## 502620257 01/03/2014

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2666866

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
DAN HWANG	12/18/2013
LYNN DAI	12/18/2013
MUHAMMAD USMAN	12/31/2013

## **RECEIVING PARTY DATA**

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

## PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14147085

## **CORRESPONDENCE DATA**

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Address Line 4: REDMOND, WASHINGTON 98052

NAME OF SUBMITTER:	JOHN KALNAY
Signature:	/John Kalnay/
Date:	01/03/2014

Total Attachments: 6

PATENT REEL: 031888 FRAME: 0696 source=340345-01-Assignments\_Page\_1#page1.tif source=340345-01-Assignments\_Page\_2#page1.tif source=340345-01-Assignments\_Page\_3#page1.tif source=340345-01-Assignments\_Page\_4#page1.tif source=340345-01-Assignments\_Page\_5#page1.tif source=340345-01-Assignments\_Page\_6#page1.tif

> PATENT REEL: 031888 FRAME: 0697

PATEN	T ASSIGNMENT	MS Docket No.: <u>340345.01</u>
l, <u>Dan Hwang</u> ("ASSIGN of subject matter ("INVENTI entitled " <u>Hover Angle</u> " ("APPL	ON") disclosed and/or c	ntor or an original joint inventor laimed in a patent application
ASSIGNEE'S lega Department, Mic Washington 980 here in parent Application I Office Application No.,	I representatives, of the Larosoft Corporation, One 152 (ASSIGNEE'S LEGAL REFINES (filed on	and given by the following  this APPLICATION's en known;  Application
	by the following Offic	ce
entire and exclusive rights, till (and all other applications	GNEE"), is entitled to, and the invite and interest in the INV and patents derived the United States, its territor	on, on behalf of itself and its d is desirous of acquiring, the /ENTION and the APPLICATION erefrom, such as continuing ries, and all foreign countries
REPRESENTATIVES to insert t	authorizes, and req	o date and Office into the
following table for any APPLICA Application No.	Filing Date	ney are known; Office
		Office

Page 1 of 2

## PATENT ASSIGNMENT

MS Docket No.: <u>340345.01</u>

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).

Inventor's Signature	12-18-2013 Date
Dan Hwang Printed Name in English	Printed Name in Native Language (if other than English)

PATEN	T ASSIGNMENT	MS Docket No.: <u>340345.01</u>
I, <u>Lynn Dai</u> ("ASSIGNOR subject matter ("INVENTION") " <u>Hover Angle</u> " ("APPLICATION"	disclosed and/or claimed	r or an original joint inventor of in a patent application entitled
ASSIGNEE'S lega Department, Mic Washington 980 here in parent Application N Office	ASSIGNOR hereby autorions of the Later of th	aw and Corporate Affairs  Microsoft Way, Redmond,  RESENTATIVES), to insert  and given by the following  this APPLICATION's
was filed on	and was given	Application
No	by the following Offic	
entire and exclusive rights, till (and all other applications	GNEE"), is entitled to, and the invalue of the invalue of the invented the united States, its territor	on, on behalf of itself and its dis desirous of acquiring, the ENTION and the APPLICATION erefrom, such as continuing lies, and all foreign countries
REPRESENTATIVES to insert t	authorizes, and required he Application No., filin	g date, and Office into the
following table for any APPLICA Application No.	Filing Date	
	Timing Date	Office

Page 1 of 2

## PATENT ASSIGNMENT

MS Docket No.: <u>340345.01</u>

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).

Inventor's Signature	12/18/2013 Date
<u>Lynn Dai</u> Printed Name in English	Printed Name in Native Language (if other than English)

# PATENT ASSIGNMENT MS Docket No.: 340345.01

i, <u>Muhammad Osman</u> (	ASSIGNOR), am the orig	jinal inventor or an original joint
inventor of subject matter	("INVENTION") disclosed	and/or claimed in a patent
application entitled "Hover An	gle" ("APPLICATION"), whi	ich.
will be filed.	ASSIGNOR hereby au	thorizes, and requests,
ASSIGNEE'S logg	romana anticipation of the	and requests,
ASSIGNEE 3 lega	representatives, of the L	aw and Corporate Affairs
Department, Mic	rosoft Corporation, One	Microsoft Way, Redmond,
Washington 980	52 (ASSIGNEE'S LEGAL REI	PRESENTATIVES), to insert
here in parent	heses (filed on	and given
Application N	ło	by the following
Office		) this APPLICATION's
Application No.	filing date, and Office, wh	
rippireacion (40.,	ming date, and Office, wr	ien known;
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☐ was filed on	and was give	n Application
	by the following Offi	
4.*	".	
	*	
Microsoft Company	- 144 Kr. 3	
wicrosoft Corporation,	a washington Corporation	on, on behalf of itself and its
successors and assigns ("ASSI	GNEE"), is entitled to, an	id is desirous of acquiring, the
entire and exclusive rights, til	le and interest in the IN	VENTION and the APPLICATION
(and all other applications	and patents derived th	nerefrom, such as continuing
applications, in and for the	United States its territo	ries, and all foreign countries
("APPLICATION DERIVATIVES"));	territo	ries, and an loteign countries
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ASSIGNOR hands		
ASSIGNOR nereby	authorizes, and rec	quests, ASSIGNEE'S LEGAL
REPRESENTATIVES to insert t	he Application No., filir	ng date, and Office into the
following table for any APPLICA	TION DERIVATIVES after t	they are known:
Application No.	Filing Date	Office
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Page 1 of 2

PATENT REEL: 031888 FRAME: 0702

## PATENT ASSIGNMENT

MS Docket No.: <u>340345.01</u>

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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).

Inventor's Signature	12/31/2013 Date
<u>Muhammad Usman</u>	
Printed Name in English	Printed Name in Native Language (if other than English)