504022392 09/26/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4069051

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PANAGIOTIS ANTONOPOULOS	09/20/2016
DONALD ALAN KOSSMANN	09/19/2016
RAVI RAMAMURTHY	09/20/2016
KENNETH HIROSHI EGURO	09/21/2016
RAGHAV KAUSHIK	09/18/2016
KEDAR DUBHASHI	09/20/2016
ARVIND ARASU	09/19/2016
JOACHIM HAMMER	09/20/2016
JAKUB SZYMASZEK	09/20/2016
BALA NEERUMALLA	09/21/2016

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:	15275101

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, ashley@cuttingedgepatents.com

Correspondent Name: ASSAL MEFTAHI

Address Line 1: ONE MICROSOFT WAY

Address Line 2: PATENT GROUP DOCKETING DEPARTMENT

Address Line 4: REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER: 359684.01

PATENT REEL: 039858 FRAME: 0732

504022392

NAME OF SUBMITTER:	MARK A. WATSON	
SIGNATURE:	/Mark A. Watson/	
DATE SIGNED:	09/26/2016	
Total Attachments: 20		
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> PATENT REEL: 039858 FRAME: 0733

PATENT ASSIGNMENT MS Docket No.: 359684.01

joint invente application	or of subject ma	itter ("INVENTION") d -BASED DATABASE	am the original inventor or an or disclosed and/or claimed in a p CONFIDENTIALITY USING TRI	patent
	ASSIGNEE'S leg LLC., One Micro LEGAL REPRESE on 2016-09 the following	al representative, Missoft Way, Redmond, VENTATIVES), to inser 9–23 and given App	y authorizes, and requests, crosoft Technology Licensing, Washington 98052 (ASSIGNEE'S there in parentheses (filed plication No. 15/275, 101 by USPTO this date, and Office, when known;	
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behalf of itse of acquiring, priority, in the derived there	If and its success, the entire and see INVENTION and efform, such as co	ors and assigns ("ASS exclusive rights, title d the APPLICATION (a ontinuing application	hington limited liability compar IGNEE"), is entitled to, and is des and interest, including the rig and all other applications and pa s, in whole or in part, in and fo ies ("APPLICATION DERIVATIVES"	sirous pht of itents or the
to insert the	Application No.	orizes, and requests, , filing date, and Off er they are known;	ASSIGNEE'S LEGAL REPRESENTATION fice into the following table for	TIVES r any
Application		Filing Date	Office	

MS Docket No.: 359684.01

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	9/20/2016
Inventor's Signature	Date
Panagiotis Antonopoulos	Nounzinins Armionoulos
Printed Name in English	Printed Name in Native Language
	(if other than English)

	PATENT A	SSIGNMENT	MS Docket No.: 359684.01
joint inventor application	of subject matter	("INVENTION") disclosed ED DATABASE CONFIC	original inventor or an original d and/or claimed in a patent DENTIALITY USING TRUSTED
	ASSIGNEE'S legal r LLC., One Microsoft LEGAL REPRESENTA on 2016-09-2 the following Of	ASSIGNOR hereby auth epresentative, Microsoft : Way, Redmond, Washing ATIVES), to insert here (22, and given Application fice USPT alication No., filing date, a	Technology Licensing, you 98052 (ASSIGNEE'S in parentheses (filed No. $15/275,101$ by 0 this
		and was given by the following Office ":	
behalf of itsel of acquiring, priority, in th derived there	f and its successors the entire and exc e INVENTION and the from, such as cont	and assigns ("ASSIGNEE" dusive rights, title and in ne APPLICATION (and all inuing applications, in w	n limited liability company, on), is entitled to, and is desirous nterest, including the right of other applications and patents hole or in part, in and for the PPLICATION DERIVATIVES"));
to insert the		ling date, and Office in	NEE'S LEGAL REPRESENTATIVES to the following table for any
Application		Filing Date	Office
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Page 1 of 2

PATENT REEL: 039858 FRAME: 0736

MS Docket No.: 359684.01

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"));

lle_	9/19/2016
Inventor's Signature	Date
Donald Alan Kossmann	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT MS Docket No.: 359684.01

