## 504646940 11/16/2017

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT4693661

Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
DOUGLAS C. BURGER	05/19/2015
ANDREW R. PUTNAM	05/13/2015
STEPHEN F. HEIL	05/15/2015

#### **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:	15669652

#### CORRESPONDENCE DATA

**Fax Number:** (509)252-5002

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:** 425-707-9382

Email: usdocket@microsoft.com

Correspondent Name: MICROSOFT CORPORATION

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Address Line 4: REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER:	356819-US-CNT	
NAME OF SUBMITTER:	ALEX LEA	
SIGNATURE:	/alex lea/	
DATE SIGNED:	11/16/2017	

### **Total Attachments: 6**

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PATENT REEL: 044156 FRAME: 0240

# PATENT ASSIGNMENT MS Docket No.: 356819.02

I <u>Douglas C. Bu</u>	<u>rger</u> ("ASSIGNOR") am	the original inventor	or an original joint	
nventor of subject matter ("INVENTION") disclosed and/or claimed in a paten				
•	application entitled " <u>Data Processing System having a Hardware Acceleration Plane and</u>			
a Software Plane" ("APP	_ ·	······································		
<u></u> (,				
ASSIGNEE LLC., O (ASSIGNEI parenthes No.	E'S LEGAL REPRESE ses (filed on 20 May 20 14717680	e, Microsoft Technolo Redmond, Washin NTATIVES), to inso and give by the	ogy Licensing, ogton 98052 ert here in en Application following	
Office _		) this A	APPLICATION'S	
Application	on No., filing date, and	Office, when known;		
No	on and by the foll	owing Office	on	
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	,	
15/669,652	August 4, 20			
10,000,002	1.09001 1, 20			

Page 1 of 2

PATENT.	ASSIGNMENT	MS Docket No.:	356819.02

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).

Ogh (8)	5/19/15
Inventor's Signature	Date
Douglas C. Burger	
Printed Name in English	Printed Name in Native Language
	(if other than English)

	PATENT ASSIGNMENT	MS Docket No.: <u>356819.02</u>
l <u>Andı</u>	<u>rew R. Putnam</u> ("ASSIGNOR") am the c	original inventor or an original join
	subject matter ("INVENTION") discl	
application e	ntitled " <u>Data Processing System havin</u>	g a Hardware Acceleration Plane and
a Software Pl	ane" ("APPLICATION"), which:	
	will be filed. ASSIGNOR hereby ASSIGNEE'S legal representative, Mic LLC., One Microsoft Way, Red (ASSIGNEE'S LEGAL REPRESENTATION parentheses (filed on 20 May 2015 No. 14717680 by Office USPTO Application No., filing date, and Office	crosoft Technology Licensing, mond, Washington 98052 IVES), to insert here in and given Application the following ) this APPLICATION's
	The production of the second s	o,o,
	was filed on and was	given Application
	No by the following	Office
	<u>"</u> ,	
Micros	soft Technology Licensing, LLC, a Wasl	hington limited liability company, or
behalf of its	self and its successors and assigns	("ASSIGNEE"), is entitled to, and is
	acquiring, the entire and exclusive rig	_
_	ity, in the INVENTION and the APPLICA	

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
15/669,652	August 4, 2017	USPTO

Page 1 of 2

PATENT ASSIGNMENT		MS Docket No.:	356819.02

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).

ahRato	5/13/15
Inventor's Signature	Date
Andrew R. Putnam	
Printed Name in English	Printed Name in Native Language
	(if other than English)

			inventor or an original joint			
			and/or claimed in a patent			
			<u>irdware Acceleration Plane and</u>			
<u>a Software Plane"</u>	' ("APPLICATIO	N"), which:				
gunga						
⊠ will	be filed.	ASSIGNOR hereby auth	orizes, and requests,			
LLC	., One Mic	representative, Microsoft rosoft Way, Redmond,	Washington 98052			
		SAL REPRESENTATIVES),				
pare	entheses (filed	on 20 May 2015				
No.			the following			
Арр	ilication No., fi	ling date, and Office, whe	n known;			
□ was	filed on	and was given	Application			
No.	No by the following Office					
<i>11</i>	***************************************	88.				
pehalf of itself a desirous of acquiright of priority, in patents derived t	and its succes iring, the entiment in the INVENTION in th	ssors and assigns ("ASSIG e 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			
ASSIGNOR	hereby a	authorizes, and requ	iests, ASSIGNEE'S LEGAL			
REPRESENTATIVES	S to insert th	ne Application No., filing	g date, and Office into the			
ollowing table fo	r any APPLICA	TION DERIVATIVES after th	iey are known;			
Application No.		Filing Date	Office			
15/669,652		August 4, 2017	USPTO			
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Page 1 of 2

MS Docket No.: 356819.02

<b>}</b>	PATENT	ASSIGNMENT	MS Docket No.:	356819.02
			OCCUPATION OF THE PROPERTY OF	-

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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Stall	MAY 15, 2015		
Inventor's Signature	Date		
Stephen F. Heil			
Printed Name in English	Printed Name in Native Language		
	(if other than English)		

**RECORDED: 11/16/2017**