

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4345959

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ADAM G. POULOS	02/28/2014
ARTHUR TOMLIN	03/04/2014
TONY AMBRUS	03/18/2014
JEFFREY COLE	03/15/2014
IAN DOUGLAS MCINTYRE	03/03/2014
DREW STEEDLY	03/03/2014
FREDERIK SCHAFFALITZKY	04/30/2014
GEORG KLEIN	03/11/2014
KATHLEEN P. MULCAHY	03/11/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MICROSOFT CORPORATION
<b>Street Address:</b>	ONE MICROSOFT WAY
<b>City:</b>	REDMOND
<b>State/Country:</b>	WASHINGTON
<b>Postal Code:</b>	98052
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15474687
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(425)936-7329
<i>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.</i>	
<b>Phone:</b>	425-707-9382
<b>Email:</b>	usdocket@microsoft.com
<b>Correspondent Name:</b>	MICROSOFT CORPORATION
<b>Address Line 1:</b>	ONE MICROSOFT WAY
<b>Address Line 4:</b>	REDMOND, WASHINGTON 98052
<b>ATTORNEY DOCKET NUMBER:</b>	340626-US-CNT;WHG13321CON
<b>NAME OF SUBMITTER:</b>	CATHERINE POLANCE

<b>SIGNATURE:</b>	/Catherine Polance/
<b>DATE SIGNED:</b>	03/30/2017
<b>Total Attachments: 18</b>	
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I Adam G. Poulos (“ASSIGNOR”) am the original inventor or an original joint inventor of subject matter (“INVENTION”) disclosed and/or claimed in a patent application entitled “DETERMINING COORDINATE FRAMES IN A DYNAMIC ENVIRONMENT” (“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 May 1, 2014 and given Application No. 14/267,755 by the following 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, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries (“APPLICATION DERIVATIVES”));


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Application No.	Filing Date	Office
15/474,687	March 30, 2017	USPTO

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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, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("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).

 <hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/> <p>Inventor's Signature</p>	<p style="text-align: center;">2/28/2014</p> <hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/> <p>Date</p>
<p>Adam G. Poulos</p> <hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/> <p>Printed Name in English</p>	<hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/> <p>Printed Name in Native Language (if other than English)</p>

I Arthur Tomlin ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "DETERMINING COORDINATE FRAMES IN A DYNAMIC ENVIRONMENT" ("APPLICATION"), which:

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	3/4/2014
<hr style="width: 80%; margin: 0 auto;"/> Inventor's Signature	<hr style="width: 80%; margin: 0 auto;"/> Date
<hr style="width: 80%; margin: 0 auto;"/> Arthur Tomlin Printed Name in English	<hr style="width: 80%; margin: 0 auto;"/> Printed Name in Native Language (if other than English)

I Tony Ambrus (“ASSIGNOR”) am the original inventor or an original joint inventor of subject matter (“INVENTION”) disclosed and/or claimed in a patent application entitled “DETERMINING COORDINATE FRAMES IN A DYNAMIC ENVIRONMENT” (“APPLICATION”), which:

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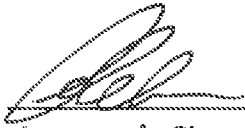
ASSIGNOR hereby authorizes, and requests, ASSIGNEE’S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known;

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	<u>3/18/2014</u>
Inventor's Signature	Date
<u>Tony Ambrus</u>	
Printed Name in English	Printed Name in Native Language (if other than English)



I Jeffrey Cole ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "DETERMINING COORDINATE FRAMES IN A DYNAMIC ENVIRONMENT" ("APPLICATION"), which:

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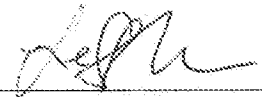
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	<u>3/15/2014</u>
Inventor's Signature	Date
<u>Jeffrey Cole</u>	
Printed Name in English	Printed Name in Native Language (if other than English)

I Ian Douglas McIntyre (“ASSIGNOR”) am the original inventor or an original joint inventor of subject matter (“INVENTION”) disclosed and/or claimed in a patent application entitled “DETERMINING COORDINATE FRAMES IN A DYNAMIC ENVIRONMENT” (“APPLICATION”), which:

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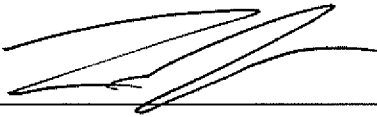
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 <hr/> Inventor's Signature	03/03/14 <hr/> Date
<hr/> Ian Douglas McIntyre Printed Name in English	<hr/> Printed Name in Native Language (if other than English)

I Drew Steedly (“ASSIGNOR”) am the original inventor or an original joint inventor of subject matter (“INVENTION”) disclosed and/or claimed in a patent application entitled “DETERMINING COORDINATE FRAMES IN A DYNAMIC ENVIRONMENT” (“APPLICATION”), which:

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 _____ Inventor's Signature	3/3/2014 _____ Date
Drew Steedly _____ Printed Name in English	_____ Printed Name in Native Language (if other than English)



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<u>F. Schaffalitzky</u> Inventor's Signature	<u>30 APR 2014</u> Date
<u>Frederik Schaffalitzky</u> Printed Name in English	<u></u> Printed Name in Native Language (if other than English)



I Georg Klein ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "DETERMINING COORDINATE FRAMES IN A DYNAMIC ENVIRONMENT" ("APPLICATION"), which:

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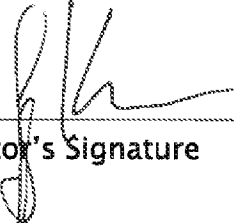
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	<u>3/11/2014</u>
Inventor's Signature	Date
<u>Georg Klein</u>	<u>Georg Klein</u>
Printed Name in English	Printed Name in Native Language (if other than English)

I Kathleen P. Mulcahy ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "DETERMINING COORDINATE FRAMES IN A DYNAMIC ENVIRONMENT" ("APPLICATION"), which:

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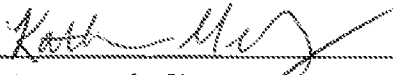
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	<u>3/11/2014</u>
Inventor's Signature	Date
<u>Kathleen P. Mulcahy</u>	
Printed Name in English	Printed Name in Native Language (if other than English)