504383126 05/24/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JEREMY HALDEN FOWERS	05/23/2017
MING GANG LIU	05/23/2017
KALIN OVTCHAROV	05/19/2017
STEVEN KARL REINHARDT	05/19/2017
ERIC SEN CHUNG	05/21/2017

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:	15603934

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: MSFT-01949US0 NAME OF SUBMITTER: JAMES TROSINO **SIGNATURE:** /James Trosino/ **DATE SIGNED:** 05/24/2017

Total Attachments: 10

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PATENT REEL: 042498 FRAME: 0090

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PATENT REEL: 042498 FRAME: 0091

l <u>Jeremy Halden FOWERS</u> ("A	SSIGNOR") am the origina	al inventor or an original joint
inventor of subject matter ("IN"	VENTION") disclosed a	nd/or claimed in a patent
application entitled "MULTIFUNCT	ION VECTOR PROCESSOR	CIRCUITS" ("APPLICATION"),
which:		
oxtimes will be filed. AS	SSIGNOR hereby autho	rizes, and requests,
ASSIGNEE'S legal rep	presentative, Microsoft ⁻	Technology Licensing,
LLC, One Microsoft W	Vay, Redmond, Washingt	on 98052 (ASSIGNEE'S
	TIVES), to insert hereand given Application	
	<u> JS – United States Patent</u>	
	Application No., filing d	
known;	, 3	,
\square was filed on	and was given A	pplication
No	by the following Office	
behalf of itself and its successors a of acquiring, the entire and exclupriority, in the INVENTION and the derived therefrom, such as continuited States, its territories, and a	and assigns ("ASSIGNEE"), usive rights, title and into a APPLICATION (and all or using applications, in whall foreign countries ("APPles, and requests, ASSIGNIng date, and Office into	terest, including the right of ther applications and patents ole or in part, in and for the PLICATION DERIVATIVES")); EE'S LEGAL REPRESENTATIVES
	Filing Date	Office
,,	J	

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Jan John	S13/2d7
Inventor's Signature	Date
Jeremy Halden FOWERS	
Printed Name in English	Printed Name in Native Language
	(if other than English)

of subject matter ("INVENTI" "MULTIFUNCTION VECTOR will be filed ASSIGNEE'S Id LLC, One Mic LEGAL REPRE on May 24, 24 the following	ON") disclosed and/or classification of the processing the process of the process	inventor or an original joing aimed in a patent application APPLICATION"), which: authorizes, and request rosoft Technology Licensing ashington 98052 (ASSIGNE) here in parentheses (fillication No. 15/603,934 Patent and Trademark Office, who in the parent of the patent and Trademark Office, who in the patent and Trademark Off	n entitled ts, ng, E'S ed by <u>ce</u>)
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behalf of itself and its succe of acquiring, the entire ar priority, in the INVENTION derived therefrom, such as	essors and assigns ("ASSI ad exclusive rights, title and the APPLICATION (ar s continuing applications	nington limited liability com GNEE"), is entitled to, and is and interest, including the nd all other applications an s, in whole or in part, in an es ("APPLICATION DERIVATI	desirous right of desired the
ASSIGNOR hereby at	uthorizes, and requests, ,	ASSIGNEE'S LEGAL REPRESEI	NTATIVES
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APPLICATION DERIVATIVES Application No.	Filing Date	Office	
Application No.	Filling Date	Office	

a sl	5/23/2017
Inventor's Signature	Date
Ming Gang LIU	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Kalin OVTCHAROV</u> ("ASSIGNOR") am the original inventor or an original jo	nt
inventor of subject matter ("INVENTION") disclosed and/or claimed in a pate	nt
application entitled "MULTIFUNCTION VECTOR PROCESSOR CIRCUITS" ("APPLICATION	"),
which:	
will be filed. ASSIGNOR hereby authorizes, and requests,	
ASSIGNEE'S legal representative, Microsoft Technology Licensing,	
LLC, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S	
LEGAL REPRESENTATIVES), to insert here in parentheses (filed	
on May 24, 2017 and given Application No. 15/603,934 by	
the following Office <u>US – United States Patent and Trademark Office</u>)	
this APPLICATION's Application No., filing date, and Office, when	
known;	
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\square was filed on and was given Application	
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,	
Microsoft Technology Licensing, LLC, a Washington limited liability company,	οn
behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desiro	
of acquiring, the entire and exclusive rights, title and interest, including the right	
priority, in the INVENTION and the APPLICATION (and all other applications and pater	
derived therefrom, such as continuing applications, in whole or in part, in and for t	
United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));	
ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIV	ES
to insert the Application No., filing date, and Office into the following table for a	
APPLICATION DERIVATIVES after they are known;	,
Application No. Filing Date Office	
- η, μ	
	_

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).

May 19/2017Inventor's Signature

Kalin OVTCHAROV

Printed Name in English

Printed Name in Native Language
(if other than English)

I <u>Steven Karl REINHARDT</u> (("ASSIGNOR") am the origin	al inventor or an original joint
inventor of subject matter ("	INVENTION") disclosed a	nd/or claimed in a patent
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oxtimes will be filed.	ASSIGNOR hereby autho	rizes, and requests,
ASSIGNEE'S legal i	representative, Microsoft	Technology Licensing,
LLC, One Microsof	t Way, Redmond, Washingt	on 98052 (ASSIGNEE'S
LEGAL REPRESENT	ATIVES), to insert here	in parentheses (filed
on May 24, 2017	and given Application	No. 15/603,934 by
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Microsoft Technology Lice	ensing, LLC, a Washington	limited liability company, on
behalf of itself and its successors		• • • • • • • • • • • • • • • • • • • •
of acquiring, the entire and ex-	-	
priority, in the INVENTION and t	- '	
derived therefrom, such as conf		
United States, its territories, and	i all foreign countries (API	FLICATION DERIVATIVES)),
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,	• •	EE'S LEGAL REPRESENTATIVES
to insert the Application No., f	_	the following table for any
APPLICATION DERIVATIVES after		
Application No.	Filing Date	Office

Page 1 of 2

PATENT ASSIGNMENT

402127-US-NP / MSFT-01949US0

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"));

Ata Karl Rulett	May 19, 2017	
Inventor's Signature	Date	
Steven Karl REINHARDT		
Printed Name in English	Printed Name in Native Language (if other than English)	

I <u>Eric Sen CHUNG</u> ("ASSIGNOR") am the original inventor or an original joi
inventor of subject matter ("INVENTION") disclosed and/or claimed in a pate
application entitled "MULTIFUNCTION VECTOR PROCESSOR CIRCUITS" ("APPLICATION
which:
will be filed. ASSIGNOR hereby authorizes, and requests,
ASSIGNEE'S legal representative, Microsoft Technology Licensing,
LLC, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S
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the following Office <u>US – United States Patent and Trademark Office</u>)
this APPLICATION's Application No., filing date, and Office, when
known;
Known,
was filed on and was given Application
No by the following Office "";
,
Microsoft Technology Licensing, LLC, a Washington limited liability company, obehalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desiro of acquiring, the entire and exclusive rights, title and interest, including the right priority, in the INVENTION and the APPLICATION (and all other applications and pater 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 REPRESENTATIVE to insert the Application No., filing date, and Office into the following table for a
APPLICATION DERIVATIVES after they are known;
Application No. Filing Date Office

	5/21/17
Inventor's Signature	Date
Eric Sen CHUNG	
Printed Name in English	Printed Name in Native Language
	(if other than English)