

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5463578

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SCOTT COUNTS	03/29/2019
ROBERTA R. MOEUR	03/29/2019
CURTIS N. VON VEH	04/04/2019
JUSTIN BROOKS CRANSHAW	03/29/2019
STEVIE NICOLE CHANCELLOR	04/08/2019
ANTHONY CARBARY	04/01/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MICROSOFT TECHNOLOGY LICENSING, LLC
<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>
<b>Application Number:</b>	16378198
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>Email:</b>	usdoCKET@microsoft.com
<b>Correspondent Name:</b>	NEWPORT IP, LLC
<b>Address Line 1:</b>	1400 112TH AVE SE, SUITE 100
<b>Address Line 4:</b>	BELLEVUE, WASHINGTON 98004
<b>ATTORNEY DOCKET NUMBER:</b>	MS1-9207US
<b>NAME OF SUBMITTER:</b>	PAOLA SEVERICH
<b>SIGNATURE:</b>	/Paola Severich/
<b>DATE SIGNED:</b>	04/08/2019
<b>Total Attachments: 12</b>	
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I **Scott COUNTS** ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "USER INTERFACE FOR VISUALIZING SEARCH DATA" ("APPLICATION"), which:

will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representative, Microsoft Technology Licensing, LLC., One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on \_\_\_\_\_ and given Application No. \_\_\_\_\_ by the following Office US - 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 following Office "US - United States Patent and Trademark Office";

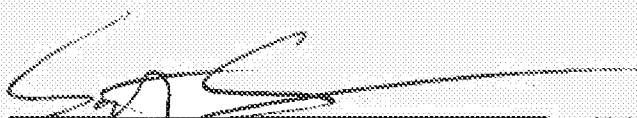
Microsoft Technology Licensing, LLC, a Washington limited liability company, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (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"));

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

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).

	<u>3/29/19</u>
Inventor's Signature	Date
<u>Scott COUNTS</u>	
Printed Name in English	Printed Name in Native Language (if other than English)

I **Roberta R. MOEUR** ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "USER INTERFACE FOR VISUALIZING SEARCH DATA" ("APPLICATION"), which:

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I **Curtis N. von VEH** (“ASSIGNOR”) am the original inventor or an original joint inventor of subject matter (“INVENTION”) disclosed and/or claimed in a patent application entitled “**USER INTERFACE FOR VISUALIZING SEARCH DATA**” (“APPLICATION”), which:

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I Justin Brooks CRANSHAW ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "USER INTERFACE FOR VISUALIZING SEARCH DATA" ("APPLICATION"), which:

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PATENT ASSIGNMENT

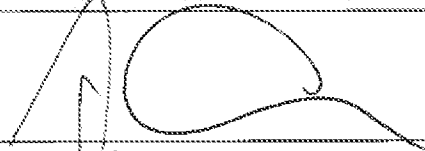
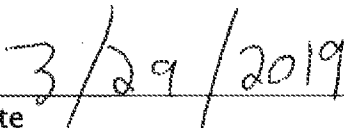
Client Docket No.: 404509-US-NP

Attorney Docket No.: MS1-9207US

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Inventor's Signature	Date
<u>Justin Brooks CRANSHAW</u>	
Printed Name in English	Printed Name in Native Language (if other than English)

I Stevie Nicole CHANCELLOR ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "USER INTERFACE FOR VISUALIZING SEARCH DATA" ("APPLICATION"), which:

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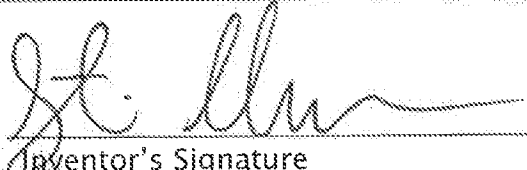
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 Inventor's Signature	<u>4/8/19</u> Date
<u>Stevie Nicole CHANCELLOR</u> Printed Name in English	 Printed Name in Native Language (if other than English)

I **Anthony CARBARY** (“ASSIGNOR”) am the original inventor or an original joint inventor of subject matter (“INVENTION”) disclosed and/or claimed in a patent application entitled “**USER INTERFACE FOR VISUALIZING SEARCH DATA**” (“APPLICATION”), which:

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	04/01/2019
_____ Inventor's Signature	_____ Date
<b>Anthony CARBARY</b>	
_____ Printed Name in English	_____ Printed Name in Native Language (if other than English)