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inventor of application	subject matter ("i	INVENTION") disclosed a SED DATABASE CONFID	al inventor or an original joint nd/or claimed in a patent ENTIALITY USING TRUSTED
	ASSIGNEE'S legal is LLC., One Microsof LEGAL REPRESENT on 2016-09-2 the following O	ASSIGNOR hereby authorepresentative, Microsoft of Way, Redmond, Washingth ATIVES), to insert here with and given Application of the with t	Technology Licensing, ton 98052 (ASSIGNEE'S in parentheses (filed No. 15/275, 101 by this
		and was given A by the following Office ";	pplication
behalf of itse of acquiring priority, in t derived ther United State	elf and its successors the entire and exc he INVENTION and t efrom, such as cont s, its territories, and	s and assigns ("ASSIGNEE"), clusive rights, title and in he APPLICATION (and all o tinuing applications, in wh all foreign countries ("API	limited liability company, on, is entitled to, and is desirous terest, including the right of ther applications and patents tole or in part, in and for the PLICATION DERIVATIVES"));
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Application		Filing Date	Office
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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).

R. Qarell,	9/20/2016
Inventor's Signature	Date
Ravi Ramamurthy	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: 359684.01

joint invento application	or of subject ma	tter ("INVENTION") d BASED DATABASE	n the original inventor or isclosed and/or claimed CONFIDENTIALITY USINC	in a patent
	ASSIGNEE'S legal LLC., One Microst LEGAL REPRESE on 2016-09 the following	ll representative, Misoft Way, Redmond, V NTATIVES), to inser –23 and given App Office	vauthorizes, and requerosoft Technology Licent Vashington 98052 (ASSIGN there in parentheses (lication No. 15/275, 10 USPTO date, and Office, when known	sing, NEE'S (filed 1 by this
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of acquiring priority, in the derived ther United State:	, the entire and one INVENTION and efrom, such as cons, its territories, a	exclusive rights, title I the APPLICATION (a Intinuing application and all foreign countri	IGNEE"), is entitled to, and and interest, including to the applications and all other applications and the control of the con	he right of and patents and for the TIVES"));
to insert the	Application No.	, filing date, and Of	ASSIGNEE'S LEGAL REPRES fice into the following tal	
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Page 1 of 2

MS Docket No.: 359684.01

MS Docket No.: 359684.01

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"));

	9/21/16
Inventor's Signature	Date
Kenneth Hiroshi Eguro	
Printed Name in English	Printed Name in Native Language
	(if other than English)

			iginal inventor or an original joint
			osed and/or claimed in a patent
	" ("APPLICATION")		ONFIDENTIALITY USING TRUSTED
	will be filed.	ASSIGNOR hereby	authorizes, and requests,
	LLC., One Micros	oft Way, Redmond, W	rosoft Technology Licensing, ashington 98052 (ASSIGNEE'S here in parentheses (filed
	on <u>2016-09-</u>	23_ and given Appli	cation No. <u>15/275, 101</u> by
	the following	Office <u>U</u>	SPTO) this
	APPLICATION'S A	pplication No., filing o	date, and Office, when known;
	was filed on	and was (given Application
		by the following	
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priority, in the	ne INVENTION and efrom, such as co	the APPLICATION (anninuing applications	and interest, including the right of id all other applications and patents, in whole or in part, in and for the ("APPLICATION DERIVATIVES"));
to insert the	Application No.,		ASSIGNEE'S LEGAL REPRESENTATIVES ce into the following table for any
Application	***************************************	Filing Date	Office
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Page 1 of 2

MS Docket No.: 359684.01

MS Docket No.: 359684.01

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"));

C. R. Kambie	3/18//6
Inventor's Signature	Date
Raghav Kaushik	
Printed Name in English	Printed Name in Native Language (if other than English)

	PATEN	I ASSIGNMENT	MS D	ocket No.:	359684.01
Ι <u>Κ</u> ε	<u>edar Dubhashi</u>	_ ("ASSIGNOR") am	the original inve	ntor or an o	original joint
		("INVENTION") d			
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COMPUTING	[" ("APPLICATION")), which:			
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		al representative,			
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		NTATIVES), to in			
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		exclusive rights, t d the APPLICATION			
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ASSIG	NOR hereby author	orizes, and reques	ts. ASSIGNEF'S I	FGAL REPRE	SENTATIVES
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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 I of 2

MS Docket No.: 359684.01

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"));

Q. blash:	09/20/2016
Inventor's Signature	Date
Kedar Dubhashi	
Printed Name in English	Printed Name in Native Language
	(if other than English)

