PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3156651

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
OLIVIER NANO	11/20/2014
IVO JOSE GARCIA DOS SANTOS	11/20/2014
ELDAR AKCHURIN	12/08/2014
LEV NOVIK	11/20/2014
TIHOMIR TARNAVSKI	12/02/2014
PANAGIOTIS PERIORELLIS	12/05/2014

RECEIVING PARTY DATA

Name:	MICROSOFT CORPORATION
Street Address:	ONE MICROSOFT WAY
City:	REDMOND
State/Country:	WASHINGTON
Postal Code:	98052

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14515382

CORRESPONDENCE DATA

Fax Number: (801)328-1707

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: 8015339800 Email: dso@wnlaw.com

Correspondent Name: WORKMAN NYDEGGER/MICROSOFT Address Line 1: 60 E. SOUTH TEMPLE, SUITE 1000 Address Line 4: SALT LAKE CITY, UTAH 84111

ATTORNEY DOCKET NUMBER:	13768.2454.1
NAME OF SUBMITTER:	ADRIAN J. LEE
SIGNATURE:	/Adrian J. Lee, Reg.# 42785/
DATE SIGNED:	12/19/2014

Total Attachments: 12

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PATENT | REEL: 034558 FRAME: 0930 503110042

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PATENT REEL: 034558 FRAME: 0931

PATENT ASSIGNMENT MS Docket No.: 355518.02
WN Docket No.: <u>13768.2454.</u>
I <u>Olivier Nano</u> ("ASSIGNOR") am the original inventor or an original join inventor of subject matter ("INVENTION") disclosed and/or claimed in a paten application entitled " <u>EVENT STREAM TRANSFORMATIONS</u> " ("APPLICATION"), which:
will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of the Law and Corporate Affairs Department, Microsoft Corporation, 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 <u>US - United States Patent and Trademark Office</u>) this APPLICATION's Application No., filing date, and Office, when known;
was filed on October 15, 2014 and was given Application No 14/515,382 by the following Office "US - United States Patent and Trademark Office";
Microsoft Corporation, a Washington Corporation, 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;

Page 1 of 2

Filing Date

Application No.

Office

MS Docket No.: 355518.02

WN Docket No.: <u>13768.2454.1</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"));

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	11/20/2014 Date
Olivier Nano	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT	ASSIGNMENT	MS Docket No.: 355518.02
	Wì	N Docket No.: <u>13768.2454.1</u>
I Ivo Iosé Carcia dos	Santos ("ASSICNOR") an	n the original inventor or an
		disclosed and/or claimed in a
		DRMATIONS" ("APPLICATION")
which:	EVENT STREAM TOMOSTO	ATTECATION ,
WITCH.		
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	ASSIGNOR hereby auth	•
	representatives, of the La	·
Department, Mic	rosoft Corporation, One M	icrosoft Way, Redmond,
Washington 980	52 (ASSIGNEE'S LEGAL REPR	RESENTATIVES), to insert
here in parent	heses (filed on	and given
Application No	by the follo	wing Office <u>US – United</u>
States Patent	and Trademark Office)	this APPLICATION's
	filing date, and Office, whe	
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oxtimes was filed on Octo	ober 15, 2014 and was give	n Application
No <u>14/515,382</u>	_ by the following Office " $\underline{\sf l}$	<u> JS – United States</u>
Patent and Trade	mark Office";	
Microsoft Corporation.	a Washington Corporatio	n, on behalf of itself and its
·	<u> </u>	is desirous of acquiring, the
-		g the right of priority, in the
INVENTION and the APPLICA	·	• • •
therefrom, such as continuing	• •	· ·
States, its territories, and all for	oreign countries (APPLICA)	ION DERIVATIVES));
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ASSIGNOR hereby	· · · · · · · · · · · · · · · · · · ·	uests, ASSIGNEE'S LEGAL
REPRESENTATIVES to insert	, ,	-
following table for any APPLIC		
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Page 1 of 2

MS Docket No.: <u>355518.02</u>

WN Docket No.: <u>13768.2454.1</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"));

