503132584 01/12/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3179194

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HAIPENG LEI	12/22/2014
KODO SHU	12/22/2014

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:	14594914

CORRESPONDENCE DATA

Fax Number:

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: 425-707-9382 Email: mkey@zetelaw.com

Correspondent Name: MICROSOFT CORPORATION

Address Line 1: ONE MICROSOFT WAY

Address Line 4: REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER:	356357.02
NAME OF SUBMITTER:	MACLANE C. KEY
SIGNATURE:	/MacLane C. Key/
DATE SIGNED:	01/12/2015

Total Attachments: 4

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PATENT 503132584 REEL: 034685 FRAME: 0649

\$	<u>Haipeng Lei</u> ('	'ASSIGNOR") am the origin	al inventor or an original joint
inventor of s	subject matter ("IN	VENTION") disclosed and /	or claimed in a patent
application	entitled" <u>CHANNE</u>	L SENSING ENHANCEMENT	"("APPLICATION"), which:
	ASSIGNEE'S legal Department, Micro Washington 9805 here in parenth Application N Office USPTO	ASSIGNOR hereby authorepresentatives, of the Lacosoft Corporation, One Market (ASSIGNEE'S LEGAL REPropesses (filed on Januar o. 14/594,914	w and Corporate Affairs licrosoft Way, Redmond, RESENTATIVES), to insert y 12, 2015 and given by the following) this APPLICATION's
	No	and was given by the following Offic ";	
successors a entire and e INVENTION therefrom, s	and assigns ("ASSI exclusive rights, ti and the APPLICA" uch as continuing	GNEE"), is entitled to, and tle and interest, including FION (and all other appl	n, on behalf of itself and its I is desirous of acquiring, the g the right of priority, in the lications and patents derived in part, in and for the United TION DERIVATIVES"));
REPRESENTA	TIVES to insert t	he Application No., filin	uests, ASSIGNEE'S LEGAL g date, and Office into the heyareknown;
Application N		Filing Date	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).

Inventor's Signature Haipeng Lei	Date Dec. 22, 2014
Printed Name in English Haipeng Lei	Printed Name in Native Language (if other than English) 雷海鹏

I <u>Kodo Shu</u>	("ASSIGNOR") aı	n the original i	nventor or an original joint	
inventor of subject ma	tter ("INVENTION") (disclosed and/	or claimed in a patent	
application entitled "_C	HANNEL SENSING E	NHANCEMENT'	("APPLICATION"), which:	
ASSIGNEE Departme Washingt here in Applicatio Office	C'S legal representation, Microsoft Corporation 98052 (ASSIGNE parentheses (filed on No. $14/5$	tives, of the La pration, One M E'S LEGAL REPF I on January 94,914	w and Corporate Affairs icrosoft Way, Redmond, RESENTATIVES), to insert 12, 2015 and given by the following this APPLICATION's en known;	
No	onby the			
successors and assign entire and exclusive r INVENTION and the A	s ("ASSIGNEE"), is e ights, title and int APPLICATION (and ntinuing application	entitled to, and erest, including all other appl as, in whole or	n, on behalf of itself and is desirous of acquiring, the right of priority, in ications and patents dering in part, in and for the Unition DERIVATIVES"));	the the ivec
	insert the Applica	tion No., filin	uests, ASSIGNEE'S LEG g date, and Office into	
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PATENT ASSIGNMENT MS Docket No.:

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Inventor's Signature	Date Dee. 2014
Printed Name in English Kodo Shu	Printed Name in Native Language (if other than English) 朱厚道