	PATENT A	SSIGNMENT	MS Docket No. 359684.01
inventor of application (subject matter (*	INVENTION") disclosed a SED DATABASE CONFID	I inventor or an original joint ind/or claimed in a patent ENTIALITY USING TRUSTED
	ASSIGNEE'S legal i LLC., One Microsof LEGAL REPRESENT on <u>2016-09-2</u> the following O	ASSIGNOR hereby authorepresentative, Microsoft tway, Redmond, Washing ATIVES), to insert here 3_and given Application fficeUSPTC plication No., filing date, as	Technology Licensing, ton 98052 (ASSIGNEE'S in parentheses (filed No. 15/275,101 by
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Application N	lo.	Filing Date	Office
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Page 1 of 2

PATENT REEL: 039858 FRAME: 0746

MS Docker No.: 359684-01

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"));

A.A.	09/19/2016
Inventor's Signature	Date
Arvind Arasu	
Printed Name in English	Printed Name in Native Language
	(if other than English)

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inventor of application	subject matter (("INVENTION") disc ASED DATABASE	e original inventor or ar losed and/or claimed CONFIDENTIALITY USI	in a patent
	ASSIGNEE'S legal LLC., One Microso LEGAL REPRESEN on 2016-09-the following (representative, Mi oft Way, Redmond, V TATIVES), to inser -23 and given App Office	/ authorizes, and recrosoft Technology Licovashington 98052 (ASSI) there in parentheses lication No. 15/275, USPTO date, and Office, when	ensing, GNEE'S (filed 101 by) this
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behalf of itse of acquiring priority, in th derived then United States ASSIG to insert the	elf and its successor the entire and ex- ne INVENTION and efrom, such as con s, its territories, and NOR hereby author Application No.,	rs and assigns ("ASS (clusive rights, title the APPLICATION (a stinuing application d all foreign countr izes, and requests, filing date, and Of	hington limited liability IGNEE"), is entitled to, a and interest, including nd all other applications, in whole or in part, it es ("APPLICATION DERI" ASSIGNEE'S LEGAL REPRICE into the following	nd is desirous
APPLICATION Application	I DERIVATIVES afte	r they are known; Filing Date	Office	

MS Docket No.: 359684.01

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).

/nventor's Sigh/Ature

Joachim Hammer

Printed Name in English

Date

Printed Name in Native Language

(if other than English)

inventor of	<u>ub Szymaszek</u> ("ASSIGNOR") am the c subject matter ("INVENTION") disclos	ed and/or claimed i	n a patent
	entitled " <u>TYPE-BASED DATABASE CC</u> '("APPLICATION"), which:	<u> INFIDENTIALITY USING</u>	7 TRUSTED
	will be filed. ASSIGNOR hereby ASSIGNEE'S legal representative, Microsoft Way, Redmond, Wallegal REPRESENTATIVES), to insert on 2016-09-23 and given Application following Office USE APPLICATION's Application No., filing displacements	osoft Technology Licer shington 98052 (ASSIG here in parentheses ation No. 15/275,10	ising, NEE'S (filed <u>01</u> by this
	was filed on and was g No by the following ("";		

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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MS Docket No.: 359684.01

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).

hventor's Signature

Jakub Szymaszek

Printed Name in English

7/20/20/

Date

<u>Takub Szymaszek</u> Printed Name in Native Language

(if other than English)

PATENT ASSIGNMENT MS Docket No.: 359684.01

inventor of application	subject matter	("INVENTION") disclosed ASED DATABASE CONFIL	nal inventor or an original joint and/or claimed in a patent DENTIALITY USING TRUSTED
	ASSIGNEE'S legal LLC., One Microso LEGAL REPRESENT on 2016-09-the following C	ASSIGNOR hereby auth representative, Microsoft of Way, Redmond, Washing TATIVES), to insert here 23 and given Application Office USPT optication No., filing date, a	Technology Licensing, gton 98052 (ASSIGNEE'S in parentheses (filed to No. 15/275, 101 by this
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behalf of itse of acquiring, priority, in th derived there	If and its successor the entire and ex e INVENTION and t from, such as con	s and assigns ("ASSIGNEE") clusive rights, title and ir the APPLICATION (and all c tinuing applications, in wl	n limited liability company, on i, is entitled to, and is desirous iterest, including the right of other applications and patents hole or in part, in and for the PLICATION DERIVATIVES"));
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Application	No.	Filing Date	Office
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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"));

	09/21/2016
Inventor's Signature	Date
Bala Neerumalia	నోరుమళ్ల బాల రాడు కోడేగ్రర్గాకు
Printed Name in English	Printed Name in Native Language (if other than English)