PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4862600

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MICHAEL JOHN NOVAK	03/12/2018
RAJU JAIN	03/07/2018
JOHN HEINRICH LUEDERS	03/08/2018
ROBERT PAUL ST. PIERRE	03/08/2018
CALVIN TONINI	03/08/2018

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:	15919015

CORRESPONDENCE DATA

Fax Number:

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.

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Address Line 4: BELLEVUE, WASHINGTON 98004

ATTORNEY DOCKET NUMBER:	MS1-9159US
NAME OF SUBMITTER:	NOEMI TOVAR
SIGNATURE:	/NOEMI TOVAR/
DATE SIGNED:	03/12/2018
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Total Attachments: 10

PATENT REEL: 045569 FRAME: 0196

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PATENT REEL: 045569 FRAME: 0197

Client Docket No.: 403577-US-NP Attorney Docket No.: MS1-9159US

inventor of subject	<u>nOVAK</u> ("ASSIGNOR") an matter ("INVENTION") " <u>LOCATING FILES USI</u> ATION"), which:	disclosed and/or cla	imed in a patent
ASSIGN LLC., (ASSIGI parenti No.: <u>Patent</u>	e filed. ASSIGNOR he IEE'S legal representative One Microsoft Way, NEE'S LEGAL REPRESEI neses (filed on March 12 15/919,015 by the fol and Trademark Office"; to ate, and Office, when kno	e, Microsoft Technolog Redmond, Washing NTATIVES), to inser , ²⁰¹⁸ and given Ilowing Office <u>"US - L</u> his APPLICATION's App	gy Licensing, iton 98052 It here in Application United States
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No.:	ed on by th Patent and Trademark Of	ne following Office " <u>US</u>	
behalf of itself and desirous of acquirin right of priority, in t patents derived ther	hnology Licensing, LLC, a Its successors and ass g, the entire and exclusi he INVENTION and the AF efrom, such as continuin ates, its territories, an	igns ("ASSIGNEE"), is ve rights, title and int PLICATION (and all oth g applications, in who	entitled to, and is erest, including the er applications and le or in part, in and
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Client Docket No.: 403577-US-NP Attorney Docket No.: MS1-9159US

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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).

John NOVAK

Printed Name in English

Oute

Printed Name in Native Language
(if other than English)

Client Docket No.: 403577-US-NP Attorney Docket No.: MS1-9159US

I <u>Raju 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 "LOCATING FILES USING A DURABLE AND UNIVERSAL FILE IDENTIFIER" ("APPLICATION"), which:

X	will be filed.	ASSIGNOR	hereby	authorize	s, and	requests,
	ASSIGNEE'S legal	representati	ve, Micr	osoft Tech	inology L	icensing,
	LLC., One Mic	rosoft Way	, Redn	nond, Wa	shington	98052
	(ASSIGNEE'S LEC			/ES), to	insert	here in
	parentheses (filed					plication
	No.: 15/919,015	by the f	ollowing	ງ Office <u>"ປ</u>	<u>S – Unite</u>	ed States
	Patent and Trader	mark Office";	this AP	PLICATION'	's Applica	ition No.,
	filing date, and O	ffice, when k	nown;			
	was filed on		and \	was given A	\pplicatio	n
	No.:	by	the follo	owing Offic	e " <u>US – U</u> I	<u>nited</u>
	States Patent and		<u>)ffice</u> ";			
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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"));

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;

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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

Raju JAIN

Printed Name in English

-040X20.0

Date

राज जेन

Printed Name in Native Language

(if other than English)

Client Docket No.: 403577-US-NP Attorney Docket No.: MSI-9159US

I John Heinrich LUEDERS ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "LOCATING FILES USING A DURABLE AND UNIVERSAL FILE IDENTIFIER" ("APPLICATION"), which:

	ASSIGNEE'S legal LLC., One Mi (ASSIGNEE'S LE parentheses (file No.: 15/919,015 Patent and Trade	representative, Microsoft Way, Re GAL REPRESENTA [*] Ed on <u>March 12, 2018</u> — by the followi	y authorizes, and requests, icrosoft Technology Licensing, dmond, Washington 98052 TIVES), to insert here in and given Application of Grice "US - United States APPLICATION's Application No.,
	No.:		d was given Application Ilowing Office " <u>US - United</u> ;
behalf of its desirous of a right of prior patents deriv for the Uni DERIVATIVES	elf and its succenticquiring, the entification its	essors and assigns ire and exclusive ri ION and the APPLIC th as continuing ap territories, and a	shington limited liability company, or "ASSIGNEE"), is entitled to, and inghts, title and interest, including the ATION (and all other applications and plications, in whole or in part, in and II foreign countries ("APPLICATION")  requests, ASSIGNEE'S LEGA
			o., filing date, and Office Into the after they are known;
Application N	······	Filing Date	Office

Client Docket No.: 403577-US-NP Attorney Docket No.: MSI-9159US

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Inventor's Signature Date

John Heinrich LUEDERS

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

Client Docket No.: 403577-US-NP Attorney Docket No.: MS1-9159US

I <u>Robert Paul ST. PIF</u>	<u>(RRE</u> ("ASSIGNOR") am 1	he original inventor or a	ın original
joint inventor of subject m	atter ("INVENTION") dis	closed and/or claimed i	n a pateni
application entitled "LOC/	<u> TING FILES USING A</u>	DURABLE AND UNIVE	RSAL FILE
IDENTIFIER" ("APPLICATION"	), which:		
ASSIGNEE'S lead LLC., One (ASSIGNEE'S parentheses (10 15/919,010) Patent and Tra	gal representative, Microsoft Way, Redr LEGAL REPRESENTATI Filed on <u>March 12, 2018</u> 5 by the following	authorizes, and requences osoft Technology Licens nond, Washington 98 (ES), to insert here and given Application PLICATION's Application 1	ing, 052 in tion ates
No.:	and r by the foliond Trademark Office";	was given Application owing Office " <u>US - United</u>	
Microsoft Technology behalf of itself and its sudesirous of acquiring, the ending of priority, in the INVE patents derived therefrom, for the United States, it DERIVATIVES"));	ccessors and assigns ( intire and exclusive rigi NTION and the APPLICA such as continuing appl	nts, title and interest, inc FION (and all other applic ications, in whole or in p	to, and is luding the ations and art, in and
ASSIGNOR hereby	authorizes, and	requests, ASSIGNEE'S	; LEGAL
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Client Docket No.: 403577-US-NP Attorney Docket No.: MS1-9159US

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Inventor's Signature

Robert Paul ST. PIERRE

Printed Name in English

Date

Printed Name in Native Language

(if other than English)

Client Docket No.: 403577-US-NP Attorney Docket No.: MS1-9159US

		inventor or an original joint
inventor of subject matter (		
application entitled "LOCATIN	NG FILES USING A DUE	RABLE AND UNIVERSAL FILE
IDENTIFIER" ("APPLICATION"), w	hich:	
ASSIGNEE'S legal LLC., One Mic (ASSIGNEE'S LEC parentheses (filed No.: 15/919,015 Patent and Trader filing date, and Of  was filed on No.:	ASSIGNOR hereby auth representative, Microsoft rosoft Way, Redmond, GAL REPRESENTATIVES), don March 12, 2018 by the following Offinark Office"; this APPLICA ffice, when known;  by the following  by the following	Technology Licensing, Washington 98052 to insert here in and given Application ce <u>"US - United States</u> TION's Application No.,
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behalf of itself and its success desirous of acquiring, the entire right of priority, in the INVENTI patents derived therefrom, such for the United States, its to DERIVATIVES"));	ssors and assigns ("ASSIG re and exclusive rights, th ON and the APPLICATION of h as continuing application	tle and interest, including the (and all other applications and ns, in whole or in part, in and
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Calvay Trumi Inventor's Signature	March 8, 2018 Date
Calvin TONINI	
Printed Name in English	Printed Name in Native Language (if other than English)