#### 503366152 06/25/2015

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3412774

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
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

#### 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:	14749914			

#### CORRESPONDENCE DATA

Fax Number: (216)373-3450

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.

Phone: 216-654-0090

Email: docketing@cooperlegalgroup.com COOPER LEGAL GROUP LLC Correspondent Name:

Address Line 1: 6505 ROCKSIDE ROAD

Address Line 2: **SUITE 330** 

Address Line 4: INDEPENDENCE, OHIO 44131

ATTORNEY DOCKET NUMBER: 355499.01

PAIENI REEL: 035966 FRAME: 0150 503366152

NAME OF SUBMITTER:	DAVID J. STEIN
SIGNATURE:	/David J. Stein/
DATE SIGNED:	06/25/2015
Total Attachments: 20	
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PATENT REEL: 035966 FRAME: 0151

# PATENT ASSIGNMENT MS Docket No.: 355499.01

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;
was filed on and was given Application
No by the following 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

Page 1 of 2

MS Docket No.: <u>355499.01</u>

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"));

JA Vaidya. Inventor's Signature	05/28/2015 Date
Yogesh Ajit Vaidya Printed Name in English	Printed Name in Native Language
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			or an original joint inventor of n a patent application entitled
			JERY ADJUSTMENT OPTIONS"
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	ASSIGNEE'S legal LLC., One Microsof LEGAL REPRESENT on the following Office	ASSIGNOR hereby authorepresentative, Microsoft Way, Redmond, Washin ATIVES), to insert here and given Applications and given Applications with the control of the control o	Technology Licensing, gton 98052 (ASSIGNEE'S in parentheses (filed n No by) this
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Page 1 of 2

MS Docket No.: \_355499.01

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5华	6/1/2015
Inventor's Signature	Date W.
Hua Ding	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT	MS Docket No.:	355499.01

I, Nar	<u>ı Wu. ("A</u>	(SSIGNOR") a	m the	original inven	itor or ar	original joint	inventor of
subject matt	er ("INVE	NTION") dise	closed	and/or claim	ed in a p	atent applicati	on entitled
"PROVIDING	QUERY	RECOURSE	WITH	EMBEDDED	QUERY	ADJUSTMENT	OPTIONS"
("APPLICATIO	N"), whic	ch:					

$\boxtimes$	will	be	filed.	ASSIGNOR	hereby	authorize	es, and	requests,
	ASSI	GNE	E'S lega	l representat	ive, Micr	osoft Tec	hnology	Licensing,
	LLC., One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S							
	LEGA	AL R	REPRESEN	NTATIVES), t	o insert	here in	parenthe	eses (filed
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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;

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MS Docket No.: 355499.01

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"));

learn	615/2015
Inventor's Signature	Date
Nan Wu	吴梅
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Aar</u>	<u>on Chun Win Yuen,</u>	("ASSIGNOR") am	the original	inventor or a	an original joint
	subject matter				
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Page 1 of 2

PATENT ASSIGNMENT MS Docket No.: 355499.01

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"));

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

PATENT	ASSIGNMENT	MS Docket No.: 355	499.01
I <u>Karim Hasham</u> , (") inventor of subject matter application entitled "PROVIDIN OPTIONS" ("APPLICATION"), where the subject is application of the subject of	("INVENTION") discl IG QUERY RECOURSE V		patent
ASSIGNEE'S lega LLC., One Micros LEGAL REPRESE on the following Of	Il representative, Micsoft Way, Redmond, V NTATIVES), to inser and given App	authorizes, and requests arosoft Technology Licensing Vashington 98052 (ASSIGNEE'S there in parentheses (filed lication No	
No	and was by the following ":		
Microsoft Technology L behalf of itself and its success of acquiring, the entire and o priority, in the INVENTION and derived therefrom, such as co United States, its territories, a	ors and assigns ("ASS exclusive rights, title d the APPLICATION (a ontinuing application	and interest, including the r nd all other applications and p s, in whole or in part, in and	esirous ight of patents for the
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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"));

MS Docket No.: <u>355499.01</u>

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).

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			sclosed and/or claimed in a paten	
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OPTIONS" ("A	APPLICATION"), whi	ch:		
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Page 1 of 2

MS Docket No.: \_355499.01

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"));

Chartes wothy	6/24/2015
Inventor's Signature	Date
Parthasarathy Govindarajen	unjaganoal Canadijagnzion
Printed Name in English	Printed Name in Native Language (if other than English)

I.Am	m Sacheti. ("ASSIGN	NOR") am the original inv	ventor or an original joint inventor
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"PROVIDING	QUERY RECOURS	SE WITH EMBEDDED	QUERY ADJUSTMENT OPTIONS"
("APPLICATIO	DN"), which:		
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PATENT ASSIGNMENT	MS Docket No.:	355499.01

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"));

1 Em	6/1/2015
Inventor's Signature	Date
Arun Sacheti	FIRON SACHETI
Printed Name in English	Printed Name in Native Language
	(if other than English)

	PATENT	ASSIGNMENT	MS Docket No.: <u>355499.01</u>
of subject m	atter ("INVENTION" QUERY RECOURS	disclosed and/or claimed	tor or an original joint inventor in a patent application entitled ERY ADJUSTMENT OPTIONS
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MS Docket No.: 355499.01

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公立是	6/3/2015
Inventor's Signature	Date
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Yanfeng Sun	0.1 24 4
Printed Name in English	Printed Name in Native Language (if other than English)

inventor of application e	subject matter (	"INVENTION") disclosed QUERY RECOURSE WITH E	inventor or an original joint and/or claimed in a patent MBEDDED QUERY ADJUSTMENT				
	ASSIGNEE'S legal LLC., One Microso LEGAL REPRESENT on the following Office	be filed. ASSIGNOR hereby authorizes, and requests, signes's legal representative, Microsoft Technology Licensing,, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S FAL REPRESENTATIVES), to insert here in parentheses (filed and given Application No by following Office ) this pulcation No., filing date, and Office, when known;					
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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"));							
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MS Docket No.: 355499.01

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Yandong and	June 6th		
Inventor's Signature	Date		
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Printed Name in English	Printed Name in Native Language		
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	PATENT A	ASSIGNMENT	MS Docket No.:	_355499.01
inventor of application e	subject matter ("	ASSIGNOR") am the original (INVENTION") disclosed a QUERY RECOURSE WITH EN	and/or claimed i	n a patent
	ASSIGNEE'S legal LLC., One Microsof LEGAL REPRESENT on the following Offic APPLICATION's Ap	ASSIGNOR hereby authorepresentative, Microsoft ft Way, Redmond, Washing TATIVES), to insert here and given Application se plication No., filing date, and given Application plication No., filing date, and given Application No.,	Technology Licer ton 98052 (ASSIG in parentheses No nd Office, when kr	nsing, NEE'S (filed by ) this
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Page 1 of 2

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6/20/2015 Date BUB ABBNOME Inventor's Signature

Deepak Santhanam

Printed Name in English Printed Name in Native Language (if other than English)

RECORDED: 06/25/2015