504432614 06/27/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DIMITRIOS VYTINIOTIS	06/15/2017
MANUEL SILVERIO DA SILVA COSTA	06/22/2017
KAPIL VASWANI	06/02/2017
MATTHEW JOHN PARKINSON	03/23/2017
PIYUS KUMAR KEDIA	03/23/2017

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15624687

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: PLANO, TEXAS 75093

ATTORNEY DOCKET NUMBER:	401377-US-NP
NAME OF SUBMITTER:	HOLLI L. TEMPLETON
SIGNATURE:	/Holli L. Templeton/
DATE SIGNED:	06/27/2017
	•

Total Attachments: 10

PATENT REEL: 042824 FRAME: 0786



PATENT REEL: 042824 FRAME: 0787

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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Application No.	Filing Date	Office	

(Jun objus pina)	IS June 17
Inventor's Signature	Date
Dimitrios VYTINIOTIS	DHMHTP102 BYTIMETHS
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT AS	SIGNMENT	MS Docket No.:	<u>401377-US-NP</u>
original join patent appl	t inventor of subjec	t matter ("INVENTION") d IANUAL MEMORY MA	n the original inventor or ar isclosed and/or claimed in a NAGEMENT USING LAZY
	ASSIGNEE'S legal r LLC., One Microsof LEGAL REPRESENTA and given Applicat	ASSIGNOR hereby author epresentative, Microsoft tway, Redmond, Washing ATIVES), to insert here in ion No	Technology Licensing, ton 98052 (ASSIGNEE'S parentheses (filed on by the following Office
\boxtimes		<u>5, 2017</u> and was given Ap ie following Office " <u>Unit</u>	
behalf of itse of acquiring priority, in the derived there	olf and its successors the entire and exc ne INVENTION and the efrom, such as cont	s and assigns ("ASSIGNEE") clusive rights, title and in he APPLICATION (and all o inuing applications, in wh	I limited liability company, or is entitled to, and is desirous terest, including the right oo ther applications and patents note or in part, in and for the PLICATION DERIVATIVES"));
to insert the		iling date, and Office into	EE'S LEGAL REPRESENTATIVES the following table for any
Application		Filing Date	Office
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Page 1 of 2

PATENT REEL: 042824 FRAME: 0790 MS Docket No.:

401377-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"));

Manuel Streway Sil, Etc	22 June 2017
Inventor's Signature	Date
Manuel Silverio da Silva COSTA	
Printed Name in English	Printed Name in Native Language
	(if other than English)

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

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	06/02/2017 Date
Kapil VASWANI	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT MS Docket No.: 401377-GB-NP

original joint	t inventor of subjectation entitled " <u>M/</u>	ect matter ("INVENTION") o	the original inventor or an disclosed and/or claimed in a MENT USING LAZY PATCHING"
	ASSIGNEE'S legal LLC., One Mic (ASSIGNEE'S LEC parentheses (filed No. 15/6 Office United St	ASSIGNOR hereby auth representative, Microsoft rosoft Way, Redmond, GAL REPRESENTATIVES), don June 15, 2017 24,687 by ates Patent & Trademark liling date, and Office, whe	Technology Licensing, Washington 98052 to insert here in and given Application the following) this APPLICATION's
		and was given by the following Office	
behalf of its desirous of a right of prior patents deriv	elf and its succe acquiring, the enti ity, in the INVENTI red therefrom, suc ited States, its t	ssors and assigns ("ASSI re and exclusive rights, ti ON and the APPLICATION h as continuing applicatio	n limited liability company, on GNEE"), is entitled to, and is tle and interest, including the (and all other applications and ns, in whole or in part, in and gn countries ("APPLICATION
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Page 1 of 2

	TOOLOI TITLLI	MS Docket No.:	401377-GB-NP

Hading Alian	23/ Marh / 2017
Inventor's Signature	Date
Matthew John PARKINSON	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT

			original inventor or an origina
			ed and/or claimed in a patent
application	entitled "MANUA	AL MEMORY MANAGEME	ENT USING LAZY PATCHING
("APPLICATIO	ON"), which:		
\boxtimes	will be filed.	ASSIGNOR hereby aut	horizes, and requests,
	ASSIGNEE'S legal	representative, Microsof	t Technology Licensing,
	LLC., One Mi	crosoft Way, Redmond	l, Washington 98052
	(ASSIGNEE'S LE	GAL REPRESENTATIVES),	to insert here in
	parentheses (file	d on <u>June 15, 2017</u>	and given Application
		624,687 by	
	Office United S	tates Patent & Trademark	_) this APPLICATION's
	Application No.,	filing date, and Office, who	en known;
	was filed on	and was given	Application
	No	by the following Offic	e:
	α <u> </u>		
behalf of its desirous of a right of prior patents deriv for the Uni DERIVATIVES	elf and its succe acquiring, the enti ity, in the INVENTI red therefrom, suc ted States, its "));	essors and assigns ("ASSI ire and exclusive rights, to ION and the APPLICATION in as continuing application territories, and all fore	on limited liability company, on IGNEE"), is entitled to, and is itle and interest, including the (and all other applications and ons, in whole or in part, in and ign countries ("APPLICATION
ASSIGN	NOR hereby	authorizes, and req	uests, ASSIGNEE'S LEGAL
REPRESENTAT	ΓIVES to insert t	he Application No., filin	g date, and Office into the
following tab	le for any APPLICA	TION DERIVATIVES after t	hey are known;
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Page 1 of 2

MS Docket No.: 401377-GB-NP

PATENT ASSIGN	IMENT	MS Docket No.:	401377-GB-NI

Piyus kumer kedia	23 March 2017	
Inventor's Signature	Date पीयुष कुमार केडिया	
Piyus KUMAR KEDIA		
Printed Name in English	Printed Name in Native Language	
	(if other than English)	