503710102 02/25/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3756743

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YINGNONG DANG	12/17/2015
QIANG WANG	02/05/2016
QIANCHUAN ZHAO	12/18/2015
SHULEI WANG	01/13/2016
RUI DING	02/03/2016
QIANG FU	01/11/2016
DONGMEI ZHANG	12/21/2015

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:	14898216

CORRESPONDENCE DATA

Fax Number: (509)323-8979

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: (5090 324-9256

Email: leanns@leehayes.com

Correspondent Name: LEE & HAYES, PLLC

Address Line 1: 601 WEST RIVERSIDE, SUITE 1400
Address Line 4: SPOKANE, WASHINGTON 99201

ATTORNEY DOCKET NUMBER:	MS1-5399US
NAME OF SUBMITTER:	LEANN M CARMAN
SIGNATURE:	/LeAnn M Carman/
DATE SIGNED:	02/25/2016

PATENT REEL: 037832 FRAME: 0269

Total Attachments: 14 source=5399assignment#page1.tif source=5399assignment#page2.tif source=5399assignment#page3.tif source=5399assignment#page4.tif source=5399assignment#page5.tif source=5399assignment#page6.tif source=5399assignment#page7.tif source=5399assignment#page8.tif source=5399assignment#page9.tif source=5399assignment#page10.tif source=5399assignment#page11.tif source=5399assignment#page12.tif source=5399assignment#page13.tif source=5399assignment#page14.tif

PATENT REEL: 037832 FRAME: 0270

MS Docket No.: 338917.06

Attorney Docket No.: MS1- 5399US

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"));

类泌浴	12/17/2015
Inventor's Signature	Date
Yingnong Dang	党映农
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT	MS Docket No.: 338917.06
EXTERMS COMMANDAMENTS.	Attorney Docket No.: MS1-5399US

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aray Way	2/5/2016
Inventor's Signature	Date
Qiang Wang	I 34
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT	MS Docket	No.: 338917.06
	Attorney Docket	No.: MS1- 5399US
I Qianchuan Zh or an original joint inventor of su a patent application entitled	(7,0010110	R") am the original inventor disclosed and/or claimed in
Fa	ast Grouping of Time Series	
("APPLICATION"), which:		
ASSIGNEE'S legal re LLC., One Microsoft LEGAL REPRESENTA on the following Office	ASSIGNOR hereby authoricepresentative, Microsoft Tealway, Redmond, Washingto ATIVES), to insert here in and given Application Nosert and Market States Patent and Application Nosert App	echnology Licensing, n 98052 (ASSIGNEE'S n parentheses (filed o by nd Trademark Office)
	14/2015 and was given Ap by the following Office <u>U</u> ark Office;	
Microsoft Technology Lice behalf of itself and its successors of acquiring, the entire and exc priority, in the INVENTION and the derived therefrom, such as cont United States, its territories, and	and assigns ("ASSIGNEE"), is lusive rights, title and inte ne APPLICATION (and all oth inuing applications, in who	erest, including the right of ner applications and patents le or in part, in and for the
	•	E'S LEGAL REPRESENTATIVES
to insert the Application No., fi APPLICATION DERIVATIVES after	_	the following table for any
Application No.		Office

PATENT ASSIGNMENT	MS Docket No.: 338917.06 Attorney Docket No.: MS1-5399US

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"));

A,	
<u>bun</u>	12/18/2015
Inventor's Signature	Date
Qianchuan Zhao	赵千川
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT		MS Doc	ket No.:	338917.06
		Attorney Doc	ket No.:	MS1- 5399US
or an origina		¹⁹ ("ASSIG ubject matter ("INVENTIOI		
	F	Fast Grouping of Time Series		
("APPLICATIO	ON"), which:			
	ASSIGNEE'S legal is LLC., One Microsof LEGAL REPRESENT on the following Office	ASSIGNOR hereby auth representative, Microsoft it Way, Redmond, Washing ATIVES), to insert here and given Application e US – United States Paten s Application No., filing	Techno gton 980 In par n No it and Tra	logy Licensing, 52 (ASSIGNEE'S entheses (filed by ademark Office)
		14/2015 and was given by the following Office;		
behalf of itse of acquiring priority, in the derived there	olf and its successors the entire and exc ne INVENTION and the efrom, such as cont	ensing, LLC, a Washingto s and assigns ("ASSIGNEE" clusive rights, title and i he APPLICATION (and all tinuing applications, in w I all foreign countries ("Al), is entit nterest, other ap hole or	led to, and is desirous including the right of plications and patents in part, in and for the
to insert the		zes, and requests, ASSIGI iling date, and Office in they are known:		
	No.	Filing Date	Office	

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MS Docket No.: 338917.06

Attorney Docket No.: MS1-5399US

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Shop' Cm	1/13/2016
Inventor's Signature	Date
Shulei Wang	王友这
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT	MS Docket No.: 338917.06		
	Attorney Docks	et No.: MS1-5399US	

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02/03/2016
Date
Printed Name in Native Language (if other than English)

MS Docket No.: 338917.06

Attorney Docket No.: MS1- 5399US

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n to	
Clary Fu	1/11/2016
Inventor's Signature	Date
Qiang Fu	1
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT		MS Docket 1	Vo.;	338917.06
		Attorney Docket N	No.:	MS1- 5399US
or an origina		ig("ASSIGNOR vject matter ("INVENTION") d		
a highway white		st Grouping of Time Series		
("APPLICATIO	ON"), which:			
	ASSIGNEE'S legal rep LLC., One Microsoft N LEGAL REPRESENTA on the following Office L	SSIGNOR hereby authorize presentative, Microsoft Tec Way, Redmond, Washington TIVES), to insert here in and given Application No. JS – United States Patent and Application No., filing date	hno 980 par , d Tra	logy Licensing, 52 (ASSIGNEE'S entheses (filed by ademark Office)
		W2015 and was given Appl by the following Office <u>US</u> k Office;		
behalf of itse of acquiring, priority, in th derived there United States	If and its successors a the entire and excluse INVENTION and the efrom, such as conting its territories, and a	sing, LLC, a Washington limind assigns ("ASSIGNEE"), is easive rights, title and interestable APPLICATION (and all other uing applications, in whole all foreign countries ("APPLIC"), and requests, ASSIGNEE'S	entit est, i r app or i ATIC	led to, and is desirous including the right of offications and patents in part, in and for the DN DERIVATIVES"));
to insert the	Application No., filin	ng date, and Office into th		
Application	I DERIVATIVES after th		fice	

PATENT	ASSIGNMENT

MS Docket No.: 338917.06

Attorney Docket No.: MS1- 5399US

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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).

Dongmei Zhang

Printed Name in English

Printed Name in English

Printed Name in Native Language

(if other than English)