### 503933712 07/27/2016

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

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EPAS ID: PAT3980366

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
AMAN SINGHAL	07/18/2016
MARCELO M. DE BARROS	07/25/2016
MANISH MITTAL	07/15/2016
SIDDHARTH S. SHENOY	07/20/2016

### **RECEIVING PARTY DATA**

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Street Address: ONE MICROSOFT WAY		
City:	REDMOND	
State/Country:	WASHINGTON	
Postal Code:	98052	

### **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	15220761	

### **CORRESPONDENCE DATA**

**Fax Number:** (425)936-7329

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.

using a lax number, if provided, if that is unsuccessful, it will be sent vi

**Phone:** 425-707-9382

Email: stevensp@microsoft.com

Correspondent Name: MICROSOFT CORPORATION

Address Line 1: ONE MICROSOFT WAY

Address Line 4: REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER:	360279.01
NAME OF SUBMITTER:	JARED S. GOFF
SIGNATURE:	/Jared S. Goff/
DATE SIGNED:	07/27/2016

### **Total Attachments: 8**

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PATENT 503933712 REEL: 039270 FRAME: 0451

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> PATENT REEL: 039270 FRAME: 0452

# PATENT ASSIGNMENT MS Docket No.: 360279.01

l <u>Ama</u>	<u>n Singhal</u> ("ASSIGNC	JR") am the original inve	ntor or an original joint inventor
of subject ma	atter ("INVENTION")	disclosed and/or claime	d in a patent application entitled
"CROSS-PLA"	TFORM COMPUTER	APPLICATION QUERY	CATEGORIES" ("APPLICATION"),
which:			
$\boxtimes$	will be filed.	ASSIGNOR hereby aut	horizes, and requests,
			ft Technology Licensing,
	***	•	ngton 98052 (ASSIGNEE'S
		•	e in parentheses (filed
		• •	on No. 15220761 by
			and Office, when known;
	WEETING IN STAN	piitation 190., ming date,	and Unite, which known,
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derived there United States  ASSIC	efrom, such as cont s, its territories, and NOR hereby authori	tinuing applications, in I all foreign countries ("/ zes, and requests, ASSI(	I other applications and patents whole or in part, in and for the APPLICATION DERIVATIVES"));  SNEE'S LEGAL REPRESENTATIVES nto the following table for any
APPLICATION	N DERIVATIVES after	they are known;	
Application	No.	Filing Date	Office
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Page 1 of 2

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).

Aman	07/18/2016
Inventor's Signature	Date
Aman Singhal	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: 360279.01

## PATENT ASSIGNMENT MS Docket No.: 360279.01

l <u>Marcelo M. De Barros</u> (" <i>F</i>	ASSIGNOR") am the origina	l inventor or an original joint
inventor of subject matter ("	INVENTION") disclosed a	nd/or claimed in a patent
application entitled "CROSS-PLA	TFORM COMPUTER APPLIC	CATION QUERY CATEGORIES"
("APPLICATION"), which:		
( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )		
	ASSIGNOR hereby autho	
_	representative, Microsoft i t Way, Redmond, Washingt	
LEGAL REPRESENT	ATIVES), to insert here	in parentheses (filed
_	and given Application	•
	ffice USPTO	
	olication No., filing date, ar	
APPLICATION'S APP	meation ivo., ning date, ar	id Office, when known,
was filed on	and was given A	pplication
No	by the following Office	
	".	
behalf of itself and its successors of acquiring, the entire and exception of acquiring, the INVENTION and the derived therefrom, such as contunited States, its territories, and	s and assigns ("ASSIGNEE"), clusive rights, title and in he APPLICATION (and all o cinuing applications, in wh all foreign countries ("API zes, and requests, ASSIGN	terest, including the right of ther applications and patents ole or in part, in and for the PLICATION DERIVATIVES")); EE'S LEGAL REPRESENTATIVES
APPLICATION DERIVATIVES after	•	the following table for any
Application No.	Filing Date	Office
		l

Page 1 of 2

MS Docket No.: 360279.01

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).

Inventor's Signature

Date

Marcelo M. De Barros

Printed Name in English

THREETO L. DE PHINKI

Printed Name in Native Language

(if other than English)

MS Docket No.: 360279.01

I <u>Manish Mittal</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>CROSS-PLATFORM COMPUTER APPLICATION QUERY CATEGORIES</u>" ("APPLICATION"), which:

$\boxtimes$	will be filed. ASSIGNOR hereby authorizes, and request	5,
	ASSIGNEE'S legal representative, Microsoft Technology Licensing	g,
	LLC., One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE	'S
	LEGAL REPRESENTATIVES), to insert here in parentheses (file	ed
	on July 27, 2016 and given Application No. 15220761 t	зγ
	the following Office <u>USPTO</u> ) th	
	APPLICATION's Application No., filing date, and Office, when know	
	was filed on and was given Application	
	Noby the following Office	
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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.	,	Office	
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			·····

MS Docket No.: 360279.01

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).

Hadde	07/15/2016
Inventor's Signature	Date
Manish Mittal	सनीप मिनल
Printed Name in English	Printed Name in Native Language (if other than English)

l <u>Sidd</u>	<u>harth S. Shenoy</u> ("A	SSIGNOR") am the origin	al inventor or an original joint
inventor of	subject matter ("	INVENTION") disclosed	and/or claimed in a patent
application e	entitled " <u>CROSS-PL/</u>	ATFORM COMPUTER APPL	ICATION QUERY CATEGORIES'
("APPLICATIO	DN"), which:		
$\boxtimes$	will be filed.	ASSIGNOR hereby auth	orizes, and requests,
		representative, Microsoft	
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		ATIVES), to insert here	
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of acquiring priority, in the derived then United State:	, the entire and ex ne INVENTION and t efrom, such as con s, its territories, and	clusive rights, title and in the APPLICATION (and all tinuing applications, in which is all foreign countries ("A	"), is entitled to, and is desirous nterest, including the right of other applications and patents whole or in part, in and for the PPLICATION DERIVATIVES"));
	•		NEE'S LEGAL REPRESENTATIVES
	, -	<del>-</del>	to the following table for any
	N DERIVATIVES after	!	
Application	No.	Filing Date	Office

Page 1 of 2

MS Docket No.: 360279.01

MS Docket No.: 360279.01

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Mhenoy	July 20, 2016
Inventor's Signature	Date
Siddharth S. Shenoy	
Printed Name in English	Printed Name in Native Language
	(if other than English)

**RECORDED: 07/27/2016**