505062318 08/24/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5109073

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YOTAM LIVNY	08/16/2018
ROY LEVIN	08/16/2018
RAM HAIM PLISKIN	08/19/2018
BEN KLIGER	08/16/2018
MATHIAS ABRAHAM MARC SCHERMAN	08/16/2018
MOSHE ISRAEL	08/16/2018
MICHAEL ZEEV BARGURY	08/16/2018

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:	16105189

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.

Phone: 425-707-9382

Email: usdocket@microsoft.com

MICROSOFT CORPORATION **Correspondent Name:**

ONE MICROSOFT WAY Address Line 1:

Address Line 4: REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER:	404861-US-NP
NAME OF SUBMITTER:	THOMAS C. FIALA
SIGNATURE:	/Thomas C. Fiala, #43,610/
DATE SIGNED:	08/24/2018

PATENT REEL: 046696 FRAME: 0157

505062318

Total Attachments: 14 source=404861-US-NP_Assignment_ALL#page1.tif source=404861-US-NP_Assignment_ALL#page2.tif source=404861-US-NP_Assignment_ALL#page3.tif source=404861-US-NP_Assignment_ALL#page4.tif source=404861-US-NP_Assignment_ALL#page5.tif source=404861-US-NP_Assignment_ALL#page6.tif source=404861-US-NP_Assignment_ALL#page7.tif source=404861-US-NP_Assignment_ALL#page8.tif source=404861-US-NP_Assignment_ALL#page9.tif source=404861-US-NP_Assignment_ALL#page10.tif source=404861-US-NP_Assignment_ALL#page11.tif source=404861-US-NP_Assignment_ALL#page12.tif source=404861-US-NP_Assignment_ALL#page13.tif source=404861-US-NP_Assignment_ALL#page13.tif source=404861-US-NP_Assignment_ALL#page14.tif

PATENT REEL: 046696 FRAME: 0158 I <u>Yotam LIVNY</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>SIMILARITY BASED APPROACH FOR CLUSTERING AND ACCELERATING MULTIPLE INCIDENTS INVESTIGATION</u>" ("APPLICATION"), which:

\times	will	be	filed.	ASSIGNOR	hereby	authorizes	s, and	request	s,
	ASSI	GNE	E'S legal	representa	tive, Micı	rosoft Tech	nology	Licensin	g,
	LLC,	One	Microso	ft Way, Red	mond, Wa	ashington 9	8052 (/	ASSIGNEE	'S
	LEG/	AL R	EPRESEN ⁻	TATIVES), to	insert h	nere in pare	enthese	s (filed c	n
	<u>Aug</u> ı	ust 2	<u>20, 2018</u>	and given	Applicat	ion No. <u>16</u>	5/105,1	<u>89</u> by th	ıe
	follo	wing	office <u>U</u>	S – United S	<u>tates Pate</u>	ent and Trac	<u>lemark</u>	Office) th	is
	APPL	_ICA ⁻	TION's A _l	oplication N	o., filing o	date, and Of	fice, wh	ien know	n;
	was	filed	on		and was	given Appli	cation		
	No _			by the f	ollowing	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"));

Application No.	Filing Date	Office

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).

| Yotam LIVNY | Date | Printed Name in English | Printed Name in Native Language (if other than English)

I <u>Roy LEVIN</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>SIMILARITY BASED APPROACH FOR CLUSTERING AND ACCELERATING MULTIPLE INCIDENTS INVESTIGATION</u>" ("APPLICATION"), which:

\boxtimes	will	be	filed.	ASSIGNOR	hereby	authorizes	and	reque	ests
	ASSIC	SNEE	'S legal	representa	tive, Mici	osoft Techr	ology	Licens	ing
	LLC,	One	Microsc	oft Way, Redi	mond, Wa	ashington 98	3052 (A	ASSIGN	EE'S
	LEGA	L RE	EPRESEN'	TATIVES), to	insert h	iere in pare	nthese	s (filed	on
	<u>Augu</u>	st 2	0, 2018	_and given	Applicati	on No. <u>16</u>	105,1	<u>89</u> by	the
	follov	wing	Office <u>L</u>	<u> IS – United S</u>	tates Pate	ent and Trade	<u>emark</u>	Office)	this
	APPL	ICAT	TON's A	pplication N	o., filing o	date, and Off	ice, wh	ien kno)Wn
	was f	iled	on		and was	given Applic	ation		
	No _			by the f	ollowing	Office			
	u				".				

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Application No.	Filing Date	Office	
***************************************	***************************************		

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 Signature

niventor's signature

Roy LEVIN
Printed Name in English

16 Aug 2018

Date

Printed Name in Native Language

(if other than English)

I Ram Haim PLISKIN ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SIMILARITY BASED APPROACH FOR CLUSTERING AND ACCELERATING MULTIPLE INCIDENTS INVESTIGATION" ("APPLICATION"), which:

\times	will	be	filed.	ASSIGNOR	hereby	authorizes	, and	reque	sts
	ASSIC	INEE	'S legal	representat	ive, Micr	osoft Tech	nology	Licensi	ing
	LLC,	One	Microso	oft Way, Redr	nond, Wa	ishington 9	8052 (/	ASSIGNI	EE'S
	LEGA	L RE	PRESEN	TATIVES), to	insert h	iere in pare	nthese	s (filed	on
	<u>Augu</u>	<u>st 2</u>	0, 2018	_and given	Applicati	on No. <u>16</u>	<u>/105,1</u>	<u>89</u> by	the
	follov	ving	Office <u>L</u>	<u> IS – United St</u>	ates Pate	ent and Trad	<u>emark</u>	Office)	this
	APPLI	ICAT	ION's A	pplication No	o., filing o	late, and Of	fice, wł	ien kno	wn:
	was f	iled	on		and was o	given Applic	ation		
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Application No.	Filing Date	Office	

