504301993 03/31/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
VAIDYARAMAN SAMBASIVAM	03/31/2017
NAGENDRA KOLLURU	03/31/2017
JIE LIU	03/31/2017

RECEIVING PARTY DATA

Name:	MICROSOFT TECHNOLOGY LICENSING, LLC	
Street Address:	ONE MICROSOFT WAY	
City:	REDMOND	
State/Country:	WASHINGTON	
Postal Code:	98052	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15476930

CORRESPONDENCE DATA

Fax Number:

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.

Email: usdocket@microsoft.com
Correspondent Name: POWELL IP LAW, PLLC

Address Line 1: 175 PARFITT WAY SW, #N285

Address Line 4: BAINBRIDGE ISLAND, WASHINGTON 98110

ATTORNEY DOCKET NUMBER:	401348.01
NAME OF SUBMITTER:	NOEMI TOVAR
SIGNATURE:	/NOEMI TOVAR/
DATE SIGNED:	03/31/2017

Total Attachments: 6

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PATENT REEL: 041819 FRAME: 0020

PATENT ASSIGNMENT	MS Docket No.: 401348.01
I <u>Vaidyaraman Sambasivam</u> ("ASSIGNOR") am the	original inventor or an original
oint inventor of subject matter ("INVENTION") disclos	ed and/or claimed in a patent
application entitled "IMPLICIT QUERY GENERATION BA	
"APPLICATION"), which:	
will be filed. ASSIGNOR hereby a	uthorizes, and requests,

	epresentative, Microsoft Technology Licensing,
	: Way, Redmond, Washington 98052 (ASSIGNEE'S ATIVES), to insert here in parentheses (filed
	and given Application No. 15/476,930 by
	ce <u>"US - United States Patent and Trademark</u>
	ATION's Application No., filing date, and Office,
when known;	
was filed on	and was given Application No by the
following Office "U	S - 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	

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Page 1 of 2

MS Docket No.: 401348.01

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).

= Vaidymanum.	03/31/2017
Inventor's Signature	Date
Vaidyaraman Sambasivam	
Printed Name in English	Printed Name in Native Language
	(If other than English)

PATENT ASSIGNMENT MS Docket No.: 401348.01

I <u>Nagendra Kolluru</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "<u>IMPLICIT QUERY GENERATION BASED ON PHYSICAL MOVEMENT</u>" ("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 $\frac{\text{March }31,2017}{\text{and given Application No.}}$ 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";

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Filing Date	Office	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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		Filing Date Office

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PATENT ASSIGNMENT MS Docket No.: 401348.01

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Inventor	3/31/13 Date
Nagendra Kolluru	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

I <u>Jie Liu</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "<u>IMPLICIT QUERY GENERATION BASED ON PHYSICAL MOVEMENT</u>" ("APPLICATION"), which:

will be filed. ASSIGNOR hereby authorizes, and requests
ASSIGNEE'S legal representative, Microsoft Technology Licensing
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\square was filed on $__$ and was given Application No $__$ by the
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MS Docket No.: 401348.01

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12	3/31/2017
Inventor's Signature	Date
Jie Liu	
Printed Name in English	Printed Name in Native Language
	(if other than English)

RECORDED: 03/31/2017