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 Ivo José Garcia dos Santos	Nov. 20. 2014 Date
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT	MS Docket No.: <u>355518.02</u>
v	VN Docket No.: <u>13768.2454.1</u>
I <u>Eldar Akchurin</u> ("ASSIGNOR") am the origina	al inventor or an original joint
inventor of subject matter ("INVENTION") disclosed	l and/or claimed in a patent
application entitled "EVENT STREAM TRANSFORMATION	<u>IS</u> " ("APPLICATION"), which:
<u>_</u>	
☐ will be filed. ASSIGNOR hereby au	thorizes, and requests,
ASSIGNEE'S legal representatives, of the l	aw and Corporate Affairs
Department, Microsoft Corporation, One	Microsoft Way, Redmond,
Washington 98052 (ASSIGNEE'S LEGAL RE	PRESENTATIVES), to insert
here in parentheses (filed on	and given
Application No by the fo	llowing Office <u>US – United</u>
States Patent and Trademark Offic	<u>e)</u> this APPLICATION's
Application No., filing date, and Office, w	hen known;
was filed on October 15, 2014 and was gi	ven Application
No. 14/515 382 by the following Office	"US - United States

Microsoft Corporation, a Washington Corporation, 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"));

Patent and Trademark Office";

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.: <u>355518.02</u>

WN Docket No.: <u>13768.2454.1</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"));

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).

Milwano	8 December 2014	
Inventor's Signature	Date	
Eldar Akchurin	FAGAR ARYPUH	
Printed Name in English	Printed Name in Native Language	
	(if other than English)	

PATENT ASSIGNMENT	MS Docket No.: <u>355518.02</u>
	WN Docket No.: <u>13768.2454.1</u>
I <u>Lev Novik</u> ("ASSIGNOR") am the original inv subject matter ("INVENTION") disclosed and/or cla " <u>EVENT STREAM TRANSFORMATIONS</u> " ("APPLICATIO	imed in a patent application entitled
will be filed. ASSIGNOR hereby ASSIGNEE'S legal representatives, of of Department, Microsoft Corporation, of Washington 98052 (ASSIGNEE'S LEGA) here in parentheses (filed on	the Law and Corporate Affairs One Microsoft Way, Redmond, L REPRESENTATIVES), to insert and given the following Office <u>US - United</u> Office) this APPLICATION's
was filed on October 15, 2014 and was No 14/515,382 by the following O Patent and Trademark Office":	
Microsoft Corporation, a Washington Corp	

Microsoft Corporation, a Washington Corporation, 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

MS Docket No.: 355518.02

WN Docket No.: <u>13768.2454.1</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")):

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	11/20/2014 Date	
Lev Novik		
Printed Name in English	Printed Name in Native Language (if other than English)	

MS Docket No.: 355518.02 PATENT ASSIGNMENT WN Docket No.: 13768.2454.1 I Tihomir Tarnavski ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "EVENT STREAM TRANSFORMATIONS" ("APPLICATION"), which: will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of the Law and Corporate Affairs Department, Microsoft Corporation, 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 <u>US - United</u> States Patent and Trademark Office) this APPLICATION's Application No., filing date, and Office, when known; was filed on October 15, 2014 and was given Application No 14/515,382 by the following Office "US - United States Patent and Trademark Office"; Microsoft Corporation, a Washington Corporation, 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")); ASSIGNEE'S LEGAL requests. hereby authorizes. and ASSIGNOR 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

MS Docket No.: 355518.02

WN Docket No.: 13768.2454.1

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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).

12/2/2014

Tihomir Tarnavski

Printed Name in English

Signature

TUXOMUP TEPHABCKU

Printed Name in Native Language

(if other than English)

PATE	NT ASSIGNMENT	MS Docket No.: <u>355518.02</u>		
		WN Docket No.: <u>13768.2454.</u>		
inventor of subject matte	er ("INVENTION") disclo	original inventor or an original join sed and/or claimed in a paten <u>IONS</u> " ("APPLICATION"), which:		
Department, M Washington 98 here in pare Application No States Paten Application No	gal representatives, of the Microsoft Corporation, On 18052 (ASSIGNEE'S LEGAL entheses (filed on by the tand Trademark Co., filing date, and Office			
Patent and Tra	demark Office";			
successors and assigns ("A entire and exclusive rights INVENTION and the APPLI	SSIGNEE"), is entitled to , title and interest, inc CATION (and all other ing applications, in who	oration, on behalf of itself and it on and is desirous of acquiring, the liuding the right of priority, in the applications and patents derived ble or in part, in and for the United LICATION DERIVATIVES"));		
ASSIGNOR hereby REPRESENTATIVES to inser		requests, ASSIGNEE'S LEGA filing date, and Office into the		
following table for any APPLICATION DERIVATIVES after they are known;				
Application No.	Filing Date	Office		

MS Docket No.: 355518.02

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Panagiotis Periorellis

Printed Name in English

MANATIOTHE MEPIOREANHE

Printed Name in Native Language (if other than English)

Page 2 of 2