosed a	and/or claimed in a patent	
application ent	itled "FRAME PA	CKING AND UNPACKI	NG HIGHER-RESOLUTION CI	HROMA
SAMPLING FOR	MATS" ("APPLICA	ATION"), which:		
	legal represent Street, Suite 16 customer numb insert here in p No. <u>14/027,013</u>	atives, of Klarquist Sp 600, Portland, OR 972 per 26119, (ASSIGNEE arentheses (filed on _ by the United States F	orizes, and requests, ASSIG parkman, LLP, 121 SW Salmo 04, who are associated with 'S LEGAL REPRESENTATIVES 9/13/2013, and given Applic Patent and Trademark Offic I date, and Office, when kn	on h ) to cation e) this
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successors and entire and exclu (and all other a applications, in ("APPLICATION	assigns ("ASSIGI usive rights, title oplications and p and for the Unit DERIVATIVES"));	NEE"), is entitled to, a and interest in the IN patents derived theref ted States, its territori	tion, on behalf of itself and nd is desirous of acquiring, IVENTION and the APPLICATION, such as continuing es, and all foreign countries	, the TION s
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Page 1 of 2

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

Date

Shyam Sadhwani

Printed Name in English

Printed Name in Native Language (if

other than English)

# PATENT ASSIGNMENT

inventor of subject	t matter ("INVENTION	N") disclosed and/ $d$	ventor or an original joi or claimed in a patent	
	ed "FRAME PACKING A NTS" ("APPLICATION"),		IIGHER-RESOLUTION CH	HROMA
⊠ w le St cu in No	ill be filed. ASSIGNOF gal representatives, o reet, Suite 1600, Port istomer number 2611 sert here in parenthe p. <u>14/027,013</u> by the U	R hereby authorize of Klarquist Sparkr Lland, OR 97204, v 19, (ASSIGNEE'S LE ses (filed on <u>9/13</u> United States Pater	es, and requests, ASSIGNAN, LLP, 121 SW Salmon, LLP, 121 SW Salmon, who are associated with GAL REPRESENTATIVES (2013), and given Application and Trademark Office, when known and Offi	on 1 ) to cation e) this
	as filed on e United States Paten		oplication No Office;	_ by
successors and as entire and exclusiv (and all other appl	signs ("ASSIGNEE"), is ve rights, title and int ications and patents of d for the United State	entitled to, and is erest in the INVEN derived therefrom	on behalf of itself and desirous of acquiring, ITION and the APPLICAT , such as continuing and all foreign countries	the TION
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Application No.	Filing	Date	Office	
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the ASSIGNEE, ASSIGNOR'S entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

Inventor's Signature	<u>6 Sept. 2013</u> Date
Gary J. Sullivan	
Printed Name in English	Printed Name in Native Language (if
	other than English)