

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JIE LIU	04/29/2015
BRIAN JANOUS	04/23/2015
GREGORY JOSEPH MCKNIGHT	04/22/2015
SEAN JAMES	04/23/2015
RICARDO BIANCHINI	04/27/2015
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:	15919005
CORRESPONDENCE DATA	
Fax Number:	(509)381-3110
<i>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.</i>	
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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:	355592-US-DIV
NAME OF SUBMITTER:	ALEX LEA
SIGNATURE:	/alex lea/
DATE SIGNED:	06/11/2018
Total Attachments: 10	
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I Jie Liu ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "GRID ENERGY ROUTING" ("APPLICATION"), which:

☐ will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representative of Microsoft Technology Licensing, LLC, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on and given Application No. _____ by the following Office US - United States Patent and Trademark Office) this APPLICATION's Application No., filing date, and Office, when known;

☒ was filed on July 11, 2014 and was given Application No 62/023,782 by the following Office "The United States Patent and Trademark 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
14/675,030	March 31, 2015	The United States Patent and Trademark Office
15/919,005	March 12, 2018	USPTO

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).

	<u>4/29/2015</u>
Inventor's Signature	Date
Jie Liu	<u>刘杰</u>
Printed Name in English	Printed Name in Native Language (if other than English)

I Brian Janous ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "GRID ENERGY ROUTING" ("APPLICATION"), which:

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	<u>4/23/15</u>
Inventor's Signature	Date
<u>Brian Janous</u>	
Printed Name in English	Printed Name in Native Language (if other than English)

I Gregory Joseph McKnight ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "GRID ENERGY ROUTING" ("APPLICATION"), which:

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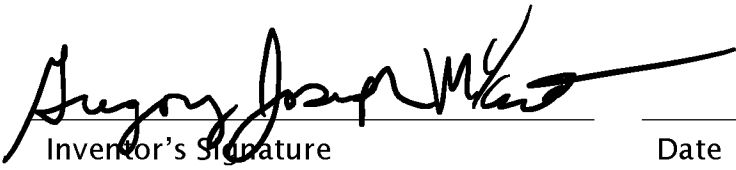
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 Inventor's Signature	<u>4/22/15</u> Date
<u>Gregory Joseph McKnight</u> Printed Name in English	 Printed Name in Native Language (if other than English)

I Sean James ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "GRID ENERGY ROUTING" ("APPLICATION"), which:

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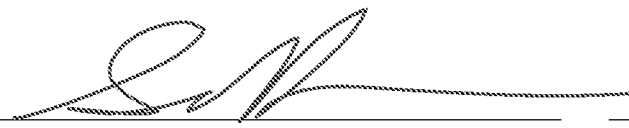
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	April 23, 2015
Inventor's Signature	Date
Sean James	
Printed Name in English	Printed Name in Native Language (if other than English)

I Ricardo Bianchini ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "GRID ENERGY ROUTING" ("APPLICATION"), which:

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<u>Ricardo Bianchini</u>	<u>4/27/15</u>
Inventor's Signature	Date
<u>Ricardo Bianchini</u>	
Printed Name in English	Printed Name in Native Language (if other than English)