#### 03/31/2016 503762311

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3808958

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
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LI DENG	03/29/2016
JIANFENG GAO	03/23/2016
WEN-TAU YIH	03/23/2016
MOONTAE LEE	03/25/2016
PAUL SMOLENSKY	03/24/2016

# **RECEIVING PARTY DATA**

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State/Country:	WASHINGTON	
Postal Code:	98052	

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15084366

## **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	MS1-6422US
NAME OF SUBMITTER:	JANETTE ABERNATHY
SIGNATURE:	/Janette Abernathy/
DATE SIGNED:	03/31/2016

**PATENT** REEL: 038151 FRAME: 0894 503762311

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PATENT REEL: 038151 FRAME: 0895

Application No.	Filing Date	Office

Attorney Docket No.: MS1- 6422US


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"));

Nide	3/25/2016
Inventor's Signature	Date
Xiaodong He	何晓冬
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT		MS Docket Attorney Docket		359127.01 MS1- 6422US
I LID or an original joint inventor of a patent application entitled				n the original inventor osed and/or claimed in
COMPUTATIONAL-MODEL	PERATION U	SING MULTIPLE SUB.	JECT F	REPRESENTATIONS
("APPLICATION"), which:				
LLC., One Micro LEGAL REPRES on March 29, 2 the following C this APPLICATI known;	soft Way, Re NTATIVES), 116 and ( ffice <u>US – Un</u> N's Applica	ative, Microsoft Ted dmond, Washingto to insert here in given Application N ited States Patent a ition No., filling da and was given Ap	n 980 n par o. <u>15</u> nd Tra te, ar	052 (ASSIGNEE'S entheses (filed 6/084,366 by ademark Office) ad Office, when
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Patent and Tra	emark Offic	<u>e</u> :		
Microsoft Technology behalf of itself and its succes of acquiring, the entire and priority, in the INVENTION a derived therefrom, such as United States, its territories,	sors and assi exclusive ri d the APPLIC ontinuing ap	igns ("ASSIGNEE"), is ghts, title and inte CATION (and all oth oplications, in who	s enti rest, ier ap le or	including the right of plications and patents in part, in and for the
ASSIGNOR hereby aut	orizes, and	requests, ASSIGNEI	e's le	GAL REPRESENTATIVES
to insert the Application No	., filing date	e, and Office into	the fo	ollowing table for any
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Page 1 of 2

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"));

-20	3/29/2014
Inventor's Signature	Date
Li Deng	
Printed Name in English	Printed Name in Native Language
	(if other than English)

Attorney Docket No.: MS1- 6422US

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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"));

Tambengan	3/23/2016	
Inventor's Signature	Date	
Jianfeng Gao	<b>高</b> 剑峰	
Printed Name in English	Printed Name in Native Language (if other than English)	

Application No.	Filing Date	Office

MS Docket No.: 359127.01

Attorney Docket No.: MS1- 6422US

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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"));

Merson 23	3/23/2016
Inventor's Signature	Date
Wen-Tau Yih	易文輯
Printed Name in English	Printed Name in Native Language (if other than English)

Application No. Filing Date Office

MS Docket No.: 359127.01

Attorney Docket No.: MS1-6422US

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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"));

Le monta	3/25/2016
Inventor's Signature	Date
Moontae Lee	01 是研
Printed Name in English	Printed Name in Native Language (if other than English)

	Application No.	Filing Date	Office
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Attorney Docket No.: MS1-6422US

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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).

Paul Smolensky
Printed Name in English
Printed Name in English
Printed Name in Native Language
(if other than English)