

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
CONVEYING PARTY DATA																	
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Lihua Zhu</td> <td>09/09/2013</td> </tr> <tr> <td>Sridhar Sankuratri</td> <td>09/09/2013</td> </tr> <tr> <td>B. Anil Kumar</td> <td>09/06/2013</td> </tr> <tr> <td>Yongjun Wu</td> <td>09/06/2013</td> </tr> <tr> <td>Sandeep Kanumuri</td> <td>09/06/2013</td> </tr> <tr> <td>Shyam Sadhwani</td> <td>09/06/2013</td> </tr> <tr> <td>Gary J. Sullivan</td> <td>09/06/2013</td> </tr> </tbody> </table>		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
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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																	
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14027013</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14027013												
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Application Number:	14027013																
CORRESPONDENCE DATA																	
Fax Number:	5035955301																
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																	
Phone:	503-595-5300																
Email:	iris.rasanen@klarquist.com																
Correspondent Name:	KYLE B. RINEHART, KLARQUIST SPARKMAN LLP																
Address Line 1:	121 S.W. SALMON STREET, SUITE 1600																
Address Line 2:	ONE WORLD TRADE CENTER																
Address Line 4:	PORTLAND, OREGON 97204																
ATTORNEY DOCKET NUMBER:	3382-89959-03																

CH \$40.00 14027013

NAME OF SUBMITTER:	Kyle B. Rinehart
Signature:	/Kyle B. Rinehart/
Date:	09/13/2013
Total Attachments: 14 source=3382-89959-03 - Assignment#page1.tif source=3382-89959-03 - Assignment#page2.tif source=3382-89959-03 - Assignment#page3.tif source=3382-89959-03 - Assignment#page4.tif source=3382-89959-03 - Assignment#page5.tif source=3382-89959-03 - Assignment#page6.tif source=3382-89959-03 - Assignment#page7.tif source=3382-89959-03 - Assignment#page8.tif source=3382-89959-03 - Assignment#page9.tif source=3382-89959-03 - Assignment#page10.tif source=3382-89959-03 - Assignment#page11.tif source=3382-89959-03 - Assignment#page12.tif source=3382-89959-03 - Assignment#page13.tif source=3382-89959-03 - Assignment#page14.tif	

PATENT ASSIGNMENT

I, Lihua Zhu ("ASSIGNOR"), am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "FRAME PACKING AND UNPACKING HIGHER-RESOLUTION CHROMA SAMPLING FORMATS" ("APPLICATION"), which:

will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of Klarquist Sparkman, LLP, 121 SW Salmon Street, Suite 1600, Portland, OR 97204, who are associated with customer number 26119, (ASSIGNEE'S LEGAL REPRESENTATIVES) to insert here in parentheses (filed on 9/13/2013, and given Application No. 14/027,013 by the United States Patent and Trademark Office) this APPLICATION's Application No. filing date, and Office, when known;

was filed on _____ and was given Application No. _____ by the United States Patent and Trademark 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"));


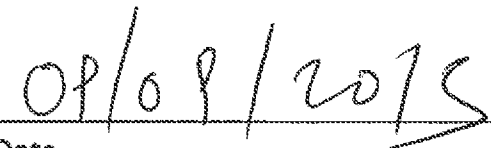
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For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to

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	 _____ Date
<u>Lihua Zhu</u> _____ Printed Name in English	_____ Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

I, Sridhar Sankuratri ("ASSIGNOR"), am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "FRAME PACKING AND UNPACKING HIGHER-RESOLUTION CHROMA SAMPLING FORMATS" ("APPLICATION"), which:

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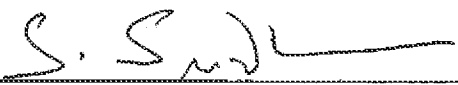
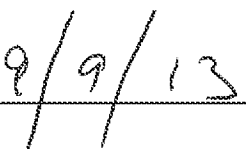
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 _____ Inventor's Signature	 _____ Date
<u>Sridhar Sankuratri</u> Printed Name in English	_____ Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

I, B. Anil Kumar ("ASSIGNOR"), am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "FRAME PACKING AND UNPACKING HIGHER-RESOLUTION CHROMA SAMPLING FORMATS" ("APPLICATION"), which:

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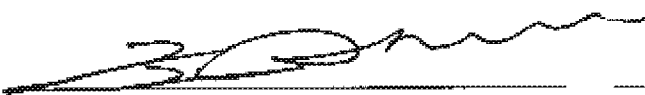
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MS Docket No.: 337483.02
(OC Docket No. 3382-89959-03)

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

PATENT ASSIGNMENT

I, Yongjun Wu ("ASSIGNOR"), am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "FRAME PACKING AND UNPACKING HIGHER-RESOLUTION CHROMA SAMPLING FORMATS" ("APPLICATION"), which:

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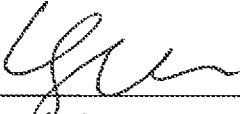
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 _____ Inventor's Signature	09/08/2013 _____ Date
Yongjun Wu _____ Printed Name in English	吴勇军 _____ Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

I, Sandeep Kanumuri ("ASSIGNOR"), am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "FRAME PACKING AND UNPACKING HIGHER-RESOLUTION CHROMA SAMPLING FORMATS" ("APPLICATION"), which:

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 _____ Inventor's Signature	<u>07/06/2013</u> _____ Date
Sandeep Kanumuri _____ Printed Name in English	<u>సంజీవ్ కనుమరి</u> _____ Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

I, Shyam Sadhwani ("ASSIGNOR"), am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "FRAME PACKING AND UNPACKING HIGHER-RESOLUTION CHROMA SAMPLING FORMATS" ("APPLICATION"), which:

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	9/6/2013
Inventor's Signature	Date
Shyam Sadhwani	श्याम साध्वानी
Printed Name in English	Printed Name in Native Language (if other than English)

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I, Gary J. Sullivan ("ASSIGNOR"), am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "FRAME PACKING AND UNPACKING HIGHER-RESOLUTION CHROMA SAMPLING FORMATS" ("APPLICATION"), which:

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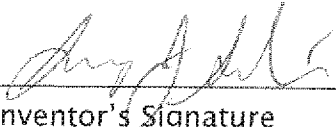
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 _____ Inventor's Signature	<u>6 Sept. 2013</u> _____ Date
<u>Gary J. Sullivan</u> _____ Printed Name in English	_____ Printed Name in Native Language (if other than English)