502636430 01/15/2014

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2683038

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JEFFREY ALAN HEROLD	01/05/2014
NICHOLAS R. BARLING	12/19/2013
CHARLA PEREIRA	01/07/2014
ARIANNE TAYLOR	12/19/2013

RECEIVING PARTY DATA

Name:	Microsoft Corporation
Street Address:	One Microsoft Way
City:	Redmond
State/Country:	WASHINGTON
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	29478853

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NAME OF SUBMITTER:	JOHN M. FLEMING
Signature:	/John M. Fleming/

PATENT 502636430 REEL: 031974 FRAME: 0486

Date:	01/15/2014
Total Attachments: 2 source=10050 assignment#page1.tif source=10050 assignment#page2.tif	

PATENT REEL: 031974 FRAME: 0487

<u>PATENT ASSIGNMENT</u>

("ASSIGNORS"), ha	Alan Herold, Nicholas R. Barling, Charla Pereira and Arianne Taylor ve invented subject matter ("INVENTION") disclosed and/or claimed in a https://doi.org/10.1007/https://doi
300000	ill be filed without this executed PATENT ASSIGNMENT.
A 0	SSIGNORS hereby authorize and request ASSIGNEE'S legal representatives, f Banner & Witcoff, LTD., 1100 13th Street NW, Suite 1200, Washington, DC 0005-4051, who are associated with customer number 28319, to insert here in arenthesis (U.S. Serial No $\frac{29/478,853}{}$, filed $\frac{1/9/14}{}$) this
Α	PPLICATION's U.S. Serial Number and filing date, when known;
Joseph W	as filed on , and was given U.S. Serial No.
local is	filed concurrently herewith;
and assigns ("ASSIC rights, title and inter- and patents derived	rporation, a Washington Corporation, on behalf of itself and its successors GNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive est in the INVENTION and the APPLICATION (and all other applications therefrom, such as continuing applications, in and for the United States, its reign countries ("APPLICATION DERIVATIVES"));
the ASSIGNORS, the entire and exclusive APPLICATION DER	
and prosecution of t regarding letters pat	S agree to execute all instruments and documents required for the making the APPLICATION (and APPLICATION DERIVATIVES), for litigation ent derived therefrom, and for the purpose of protecting and perfecting title N (and APPLICATION DERIVATIVES).
1/5/20	y Adres New Weld
DATE // /	// W / Jeffrey Alan Herold
0-192	OB NA
DATE	Nicheras R. Barling
DJ 2 1 1 100	
DATE	Charla Pereira
UNIE	A Citata refella
12/10/2013	: Aranno Ton
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PATENT REEL: 031974 FRAME: 0488

PATENT ASSIGNMENT

("ASSIGN patent ap	IORS"), have in	Herold, Nicholas R. Barling, Charla Pereira and Arianne Taylor vented subject matter ("INVENTION") disclosed and/or claimed in a limbsels of the control of	
	ASSIG of Ban 20005- parenti	filed without this executed PATENT ASSIGNMENT. SNORS hereby authorize and request ASSIGNEE'S legal representative iner & Witcoff, LTD., 1100 13th Street NW, Suite 1200, Washington, DC-4051, who are associated with customer number 28319, to insert here thesis (U.S. Serial No $\frac{29/478,853}{}$, filed $\frac{1/9/14}{}$) this CATION's U.S. Serial Number and filing date, when known;	
	III was file	ed on , and was given U.S. Serial No.	
	is filed	concurrently herewith;	
and assignights, title and pater territories the ASSI entire and APPLICA and proseregarding	ins ("ASSIGNEE e and interest in his derived there i, and all foreign or good and valu GNORS, the AS d exclusive right ATION DERIVAT SSIGNORS agn ecution of the Al I letters patent d	ation, a Washington Corporation, on behalf of itself and its successors E"), is entitled to, and is desirous of acquiring, the entire and exclusive in the INVENTION and the APPLICATION (and all other applications efrom, such as continuing applications, in and for the United States, its incountries ("APPLICATION DERIVATIVES")); uable consideration, the receipt of which is hereby acknowledged by SSIGNORS hereby sell, assign and transfer to the ASSIGNEE, the its, title and interest in the INVENTION and the APPLICATION (and ITVES); the to execute all instruments and documents required for the making PPLICATION (and APPLICATION DERIVATIVES), for litigation derived therefrom, and for the purpose of protecting and perfecting title and APPLICATION DERIVATIVES).	
to the AF	TLICATION (an	IU AFFLICATION DENIVATIVES).	
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DATE		Jeffrey Alan Herold	
DATE		Nicholas R. Bagifing	
01.	7.14	/Manualtxt:	
DATE		Charla Pereira	- 8
DATE		Arianne Taylor	

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RECORDED: 01/15/2014