505378109 03/15/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5424902

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YUXIONG HE	12/20/2012
SAMEH ELNIKETY	12/19/2012
KATHRYN S. MCKINLEY	12/19/2012
SHAOLEI REN	12/19/2012

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16355217

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: 425-538-3029

Email: chriochs@microsoft.com MICROSOFT CORPORATION **Correspondent Name:** Address Line 1: ONE MICROSOFT WAY

Address Line 4: **REDMOND, WASHINGTON 98052**

ATTORNEY DOCKET NUMBER:	337655-US-CNT[2]
NAME OF SUBMITTER:	ALEX LEA
SIGNATURE:	/alex lea/
DATE SIGNED:	03/15/2019

Total Attachments: 8

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PATENT REEL: 048615 FRAME: 0492

PATENT ASSIGNMENT MS Docket No.: 337655.01

A I KA LUINA	22001014HE244	1115 Docket 116 <u>337633.01</u>
of subject matter ("INVENTION	DN") disclosed and/or cla	
entitled " <u>Assigning Jobs to</u> which:	Heterogeneous Processin	g_Modules" ("APPLICATION")
ASSIGNEE'S lega Department, Mic	ASSIGNOR hereby auth representatives, of the Law rosoft Corporation, One M 52 (ASSIGNEE'S LEGAL REPR	w and Corporate Affairs icrosoft Way, Redmond,
	heses (filed on ^{21-DI}	167
Application 1	No. 13/724826	by the following) this APPLICATION's
Application No.,	filing date, and Office, whe	n known;
	and was given by the following Office 	
Microsoft Corporation, successors and assigns ("ASS entire and exclusive rights, t (and all other applications applications, in and for the ("APPLICATION DERIVATIVES")	IGNEE"), is entitled to, and tle and interest in the INV and patents derived the United States, its territor	ENTION and the APPLICATION erefrom, such as continuing
REPRESENTATIVES to insert	the Application No., filin	•
following table for any APPLIC		I
Application No. 16/355,217	Filing Date March 15, 2019	Office USPTO

Page 1 of 2

PATENT ASSIGNMENT	MS Docket No.:	337655.01

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 in the INVENTION and the APPLICATION (and 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).

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Yna a	12/20/2012	
Inventor's Signature	Date	
Yuxiong He	何瑜维	
Printed Name in English	Printed Name in Native Language	
	(if other than English)	

PATENT ASSIGNMENT MS Docket No.: 337655.01

inventor of	subject matter (entitled " <u>Assig</u> n	"INVENTION") disclosed	inventor or an original joint and/or claimed in a patent neous Processing Modules"
	ASSIGNEE'S legal Department, Micro Washington 9805 here in parenth Application No Office US Patents	ASSIGNOR hereby auth representatives, of the Lavosoft Corporation, One Mi 2 (ASSIGNEE'S LEGAL REPR eses (filed on21-DEC	v and Corporate Affairs crosoft Way, Redmond, ESENTATIVES), to insert
	No	and was given by the following Office	
successors a entire and ex (and all oth applications,	nd assigns ("ASSIC xclusive rights, titl ner applications a	GNEE"), is entitled to, and le and interest in the INV and patents derived the	n, on behalf of itself and its is desirous of acquiring, the ENTION and the APPLICATION arefrom, such as continuing es, and all foreign countries
REPRESENTA	TIVES to insert th	ne Application No., filin	uests, ASSIGNEE'S LEGAL g date, and Office into the ney are known;
Application N		Filing Date	Office
16/355,217		March 15, 2019	USPTO

Page 1 of 2

PATENT.	ASSIGNMENT	MS	Docket No.:	<u>337655.01</u>

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Samula Edinally	12/19/2012
Inventor's Signature	Date
Sameh Elnikety	حجينا حد
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT MS Docket No.: 337655.01 I Kathryn S. McKinley ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "Assigning Jobs to Heterogeneous Processing Modules" ("APPLICATION"), which: will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of the Law and Corporate Affairs Department, Microsoft Corporation, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on 21-DEC-2012 and given 13/724826 Application No. by the following US Patent and Trademark Office Office) this APPLICATION's Application No., filing date, and Office, when known; was filed on _____ and was given Application No ______ by the following Office Microsoft Corporation, a Washington Corporation, 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 in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, 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 16/355,217 March 15, 2019 USPTO

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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 in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

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Inventor's Signature	12/19/2012 Date
Kathryn S. McKinley	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

I <u>Shaolei Ren</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "<u>Assigning Jobs to Heterogeneous Processing Modules"</u> ("APPLICATION"), which:

MS Docket No.: <u>337655.01</u>

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	Depa	artm	ent, Mic	rosoft	Corpo	ration, O	ne Micros	oft Way	, Redr	nond
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	Offic	e _	US Pate	nt and Tr	demark	Office) th	is AP	PLICAT	ION's
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Microsoft Corporation, a Washington Corporation, 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 in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, 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	
16/355,217	March 15, 2019	USPTO	

PATENT ASSIGNMENT

MS Docket No.: 337655.01

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Inventor's Signature

Shaolei Ren

Printed Name in English

12-19-2013

Date

Printed Name in Native Language

(if other than English)