504909207 05/10/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT4955951

Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHRISTIAN L. BELADY	05/09/2018
BRIAN JANOUS	05/03/2018
DAVID THOMAS GAUTHIER	05/03/2018
SEAN M. JAMES	04/20/2018
OSVALDO P. MORALES	05/08/2018

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:	15976374

CORRESPONDENCE DATA

Fax Number: (248)641-0270

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: 248-641-1600

Email: usdocket@microsoft.com, mailroom@hdp.com, lhoneman@hdp.com

Correspondent Name: HARNESS, DICKEY & PIERCE, P.L.C. (MICROS

Address Line 1: P.O. BOX 828

Address Line 4: BLOOMFIELD HILLS, MICHIGAN 48303

ATTORNEY DOCKET NUMBER:	98052-149/403594-US-NP
NAME OF SUBMITTER:	LAURA HONEMAN
SIGNATURE:	/Laura Honeman/
DATE SIGNED:	05/10/2018

Total Attachments: 10

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PATENT REEL: 045770 FRAME: 0109

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PATENT REEL: 045770 FRAME: 0110

PATENT ASSIGNMENT

۱ <u>Chri</u>	<u>stian L. E</u>	Belady (*	'ASSIGNO	DR") am	ı the origir	nal inven	tor or an	origin	ıal joint
inventor of	subject	matter	("INVEN	TION")	disclosed	and/or	claimed	in a	patent
application	entitled	"DC	BUS	ARC	HITECTUI	RE FO	R DAT	ACEN	√TERS"
("APPLICATIO	N"), whic	h:							

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	Office	United State	s Patent & Trad	emark Office		this	APPLICA	TION's
	Applic	ation No., f	iling date,	and Office	, when	know	n;	
	was fil	ed on		and was g	jiven A	pplica	tion	
	No		by the	following	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;

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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).

Mutu L. Behry Inventor's Signature	5/9/2018 Date
Christian L. Belady	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT

I <u>Brian Janous</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "DC BUS ARCHITECTURE FOR DATACENTERS" ("APPLICATION"), which:

\boxtimes	will	be	filed.	ASSIGNO	R hereby	auth	orizes,	and red	quests,
	ASSIC	NE	E'S lega	l represent	ative, Micr	osoft	Techn	ology Lice	ensing,
	LLC,	One	Micros	oft Way, Re	dmond, Wa	shing	ton 98	052 (ASSI	GNEE'S
	LEGA	L F	REPRESE	NTATIVES),	to insert	here	in pa	rentheses	(filed
	on		<u>May 10</u>), 2018	_ and		given	Appl	ication
	No.		15/9	76,374	by		the	fol	lowing
	Office	e _	United St	tates Patent 8	Trademark	Office)	this	APPLICA	TION's
	Appli	cat	ion No.,	filing date,	and Office	, whe	n know	n;	
	was f	ilec	l on		and was g	jiven /	Applica	tion	
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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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Inventor's Signature	5/3/18 Date
Brian Janous	Account to the second s
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT

I <u>David Thomas Gauthier</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "DC BUS ARCHITECTURE FOR DATACENTERS" ("APPLICATION"), which:

\boxtimes	will	be	filed.	ASSIGNO	R hereby	autho	orizes,	and	requ	ıests,
	ASSI	GNE	E'S legal	l represent	ative, Mici	osoft	Techno	ology	Licen	ısing,
	LLC,	One	e Microso	oft Way, Re	dmond, Wa	ashing	ton 98	052 (A	SSIGI	NEE'S
	LEGA	۱L F	REPRESEN	NTATIVES),	to insert	here	in pa	renthe	ses	(filed
	on		May 10,	2018	_ and		given	Α	pplic	ation
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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;

Application No.	Filing Date	Office	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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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"));

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Inventor) Signature	5/3/18 Date
David Thomas Gauthier	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS

PATENT ASSIGNMENT

I <u>Sean M. James</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "DC BUS ARCHITECTURE FOR DATACENTERS" ("APPLICATION"), which:

\times	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 <u>May 10, 2018</u> and given Application No. <u>15/976,374</u> by
	the following Office United States Patent & Trademark Office) this
	APPLICATION's Application No., filing date, and Office, when known
	was filed on and was given Application
	No by the following Office
	и п,

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"));

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Application No.	Filing Date	Office	
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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"));

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Sid-	4/20/2018
Inventor's Signature	Date
Sean M. James	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT

I <u>Osvaldo P. Morales</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "DC BUS ARCHITECTURE FOR DATACENTERS" ("APPLICATION"), which:

X			ASSIGNOR	•				•
	ASSIGN	IEE'S legal	representat	ive, Micr	osoft '	Techno	ology Lice	nsing,
	LLC, O	ne Microso	ft Way, Redi	nond, Wa	shingt	on 980)52 (ASSI	SNEE'S
	LEGAL	REPRESEN	TATIVES), t	o insert	here	in par	rentheses	(filed
	on	May 10, 2	2018	and	9	given	Appli	cation
	No.	15/97	76,374	by		the	fol	lowing
	Office	United Sta	tes Patent & 7	rademark	Office)	this	APPLICA	TION's
	Applica	ation No., f	iling date, a	nd Office	, when	knowr	1;	
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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"));

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	May 8 to 7018		
inventor's Signature	Date		
Osvaldo P. Morales			
Printed Name in English	Printed Name in Native Language		
	(if other than English)		