504752184 01/29/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4798912

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
VARUN JAIN	01/26/2018
DMITRI A. KLEMENTIEV	01/27/2018
IGOR SAKHNOV	01/26/2018
DINKO PAPAK	01/26/2018
LENINADEVI THANGAVEL	01/26/2018
MICHAIL ZERVOS	01/26/2018
DHRUV GAKKHAR	01/26/2018
KATERYNA BOIKOVSKA	01/26/2018

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:	15882102

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.comCorrespondent Name:MICROSOFT CORPORATION

Address Line 1: ONE MICROSOFT WAY

Address Line 4: REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER:	403433-US-NP
NAME OF SUBMITTER:	JEFF S. WEAVER
SIGNATURE:	/Jeffrey S. Weaver, #45,608/

PATENT REEL: 044758 FRAME: 0920

504752184

DATE SIGNED:	01/29/2018
Total Attachments: 16	
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PATENT REEL: 044758 FRAME: 0921

I <u>Varun JAIN</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>COMBINATION OF TECHNIQUES TO DETECT ANOMALIES IN MULTI-DIMENSIONAL TIME SERIES</u>" ("APPLICATION"), which:

\boxtimes	will	be	filed.	ASSIGNOR	hereby	authorize	s, and	reque	sts,
	ASSI	GNE	E'S legal	representat	ive, Micr	osoft Tech	nology	Licensi	ng,
	LLC,	One	Microso	ft Way, Redr	nond, Wa	shington 9	98052 (A	ASSIGNE	EE'S
	LEGA	AL R	EPRESEN ⁻	ΓΑΤΙVES), to	insert h	ere in par	enthese	s (filed	on
	<u>Janu</u>	ary ?	<u>29, 2018</u>	and given	Applicati	on No. <u>1</u>	<u>5/882,1</u>	<u>02</u> by	the
	follo	wing	g Office <u>U</u>	S – United St	ates Pate	ent and Tra	demark :	Office) 1	this
	APPI	_ICA ⁻	ΓΙΟΝ's Αι	oplication No	o., filing d	late, and O	ffice, wh	en kno	wn;

was filed on	and was given Application
No	by the following Office
66	99 _m

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

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")):

Jan-	01/26/2018
Inventor's Signature	Date
Varun JAIN	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: 403433-US-NP

I <u>Dmitri A. KLEMENTIEV</u> ("ASSIGNOR") am the original inventor or an original
joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent
application entitled "COMBINATION OF TECHNIQUES TO DETECT ANOMALIES
IN MULTI-DIMENSIONAL TIME SERIES " ("APPLICATION"), which:

\boxtimes	will	be	filed.	ASSIGNOR	hereby	authorizes	, and	reque	sts,
	ASSI	GNE	E'S legal	representat	tive, Micr	osoft Techr	ology	Licensi	ng,
	LLC,	One	Microso	ft Way, Redr	nond, Wa	เรhington 98	3052 (A	\SSIGNE	EE'S
	LEGA	AL R	EPRESENT	ΓΑΤΙVES), to	insert h	ere in pare	nthese	s (filed	on
	<u>Janu</u>	ary :	<u>29, 2018</u>	3 and given	Applicat	tion No. <u>15</u>	/882,1	<u>02</u> by	the
	follo	wing	office <u>U</u>	S – United St	<u>tates Pate</u>	ent and Trad	emark :	Office)	this
	APPI	ICA ⁻	ΓΙΟΝ's Αμ	oplication No	o., filing c	late, and Off	ice, wh	en kno	wn;

"	by the following Office
No	by the following Office
was filed on	and was given Application

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Application No.	Filing Date	Office	

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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

