## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5706629

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
ANDREW C. NG	05/09/2019
MARK WADE HENINGER	05/10/2019
SMITHA BHAT BHARADWAJ	08/16/2019
ALAN JINSOO YU	05/12/2019
ARIJIT CHATTERJEE	05/13/2019

#### **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:	16414620

#### **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.

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Email: usdocket@microsoft.com **Correspondent Name:** MICROSOFT CORPORATION

Address Line 1: ONE MICROSOFT WAY

Address Line 4: REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER:	DOCKET NUMBER: 406369-US-NP	
NAME OF SUBMITTER:	VLADIMIR A. KOZYREV	
SIGNATURE:	/VLADIMIR A. KOZYREV/	
DATE SIGNED:	09/06/2019	

**Total Attachments: 10** 

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**PATENT** REEL: 050298 FRAME: 0684 505659824

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PATENT REEL: 050298 FRAME: 0685

I <u>Andrew C. NG</u> ("ASSIGNOR") am the original inventor or an original jo	oint
inventor of subject matter ("INVENTION") disclosed and/or claimed in a pate	ent
application entitled "SCOPED VIEW OF FILE TREE" ("APPLICATION"), which:	
will be filed ASSICNOR bereby authorizes and requests	

MS Docket No.: 406369-US-NP

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	LLC,	One	Micros	soft Way, Red	dmond	, Wash	hingto	n 980	52 (AS	SIG	NEE'S
	LEGA	L RE	PRESE	NTATIVES), to	o insert	here	in par	enthe	ses (fil	led	on
	May	16,	2019	and giv	en App	licatio	on No.	16/4	14,620	)	by
	the f	ollov	wing O	ffice							) this
	APPL	ICA7	ΓΙΟΝ's	Application	No.,	filing	date	, and	Offic	e,	wher
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	was	filed	on		and w	as giv	en Ap	plicati	ion No		
	hv th	e fo	llowing	Office "	-		•	-		".	

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

MS Docket No.: 406369-US-NP

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"));

anni 1/4	May 9th, 2019
Inventor's Signature	Date
Andrew C. NG	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNM	ENT M	S Docket No.: <u>406369-U</u>	<u>S-NP</u>
I <u>Mark Wade HENING</u> inventor of subject matte application entitled " <u>SCOPE</u> I	r ("INVENTION") d		d in a patent
ASSIGNEE'S le LLC, One Micr LEGAL REPRES	gal representative, osoft Way, Redmond ENTATIVES), to inser	eby authorizes, and i Microsoft Technology L I, Washington 98052 (AS t here in parentheses (fil plication No. 16/414,620	icensing, SIGNEE'S led on
the following	Office	filing date, and Offic	) this
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Microsoft Technology behalf of itself and its sudesirous of acquiring, the right of priority, in the INVE patents derived therefrom, for the United States, in DERIVATIVES"));	ccessors and assigentire and exclusive INTION and the APPL such as continuing	rights, title and interes ICATION (and all other a applications, in whole or	itled to, and is t, including the applications and r in part, in and
ASSIGNOR hereby REPRESENTATIVES to inser following table for any APPL	t the Application	·	Office into the
Application No.	Filing Date	Office	

MS Docket No.: <u>406369-US-NP</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")):

1/1	5-10-19
inventor's Signature	Date
Mark Wade HENINGER	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: 406369-US-NP

	/ENTION") disclosed	i the original inventor or an original joint and/or claimed in a patent application DN"), which:
legal representativ Way, Redmono REPRESENTATIV	re, Microsoft Technolog d. Washington 98 JES) to insert here in c	zes, and requests, ASSIGNEE'S gy Licensing, LLC, One Microsoft 3052 (ASSIGNEE'S LEGAL parentheses (filed on tion No by the
Application No., fil	ing date, and Office, w	ition Noby the) this APPLICATION's hen known;
was filed on <u>May</u> the following Office		n Application No <u>16/414,620</u> by
of itself and its successors an acquiring, the entire and exclusi INVENTION and the APPLICAT	d assigns ("ASSIGNE ve rights, title and intel ION (and all other app in whole or in part, in	ngton limited liability company, on behalf E"), is entitled to, and is desirous of rest, including the right of phority, in the dications and patents derived therefrom, and for the United States, its territories, S"));
REPRESENTATIVES to insent the	ie Application No., filing	requests, ASSIGNEE'S LEGAL g date, and Office into the following table own:
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"));

MS Docket No.: 406369-US-NP

Inventor's Signature

Date 8 | 16 | 2019

Smitha Bhat BHARADWAJ Printed Name in English

Printed Name in Native Language

(if other than English)

subject matte	er ("INVENTION")		ai inventor or an originar jo almed in a patent applio hich:	
	legal representative Way, Redmond REPRESENTATIV May 16, 2019 following Office	e, Microsoft Technolo , Washington 9: ES), to insert here in and given Applic	parentheses (filed on ation No. 16/414,620 ) this APPLICA	crosoft LEGAL bv the
	was filed on	and was giv	en Application No	
INVENTION a such as contil and all foreign ASSIC	and the APPLICATION  nuing applications, in countries ("APPLICATION INCOME.)	ON (and all other apport of the control of the cont	rest, including the right of plications and patents deri- and for the United States S")); requests, ASSIGNEI g date, and Office into the	ved therefrom, , its territories, E'S LEGAL
for any APPLI	CATION DERIVATI	VES after they are kn	own;	, o , o , o , o , o , o , o , o , o , o
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MS Docket No.: 406369-US-NP

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MS Docket No.: 406369-US-NP

Inventor's Signature

alm ff.

Date 5-12-19

Alan Jinsoo YU Printed Name in English

Alm Jirson Yu

Printed Name in Native Language (if other than English)

MS Docket No.: 406369-US-NP

inventor of subject matter application entitled "SCOPED V will be filed.  ASSIGNEE'S legal LLC, One Microsoft LEGAL REPRESEN May 16, 2019 the following Office applications of the following Office applications of the following Office applications applications of the following Office applications application applications applicati	("INVENTION") disclo "IEW OF FILE TREE" ("A ASSIGNOR hereby representative, Mic oft Way, Redmond, W TATIVES), to insert he and given Applica- lice	original inventor or an original josed and/or claimed in a pa APPLICATION"), which: authorizes, and requests, rosoft Technology Licensing, lashington 98052 (ASSIGNEE'S ere in parentheses (filed on ation No. 16/414,620 by this ling date, and Office, when	
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behalf of itself and its succe desirous of acquiring, the ent right of priority, in the INVENT patents derived therefrom, su	essors and assigns ire and exclusive rig TON and the APPLICA ch as continuing app	hington limited liability company ("ASSIGNEE"), is entitled to, an hts, title and interest, including NTION (and all other applications dications, in whole or in part, in foreign countries ("APPLICAT	d is the and and
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Application No.	Filing Date	Office	
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MS Docket No.: 406369-US-NP

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).

Asijit avattajia Inventor's Signature

Date

Arijit CHATTERJEE

Printed Name in English

Printed Name in Native Language

(if other than English)