

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

EPAS ID: PAT3412774

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YOGESH AJIT VAIDYA	05/28/2015
HUA DING	06/01/2015
NAN WU	06/05/2015
AARON CHUN WIN YUEN	06/02/2015
KARIM HASHAM	06/09/2015
PARTHASARATHY GOVINDARAJEN	06/24/2015
ARUN SACHETI	06/01/2015
YANFENG SUN	06/03/2015
YANDONG GUO	06/06/2015
DEEPAK SANTHANAM	06/20/2015
<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>	14749914
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(216)373-3450
<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>	216-654-0090
<b>Email:</b>	docketing@cooperlegalgroup.com
<b>Correspondent Name:</b>	COOPER LEGAL GROUP LLC
<b>Address Line 1:</b>	6505 ROCKSIDE ROAD
<b>Address Line 2:</b>	SUITE 330
<b>Address Line 4:</b>	INDEPENDENCE, OHIO 44131
<b>ATTORNEY DOCKET NUMBER:</b>	355499.01

PATENT

<b>NAME OF SUBMITTER:</b>	DAVID J. STEIN
<b>SIGNATURE:</b>	/David J. Stein/
<b>DATE SIGNED:</b>	06/25/2015
<b>Total Attachments: 20</b> source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif source=Assignment#page8.tif source=Assignment#page9.tif source=Assignment#page10.tif source=Assignment#page11.tif source=Assignment#page12.tif source=Assignment#page13.tif source=Assignment#page14.tif source=Assignment#page15.tif source=Assignment#page16.tif source=Assignment#page17.tif source=Assignment#page18.tif source=Assignment#page19.tif source=Assignment#page20.tif	

I, Yogesh Ajit Vaidya ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PROVIDING QUERY RECOURSE WITH EMBEDDED QUERY ADJUSTMENT OPTIONS" ("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 \_\_\_\_\_) this APPLICATION's Application No., filing date, and Office, when known;

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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>JA Vaidya</u>	<u>05/28/2015</u>
Inventor's Signature	Date
<u>Yogesh Ajit Vaidya</u>	<u></u>
Printed Name in English	Printed Name in Native Language (if other than English)

I, Hua Ding, ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PROVIDING QUERY RECOURSE WITH EMBEDDED QUERY ADJUSTMENT OPTIONS" ("APPLICATION"), which:

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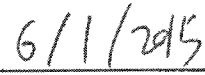

Application No.	Filing Date	Office

PATENT ASSIGNMENT

MS Docket No.: 355499.01

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_____ Inventor's Signature	_____ Date
Hua Ding	
_____ Printed Name in English	_____ Printed Name in Native Language (if other than English)

I, Nan Wu, ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PROVIDING QUERY RECOURSE WITH EMBEDDED QUERY ADJUSTMENT OPTIONS" ("APPLICATION"), which:

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	<u>6/5/2015</u>
Inventor's Signature	Date
<u>Nan Wu</u>	<u>吴楠</u>
Printed Name in English	Printed Name in Native Language (if other than English)



I, Aaron Chun Win Yuen, ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PROVIDING QUERY RECOURSE WITH EMBEDDED QUERY ADJUSTMENT OPTIONS" ("APPLICATION"), which:

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	6/2/2015
_____ Inventor's Signature	_____ Date
Aaron Chun Win Yuen	_____ Printed Name in Native Language (if other than English)
_____ Printed Name in English	

I, Karim Hasham, ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PROVIDING QUERY RECOURSE WITH EMBEDDED QUERY ADJUSTMENT OPTIONS" ("APPLICATION"), which:

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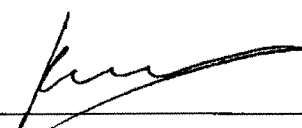
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 _____ Inventor's Signature	<u>6/9/15</u> _____ Date
<u>Karim Hasham</u> _____ Printed Name in English	_____ Printed Name in Native Language (if other than English)

I Parthasarathy Govindarajen ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PROVIDING QUERY RECOURSE WITH EMBEDDED QUERY ADJUSTMENT OPTIONS" ("APPLICATION"), which:

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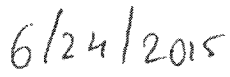
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Inventor's Signature	Date
Parthasarathy Govindarajen	பரதசாரதியி கோவிந்தராமன்
Printed Name in English	Printed Name in Native Language (if other than English)

I, Arun Sacheti, ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PROVIDING QUERY RECOURSE WITH EMBEDDED QUERY ADJUSTMENT OPTIONS" ("APPLICATION"), which:

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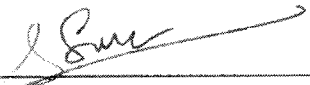
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 _____ Inventor's Signature	<u>6/1/2015</u> _____ Date
Arun Sacheti _____ Printed Name in English	ARUN SACHETI _____ Printed Name in Native Language (if other than English)



I, Yanfeng Sun, ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PROVIDING QUERY RECOURSE WITH EMBEDDED QUERY ADJUSTMENT OPTIONS" ("APPLICATION"), which:

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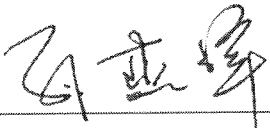
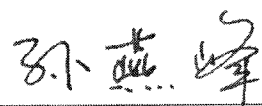
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 _____ Inventor's Signature	6/3/2015 _____ Date
<a href="#">Click here to enter text.</a> Yanfeng Sun _____ Printed Name in English	 _____ Printed Name in Native Language (if other than English)

I, Yandong Guo, ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PROVIDING QUERY RECOURSE WITH EMBEDDED QUERY ADJUSTMENT OPTIONS" ("APPLICATION"), which:

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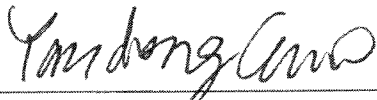
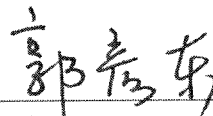
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	<u>June 6th</u>
Inventor's Signature	Date
Yandong Guo	
Printed Name in English	Printed Name in Native Language (if other than English)

I, Deepak Santhanam, ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "**PROVIDING QUERY RECOURSE WITH EMBEDDED QUERY ADJUSTMENT OPTIONS**" ("APPLICATION"), which:

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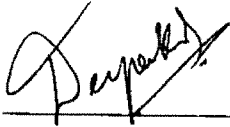
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 _____ Inventor's Signature	<u>6/20/2015</u> _____ Date
<u>Deepak Santhanam</u> _____ Printed Name in English	<u>தீபக் சந்திரன்</u> _____ Printed Name in Native Language (if other than English)