Dmitri A. KLEMENTIEV LAUTPUL KARLEHTLEB

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

MS Docket No.: 403433-US-NP

1	Igo	r SAKE	<u>("/</u>	ASSIGNO)R") am	the	origina	al invent	or or an	orig	inal joi	nt
inventor	of	subject	matter	("INVE	NTION")	disc	closed	and/or	claimed	in	a pate	nt
applicati	on e	ntitled "	COMBI	<u>NATIO</u>	N OF T	ECH	NIQUI	ES TO D	ETECT	<u>ANO</u>	MALIE	is
<u>IN MUL</u>	TI-L	<u> </u>	IONAL '	TIME S	ERIES	" ("AP	PLICAT	TION"), w	/hich:			

\boxtimes	will	be	filed.	ASSIGNOR	hereby	authorize	s, and	reque	sts,
	ASSI	GNE	E'S legal	representat	ive, Micr	osoft Tech	nology	Licensi	ng,
	LLC,	One	Microso	ft Way, Redr	nond, Wa	shington 9	98052 (A	ASSIGNE	EE'S
	LEGA	AL R	EPRESEN ⁻	ΓΑΤΙVES), to	insert h	ere in par	enthese	s (filed	on
	<u>Janu</u>	ary ?	<u>29, 2018</u>	and given	Applicati	on No. <u>1</u>	<u>5/882,1</u>	<u>02</u> by	the
	follo	wing	g Office <u>U</u>	S – United St	ates Pate	ent and Tra	demark :	Office) 1	this
	APPI	_ICA ⁻	ΓΙΟΝ's Αι	oplication No	o., filing d	late, and O	ffice, wh	en kno	wn;

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	2018/01/25
Inventor's Signature	Date
Igor SAKHNOV	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: 403433-US-NP

1	Din	iko P	<u>APA</u>	<u>\K</u> ("	ASSIG	NOR'	") am	the	origin	al invei	ntor o	r an	orig	jina	ıl joint
inventor	of	subje	ect	matte	er ("IN	IVEN	TION'	') di	sclosed	l and/	or cla	imed	in	a	patent
applicati	on e	ntitle	d " <u>C</u>	COM	BINA'	TION	OF	TEC	<u> JOINH</u>	JES TO	DETI	ECT	AN()M	<u>ALIES</u>
IN MUL	TI-D	IME	NSI(<u>(ANC</u>	L TIM	E SE	RIES	" ("A	APPLICA	TION")	, which	1:			

\boxtimes	will	be	filed.	ASSIGNOR	hereby	author	izes,	and	reque	sts,
	ASSI	GNE	E'S legal	representat	ive, Micr	osoft T	echno	logy I	icensi	ng,
	LLC,	One	Microso	ft Way, Redr	nond, Wa	ıshingto	n 980	52 (A	SSIGNE	EE'S
	LEGA	AL R	EPRESENT	ΓΑΤΙVES), to	insert h	ere in p	oarent	heses	(filed	on
	<u>Janu</u>	ary :	<u>29, 2018</u>	3 and given	Applicat	tion No.	. <u>15/8</u>	382 <u>,10</u>	<u>)2</u> by	the
	follo	wing	office <u>U</u>	S – United St	tates Pate	nt and 1	<u> Fraden</u>	<u>nark C</u>	ffice)	this
	APPI	.ICA	ΓΙΟΝ's Α <mark>ι</mark>	plication No	o., filing c	late, and	d Offic	e, whe	en kno	wn;

"	by the following Office
No	by the following Office
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tt			

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Inventor's Signature	04/26/18 Date
Dinko PAPAK	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: 403433-US-NP

I <u>LeninaDevi THANGAVEL</u> ("ASSIGNOR") am the original inventor or an original
joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent
application entitled "COMBINATION OF TECHNIQUES TO DETECT ANOMALIES
IN MULTI-DIMENSIONAL TIME SERIES " ("APPLICATION"), which:

M	WIII	be	filed.	ASSIGNOR	hereby	autho	rizes,	and	reque	sts,
	ASSI	GNE	E'S legal	representat	ive, Mici	rosoft	Techno	logy	Licensi	ing,
	LLC,	One	Microso	ft Way, Redr	nond, Wa	ashingt	on 980)52 (A	SSIGNI	EE'S
	LEGA	AL R	EPRESEN ⁻	ΓΑΤΙVES), to	insert h	iere in	parent	theses	(filed	on
	<u>Janu</u>	ary ?	<u>29, 2018</u>	and given	Applicati	ion No	. <u>15/8</u>	82,10	<u>)2</u> by	the
	follo	wing	office <u>U</u>	S – United St	ates Pate	nt and	Trader	<u>nark (</u>	Office)	this
	APPL	_ICA	ΓΙΟΝ's Α _Ι	oplication No	o., filing o	late, ar	nd Offic	e, wh	en kno	wn;

was filed on	and was given Application
No	by the following Office
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Application No.	Filing Date	Office	

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<u>LenihaDovi</u> THANGAVEL	1/26/2018
Inventor's Signature	Date
LeninaDevi THANGAVEL	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: 403433-US-NP

1_	Mic	chail ZI	ERVOS ('ASSIGN	OR") am	ı the	origin	al invent	tor or an	origir	ıal joint
inventor	of	subjec	t matter	("INVE	NTION")	discl	losed	and/or	claimed	in a	patent
application	on e	ntitled	" COMBI	NATIO	N OF T	ECH	NQUI	ES TO D	ETECT.	ANON	IALIES
IN MUL	TI-L	DIMEN:	SIONAL	TIME S	ERIES '	" ("API	PLICAT	ΓΙΟΝ"), w	hich:		

\boxtimes	will	be	filed.	ASSIGNOR	hereby	authoriz	es, and	reque	sts,
	ASSI	GNE	E'S legal	representat	ive, Micr	osoft Te	chnology	Licensi	ng,
	LLC,	One	Microso	ft Way, Redr	nond, Wa	ıshington	98052 (A	SSIGNE	EE'S
	LEGA	AL R	EPRESEN ⁻	ΓΑΤΙVES), to	insert h	ere in pa	arenthese	s (filed	on
	<u>Janu</u>	ary 2	<u>29, 2018</u>	and given A	Application	on No	15/882,1	<u>02</u> by	the
	follo	wing	office <u>U</u>	S – United St	ates Pate	ent and Tr	ademark :	Office) 1	this
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Application No.	Filing Date	Office	

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,,,,,		
		01/26/2018
	Inventor's Signature \	Date
	Michail ZERVOS	MIXAHA ZEPBOE
	Printed Name in English	Printed Name in Native Language
		(if other than English)

- I <u>Dhruv GAKKHAR</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>COMBINATION OF TECHNIQUES TO DETECT ANOMALIES IN MULTI-DIMENSIONAL TIME SERIES</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 lanuary 29, 2018 and given Application No. 15/882,102 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
66	99 _m

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	

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Dhuis	01/26/2018
Inventor's Signature	Date
Dhruv GAKKHAR	अन जनसङ
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: 403433-US-NP

I Kateryna BOIKOVSKA ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "COMBINATION OF TECHNIQUES TO DETECT ANOMALIES IN MULTI-DIMENSIONAL TIME SERIES " ("APPLICATION"), which:

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	LEG/	AL R	EPRESEN	TATIVES), to	insert h	ere in p	oarent	these	s (filed	on
	<u>Janu</u>	ary 2	<u> 29, 2018</u>	and given .	Applicati	on No.	<u> 15/8</u>	<u>82,10</u>	<u>12</u> by	the
	follo	wing	office <u>L</u>	<u>S – United St</u>	ates Pate	nt and T	rader	nark (Office)	this
	APPI	_ICA	ΓΙΟΝ's Α _Ι	oplication No	o., filing c	late, and	d Offic	e, wh	en kno	wn;
	was	filed	on	ê	ınd was g	given Ap	plicat	ion		
	No_		******************	by the fo	ollowing	Office				

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Application No.	Filing Date	Office	

RECORDED: 01/29/2018

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Kateryna Boikovska	01/26/18
Inventor's Signature	Date
Kateryna BOIKOVSKA	Катерина Бойковська
Printed Name in English	Printed Name in Native Language
	(if other than English)