03/13/2019 505372052

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RAHUL NIGAM	03/12/2019
ANDREI NICOLAE	03/06/2019
MARK RAYMOND GILBERT	03/08/2019
VINOD MUKUNDAN MENON	03/12/2019

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:	16351384	

CORRESPONDENCE DATA

Fax Number: (720)293-9822

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:**

Address Line 1: ONE MICROSOFT WAY

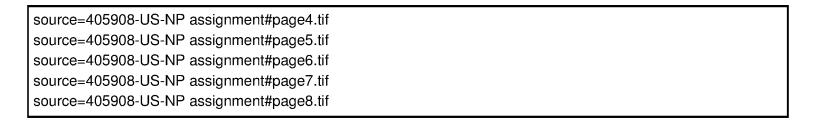
Address Line 4: **REDMOND, WASHINGTON 98052**

ATTORNEY DOCKET NUMBER:	405908-US-NP
NAME OF SUBMITTER:	DYLAN J. NELSON
SIGNATURE:	/Dylan J. Nelson/
DATE SIGNED:	03/13/2019

Total Attachments: 8

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> **PATENT** REEL: 048582 FRAME: 0460 505372052



PATENT REEL: 048582 FRAME: 0461

I <u>Rahul I</u>	<u>VIGAM</u> ("ASSI	GNOR") am th	ne original inven	torora	n original joint	inventor
of subject matte	er ("INVENTIO	N") disclosed	and/or claimed	in a pat	ent application	entitled
"AUTOMATED	DETECTION	OF CODE	REGRESSIONS	FROM	TIME-SERIES	DATA "
("APPLICATION"), which:					

X	will be	e filed.	ASSIGNOR	hereby	authoria	es, and	requests,
	ASSIGN	EE'S lega	ıl representat	ive, Mici	rosoft Te	chnology	Licensing,
	LLC., O	ne Micros	oft Way, Red	mond, W	ashingtor	1 98052 (ASSIGNEE'S
	LEGAL	REPRESE	NTATIVES), t	o insert	here in	parenth	eses (filed
	on	*********	and gi	ven Appl	ication No)	by
	the foll	owing Off	fice <u>US – Unit</u>	ed States	Patent an	<u>ıd Traden</u>	<u>nark Office</u>)
	this AP	PLICATIO	N's Applicati	on No.,	filing dat	e, and O	ffice, when
	known;						
	was file	ed on		and was	given App	olication	
	No		by the f	ollowing	Office		
	66 .xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx			87. 			

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	
	- 1		

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).

Roll volum	63)12)2019
Inventor's Signature	Date
Rahul NIGAM	
Printed Name in English	Printed Name in Native Language
	(if other than English)

inventor of s application ent	ubject matter ("I	INVENTION") disclosed a	inventor or an original joint nd/or claimed in a patent GRESSIONS FROM TIME-SERIES
A L C o tl	SSIGNEE'S legal r LC., One Microsof EGAL REPRESENT on he following Office	ASSIGNOR hereby authorepresentative, Microsoft of Way, Redmond, Washings ATIVES), to insert here and given Application of US – United States Patent of Application No., filing of	Technology Licensing, con 98052 (ASSIGNEE'S in parentheses (filed Noby and Trademark Office)
		and was given A by the following Office 	application
behalf of itself of acquiring, t priority, in the derived therefr United States,	and its successors the entire and excessors INVENTION and the rom, such as cont its territories, and OR hereby authoric	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	limited liability company, on is entitled to, and is desirous terest, including the right of ther applications and patents ole or in part, in and for the PLICATION DERIVATIVES")); EE'S LEGAL REPRESENTATIVES the following table for any
APPLICATION D	DERIVATIVES after	they are known;	
Application N	0.	Filing Date	Office

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Dhicola	March & 2019
Inventor's Signature	Date
Andrei NICOLAE	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I Mark Ray	mond GILBERT ("ASSIGNOR") am the original inventor or an original
joint inventor of	subject matter ("INVENTION") disclosed and/or claimed in a patent
application entitle	d "AUTOMATED DETECTION OF CODE REGRESSIONS FROM TIME-SERIES
DATA " ("APPLICA"	TION"), which:
⊠	L. Clad. ACCICAIND basely, avalanting and approach

XI.	will be	e filed.	ASSIGNOR	hereby	authoria	zes, and	requests,
	ASSIGN	EE'S lega	ıl representat	ive, Mici	osoft Te	chnology	Licensing,
	LLC., O	ne Micros	oft Way, Red	mond, W	ashingtor	1 98052 (<i>i</i>	ASSIGNEE'S
	LEGAL	REPRESE	NTATIVES), t	o insert	here in	parenth	eses (filed
	on		and gi	ven Appli	cation No)	by
	the foll	owing Off	fice <u>US – Unite</u>	<u>ed States</u>	Patent ar	<u>ıd Traden</u>	<u>ıark Office</u>)
	this AP	PLICATIO	N's Applicati	on No.,	filing dat	e, and O	ffice, when
	known;	,					
]	was file	ed on	;	and was !	given Apr	olication	
	No		by the f	ollowing	Office		
	15			n,			

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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Inventor's Signature

wu

Mark Raymond GILBERT

Printed Name in English

Printed Name in Native Language (if other than English)

I Vinod Mukundan MENON ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "AUTOMATED DETECTION OF CODE REGRESSIONS FROM TIME-SERIES DATA" ("APPLICATION"), which:

X	will be filed.	ASSIGNOR I	nereby autho	orizes, and	i requests,
	ASSIGNEE'S lega	ıl representativ	e, Microsoft	Technolog	y Licensing,
	LLC., One Micro	soft Way, Redm	ond, Washing	ton 98052	(ASSIGNEE'S
	LEGAL REPRESE	NTATIVES), to	insert here	in parenti	heses (filed
	on	and give	n Application	No	by
	the following Of	fice <u>US – United</u>	States Patent	and Trade	mark Office)
	this APPLICATIO	N's Application	ı No., filing c	date, and C	Office, when
	known;				
]	was filed on	an	d was given A	\pplication	
		by the fol			
	ss		55 _V		

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;

harana	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).

; Quenos	3/12/2019
Inventor's Signature	Date
Vinod Mukundan MENON	
Printed Name in English	Printed Name in Native Language
	(if other than English)