

PATENT ASSIGNMENT

Electronic Version v1.1
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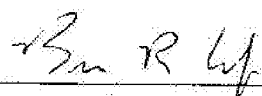
SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Brian R. Crawford</td> <td>12/14/2012</td> </tr> <tr> <td>Stephen H. Toub</td> <td>12/14/2012</td> </tr> </tbody> </table>		Name	Execution Date	Brian R. Crawford	12/14/2012	Stephen H. Toub	12/14/2012
Name	Execution Date						
Brian R. Crawford	12/14/2012						
Stephen H. Toub	12/14/2012						
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>13720655</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13720655		
Property Type	Number						
Application Number:	13720655						
CORRESPONDENCE DATA							
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<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	425-707-9382						
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Address Line 4:	Redmond, WASHINGTON 98052						
ATTORNEY DOCKET NUMBER:	336645.01						
NAME OF SUBMITTER:	Gopal Sharma						
<p>Total Attachments: 4 source=336645-01-Executed-Assignment#page1.tif source=336645-01-Executed-Assignment#page2.tif source=336645-01-Executed-Assignment#page3.tif source=336645-01-Executed-Assignment#page4.tif</p>							

CH \$40.00 13720655

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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).

	<u>12/14/2012</u>
Inventor's Signature	Date
<u>Brian R. Crawford</u>	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

MS Docket No.: 336645.01

I Stephen H. Toub ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "TEST SCOPE DETERMINATION BASED ON CODE CHANGE(S)" ("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 19-DEC-2012 and given Application No. 13/720655 by the following Office US 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 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

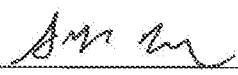
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ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

	<u>12/14/12</u>
Inventor's Signature	Date
<u>Stephen H. Toub</u>	
Printed Name in English	Printed Name in Native Language (if other than English)