

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
<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>	
Phone:	(509) 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

Total Attachments: 14

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I Yingnong Dang (“ASSIGNOR”) am the original inventor or an original joint inventor of subject matter (“INVENTION”) disclosed and/or claimed in a patent application entitled

Fast Grouping of Time Series

(“APPLICATION”), which:

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 _____ 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 12/14/2015 and was given Application No. 14/898,216 by the following Office US – United States Patent and Trademark Office;

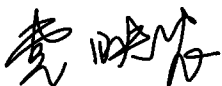
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For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, 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"));

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).

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

I Qiang Wang (“ASSIGNOR”) am the original inventor or an original joint inventor of subject matter (“INVENTION”) disclosed and/or claimed in a patent application entitled

Fast Grouping of Time Series

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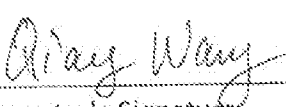
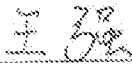
PATENT ASSIGNMENT

MS Docket No.: 338917.06

Attorney Docket No.: MS1- 5399US

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	<u>2/5/2016</u>
Inventor's Signature	Date
Qiang Wang	
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 Zhao ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled

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	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)

I, Shulei Wang ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled

Fast Grouping of Time Series

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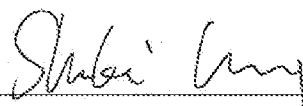
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	1/13/2016
Inventor's Signature	Date
Shulei Wang	王树磊
Printed Name in English	Printed Name in Native Language (if other than English)

I Rui Ding (“ASSIGNOR”) am the original inventor or an original joint inventor of subject matter (“INVENTION”) disclosed and/or claimed in a patent application entitled

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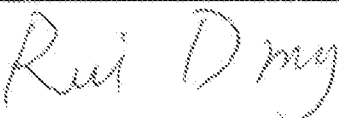

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	02/03/2016
Inventor's Signature	Date
Rui Ding	
Printed Name in English	Printed Name in Native Language (if other than English)

I Qiang Fu (“ASSIGNOR”) am the original inventor or an original joint inventor of subject matter (“INVENTION”) disclosed and/or claimed in a patent application entitled

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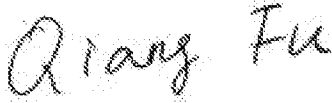

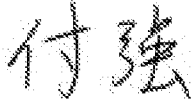
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<hr/> Inventor's Signature	<hr/> Date
Qiang Fu	
<hr/> Printed Name in English	<hr/> Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

MS Docket No.: 338917.06

Attorney Docket No.: MS1- 5399US

I, Dongmei Zhang ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled

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	<u>12/21/2015</u>
Inventor's Signature	Date
<u>Dongmei Zhang</u>	
Printed Name in English	Printed Name in Native Language (if other than English)