504221735 02/09/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4268412

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JAMIE DANIEL JOSEPH SHOTTON	01/15/2014
TOBY SHARP	11/11/2013
PUSHMEET KOHLI	11/11/2013
REINHARD SEBASTIAN BERNHARD NOWOZIN	11/11/2013
JOHN MICHAEL WINN	11/11/2013
ANTONIO CRIMINISI	11/11/2013

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:	15338050

CORRESPONDENCE DATA

Fax Number: (509)323-8979

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: 509-324-9256

Email: phillip.cameron@leehayes.com

LEE & HAYES, PLLC **Correspondent Name:**

601 W. RIVERSIDE AVENUE Address Line 1:

Address Line 2: **SUITE 1400**

Address Line 4: SPOKANE, WASHINGTON 99201

ATTORNEY DOCKET NUMBER:	MS6-0317USC1
NAME OF SUBMITTER:	PHILLIP A. CAMERON
SIGNATURE:	/Phillip A. Cameron/
DATE SIGNED:	02/09/2017

PATENT REEL: 041219 FRAME: 0919 504221735

Total Attachments: 12 source=339952-US-CNT_Parent_Assignment_Shotton#page1.tif source=339952-US-CNT_Parent_Assignment_Shotton#page2.tif source=339952_US-CNT_Parent_Assignment_SHARP#page1.tif source=339952_US-CNT_Parent_Assignment_Kohli#page1.tif source=339952_US-CNT_Parent_Assignment_Kohli#page2.tif source=339952_US-CNT_Parent_Assignment_Nowozin#page1.tif source=339952_US-CNT_Parent_Assignment_Nowozin#page2.tif source=339952_US-CNT_Parent_Assignment_Winn#page2.tif source=339952_US-CNT_Parent_Assignment_Winn#page1.tif source=339952_US-CNT_Parent_Assignment_Winn#page2.tif source=339952-US-CNT_Parent_Assignment_Criminisi#page1.tif source=339952-US-CNT_Parent_Assignment_Criminisi#page2.tif

PATENT REEL: 041219 FRAME: 0920

PATENT ASSIGNMENT MS Docket No.: 339952.01

original joint	inventor of subjection entitled "MEI	ct matter ("INVENTION")	m the original inventor or an disclosed and/or claimed in a G DIRECTED ACYCLIC GRAPHS"
, 1 1 1	ASSIGNEE'S legal Department, Micr Washington 9805 here in parenth Application No	ASSIGNOR hereby authrepresentatives, of the La osoft Corporation, One M (ASSIGNEE'S LEGAL REPReses (filed on) Job	w and Corporate Affairs icrosoft Way, Redmond, tESENTATIVES), to insert and given by the following) this APPLICATION's
		mber 13, 2013 and was g e following Office " <u>United</u> ';	
successors an entire and ex INVENTION at therefrom, su	nd assigns ("ASSIC clusive rights, the nd the APPLICAT ch as continuing	ONEE"), is entitled to, and tle and interest, including TON (and all other app	n, on behalf of itself and its I is desirous of acquiring, the g the right of priority, in the lications and patents derived in part, in and for the United TION DERIVATIVES"));
REPRESENTAT	IVES to insert ti	•	uests, ASSIGNEE'S LEGAL g date, and Office into the
Application No		Filing Date	Office

Page 1 of 2

PATENT ASSIGNMENT MS Docket No.: 339952.01

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"));

<u> </u>	(5/1/14
Inventor's Signature	Date
JAME SHOTTON.	
Printed Name in English	Printed Name in Native Language (if other than English)
Jamie Daniel Joseph SHOTTON	

I Toby SHARP ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "MEMORY FACILITATION USING DIRECTED ACYCLIC GRAPHS" ("APPLICATION"), which:

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	Department, Microsoft Corporation, One Microsoft Way, Redmond										mond,	
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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 in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, 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	

Inventor's Signature	Date 11 November 2013
Printed Name in English Toby SHARP	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

("APPLICATION"), which:

I Pushmeet KOHLI ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "MEMORY FACILITATION USING DIRECTED ACYCLIC GRAPHS"

MS Docket No.: 339952.01

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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 in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, 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

Page 1 of 2

PATENT ASSIGNMENT	MS Do	cket No.	.: 33995	2.01

Inventor's Signature	Date // - Nov - 2.013
Printed Name in English Pushmeet KOHLI	Printed Name in Native Language (if other than English)

I Reinhard Sebastian Bernhard NOWOZIN ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "MEMORY FACILITATION USING DIRECTED ACYCLIC GRAPHS" ("APPLICATION"), which:

\boxtimes	will	bе	filed.	ASSIGNOR	hereby	au	thorize	es, an	d re	quests,
	ASSI	GNE	E'S lega	representati	ves, of t	he L	.aw an	d Corp	orate	Affairs
	Depa	artm	ent, Mic	rosoft Corpo	ration, C)ne	Micros	oft Wa	y, Rec	lmond,
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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 in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, 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	

Inventor's Signature Lebastic Vasz	Date Mar 2013
Printed Name in English Reinhard Sebastian Bernhard NOWOZIN	Printed Name in Native Language (if other than English)

MS Docket No.: 339952.01

I John Michael WINN ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "MEMORY FACILITATION USING DIRECTED ACYCLIC GRAPHS" ("APPLICATION"), which:

\bowtie	will be	e filed.	ASSIGNOR	hereby	authoriz	es, and	requests,
	ASSIGN	EE'S legal	representati	ves, of t	he Law ar	nd Corpor	ate Affairs
	Departi	ment, Mici	rasaft Corpo	ration, C	ne Micro	soft Way,	Redmond,
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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 in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES")):

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Application No.	Filling Date	Office	

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Inventor's Signature	Date
2	71 mov 2013
Printed Name in English	Printed Name in Native Language
John Michael WINN	(if other than English)

PATENT ASSIGNMENT

I Antonio CRIMINISI ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "MEMORY FACILITATION USING DIRECTED ACYCLIC GRAPHS" ("APPLICATION"), which:

MS Docket No.: 339952.01

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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 in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

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Application No.	Filing Date	Office

PATENT ASSIGNMENT	MS Docket No.: 339952.01	

Inventor's Signature	Date
4 x 6 Co ==================================	1/11/2013
Printed Name in English	Printed Name in Native Language
Antonio CRIMINISI	(if other than English)