PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JESSE D. KAPLAN	01/09/2012
SHAWN FARKAS	01/06/2012
RAJA KRISHNASWAMY	01/11/2012
RICHARD M. BYERS	01/09/2012
RYAN A. BYINGTON	01/06/2012

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:	14481323

CORRESPONDENCE DATA

Fax Number: (801)328-1707

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 801-533-9800

Email: cthompson@wnlaw.com

Correspondent Name: WORKMAN NYDEGGER/MICROSOFT

Address Line 1: 60 EAST SOUTH TEMPLE

Address Line 2: SUITE 1000

Address Line 4: SALT LAKE CITY, UTAH 84111

ATTORNEY DOCKET NUMBER:	13768.2096.1.1
NAME OF SUBMITTER:	GREGORY R. LUNT
SIGNATURE:	/GREGORY R. LUNT/
DATE SIGNED:	09/09/2014

Total Attachments: 6

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PATENT REEL: 033701 FRAME: 0633

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PATENT REEL: 033701 FRAME: 0634

MS Docket No.: <u>334322.02</u> WN Docket No.; 13768.2096.1

I/WE, Jesse D. Kaplan, Shawn Farkas, Raja Krishnaswamy, Richard M. Byers and Ryan A. Byington ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "EFFICIENTLY PROVIDING MULTIPLE METADATA REPRESENTATIONS OF THE SAME TYPE" ("APPLICATION"), which:

X	will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR
	hereby authorizes, and requests, ASSIGNEE'S legal representatives, of
	the Law and Corporate Affairs Department, Microsoft Corporation, One
	Microsoft Way, Redmond, Washington 98052, who are associated with
	customer number <u>47973</u> , to insert here in parenthesis (Application
	No. <u>13/350604</u> , filed <u>January 13, 2012</u>) this APPLICATION's
	Application No. and filing date, when known;
	was filed on;
	is filed concurrently herewith;

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"));

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, the 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).

MS Docket No.: <u>334322.02</u> WN Docket No. ; <u>13768.2096.1</u>

inventor's Signature

Jesse D. Kaplan

Date

Printed Name in Native Language (if

other than English)

MS Docket No.: <u>334322.02</u> WN Docket No. ; <u>13768.2096.1</u>

Shin Like	1/6/2012
Inventor's Signature	Date
Shawn Farkas	Printed Name in Native Language (if other than English)

MS Docket No.: <u>334322.02</u> WN Docket No.: <u>13768.2096.1</u>

Inventor's Signature	01/11/2012 Date
Raja Krishnaswamy	Printed Name in Native Language (if other than English)

MS Docket No.: <u>334322.02</u>

WN Docket No. ; 13768.2096.1

Inventor's Signature	Jan 9 2012 Date
Richard M. Byers	Printed Name in Native Language (if other than English)

MS Docket No.: <u>334322.02</u>

WN Docket No.: 13768.2096.1

Ryan A. Byington

Printed Name in Native Language (if other than English)

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