	ł i	

Bul y	August 19, 2018
Inventor's Signature	Date
Ram Haim PLISKIN	רם חיים פליסקין
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Ben KLIGER</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>SIMILARITY BASED APPROACH FOR CLUSTERING AND ACCELERATING MULTIPLE INCIDENTS INVESTIGATION</u>" ("APPLICATION"), which:

\boxtimes	will	be	filed.	ASSIGNO	OR he	ereby	autho	orizes,	and	reque	ests
	ASSIC	INEE	'S legal	represer	ıtative	, Micr	osoft	Techno	ology	Licens	ing
	LLC,	One	Microso	ft Way, R	edmor	ıd, Wa	shing	ton 980)52 (A	ASSIGN	EE'S
	LEGA	L RE	PRESEN	TATIVES),	to in	sert h	ere in	paren	these	s (filed	on
	<u>Augu</u>	st 2	0, 2018	and give	en App	olicatio	on No.	. <u>16/1</u>	05,18	<u>89</u> by	the
	follov	ving	Office <u>U</u>	S – Unite	<u>d State</u>	s Pate	nt and	<u> Trade</u>	mark (Office)	this
	APPLI	ICAT	ION's A	oplication	No., f	iling c	late, ai	nd Offic	ce, wh	en kno	own
	was f	iled	on		and	was g	given <i>A</i>	Applica	tion		
	No _			by th	e follo	wing	Office				
	u					".					

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Application No.	Filing Date	Office	
***************************************	***************************************		

	08/16/2018
Inventor's Signature	Date
Ben KLIGER	בן קליגר
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Mathias Abraham Marc SCHERMAN</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>SIMILARITY BASED APPROACH FOR CLUSTERING AND ACCELERATING MULTIPLE INCIDENTS INVESTIGATION</u>" ("APPLICATION"), which:

X	will l	be '	filed.	ASSIGNOR	hereby	autho	rizes,	and	requ	ests,
	ASSIG	NEE'	'S legal	representat	ive, Micr	osoft	Techno	logy	Licens	sing,
	LLC, C	One	Microso	ft Way, Redi	nond, Wa	ashingt	on 980)52 (A	SSIGN	IEE'S
	LEGAL	RE	PRESENT	ΓATIVES), to	insert h	iere in	parent	theses	s (filed	no t
	<u>Augus</u>	st 20	<u>), 2018</u>	and given	Applicati	on No.	<u>16/1</u>	05,18	<u>89</u> by	the
	follow	/ing	Office <u>U</u>	S – United St	tates Pate	nt and	<u>Trader</u>	nark (Office)	this
	APPLIC	CATI	ION's Ap	plication No	o., filing o	late, ar	d Offic	e, wh	en kno	own;
	was fi	led (o n	6	and was g	given A	pplicat	ion		
	No			by the f	ollowing	Office				
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Application No.	Filing Date	Office

	-
16/8/18	•
Date	
Printed Name in Native Language	

I <u>Moshe ISRAEL</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>SIMILARITY BASED APPROACH FOR CLUSTERING AND ACCELERATING MULTIPLE INCIDENTS INVESTIGATION</u>" ("APPLICATION"), which:

\boxtimes	will	be	filed.	ASSIGNOR	hereby	autho	rizes,	and	reque	sts,
	ASSI	GNE	E'S legal	representat	ive, Micr	osoft 1	Гесһпо	logy	Licens	ing,
	LLC,	One	Microso	ift Way, Redr	nond, Wa	ishingt	on 980)52 (A	SSIGNI	EE'S
	LEG/	AL R	EPRESEN	TATIVES), to	insert h	ere in	parent	theses	s (filed	on
	Aug	ust 2	<u>20, 2018</u>	<u>3</u> and given	Applicat	ion No	. <u>16/</u> 1	05,1	<u>89</u> by	the
	follo	wing	J Office <u>L</u>	<u> IS – United St</u>	tates Pate	nt and	<u>Trader</u>	nark (Office)	this
	APPL	_ICA	ΓΙΟΝ's Α _Ι	pplication No	o., filing o	late, an	d Offic	e, wh	en kno	wn;
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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"));

Application No.	Filing Date	Office	

QQA	8.16.2018
Inventor's Signature	Date
Moshe ISRAEL	משה ישראל
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Michael Zeev BARGURY</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>SIMILARITY BASED APPROACH FOR CLUSTERING AND ACCELERATING MULTIPLE INCIDENTS INVESTIGATION</u>" ("APPLICATION"), which:

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	ASSI	GNE	E'S legal	representat	ive, Micr	osoft T	echno	ology	Licens	ing
	LLC,	One	Microso	ft Way, Redr	nond, Wa	ashingto	n 980)52 (A	SSIGN	EE'S
	LEGA	AL RI	EPRESEN [®]	ΓΑΤΙVES), to	insert h	iere in	paren	theses	s (filed	l or
	<u>Augi</u>	ust 2	<u>20, 2018</u>	and given	Applicat	ion No	. <u>16/</u>	105,1	<u>89</u> by	the
	follo	wing	Office <u>U</u>	S – United St	ates Pate	ent and T	Fradei	mark (Office)	this
	APPL	ICA ⁻	ΓΙΟΝ's Α _Ι	oplication No	o., filing o	late, and	d Offic	ce, wh	en kno	wn
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Application No.	Filing Date	Office	

RECORDED: 08/24/2018

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"));

	2018 Aug 16		
Inventor's Signature	Date		
Michael Zeev BARGURY	מיכאל זאב ברגורי		
Printed Name in English	Printed Name in Native Language		
	(if other than English)		