502033741 08/22/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Shane Hartley	07/17/2012
Dana Ludwig	07/24/2012
Jason Cahill	08/22/2012

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:	29430157

CORRESPONDENCE DATA

 Fax Number:
 2028243001

 Phone:
 202-824-3000

Mail.

Correspondent Name: Banner & Witcoff, Ltd.

Address Line 1: 1100 13th Street, N.W.

Address Line 2: Suite 1200

Address Line 4: Washington, DISTRICT OF COLUMBIA 20005-4051

ATTORNEY DOCKET NUMBER:	013797.08194 JMF/LLS
NAME OF SUBMITTER:	John M. Fleming

Total Attachments: 3

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PATENT REEL: 028829 FRAME: 0968 CT \$40.00 Z8450

PATENT ASSIGNMENT

invented subject matter ("INVE	ney, Dana Ludwig, and Jason Canill, ("ASSIGNOR"), have NTION") disclosed and/or claimed in a patent application entitled partners ("APPLICATION"), which:
will be filed hereby auth Banner & V 20005-405 here in pare APPLICATI was filed or	without this executed PATENT ASSIGNMENT. ASSIGNOR norizes and requests ASSIGNEE'S legal representatives, of Vitcoff, LTD., 1100 13th Street NW, Suite 1200, Washington, DC 1, who are associated with customer number 28319, to insert enthesis (U.S. Serial No 29/430,157 , filed 8/22/12) this ION's U.S. Serial Number and filing date, when known; and was given U.S. Serial No.; currently herewith;
successors and assigns ("ASS and exclusive rights, title and in applications and patents derive	ration, a Washington Corporation, on behalf of itself and its IGNEE"), is entitled to, and is desirous of acquiring, the entire interest in the INVENTION and the APPLICATION (and all other detection, such as continuing applications, in and for the ad all foreign countries ("APPLICATION DERIVATIVES"));
For good and va acknowledged by the ASSIGN	aluable consideration, the receipt of which is hereby OR, the ASSIGNOR hereby sells, assigns and transfers to the clusive rights, title and interest in the INVENTION and the
making and prosecution of the	rees to execute all instruments and documents required for the APPLICATION (and APPLICATION DERIVATIVES), for litigation of therefrom, and for the purpose of protecting and perfecting title PLICATION DERIVATIVES).
7-17-2012 DATE	Shand Hartley
DATE	Dana Ludwig
DATE	Jason Cahill

PATENT ASSIGNMENT

invented subject matter ("INVI	tiey, Dana Ludwig, and Jason Canili, ("ASSIGNOR"), have :NTION") disclosed and/or claimed in a patent application entitled
	OMPUTER IMAGE" ("APPLICATION"), which:
hereby aut Banner & 1 20005-405 here in par APPLICAT was filed cor Microsoft Corpo successors and assigns ("ASS and exclusive rights, title and applications and patents deriv United States, its territories, a For good and v acknowledged by the ASSIGN ASSIGNEE, the entire and ex APPLICATION (and APPLICA ASSIGNOR ag making and prosecution of the	rees to execute all instruments and documents required for the APPLICATION (and APPLICATION DERIVATIVES), for litigation d therefrom, and for the purpose of protecting and perfecting title
DATE	Shane Hartley
07/24/2012	Danadulge
DATE	Dana Lutwig
DATE	Jason Cahill

PATENT REEL: 028829 FRAME: 0970

PATENT ASSIGNMENT

	rtley, Dana Ludwig, and Jason Cahill, ("ASSIGNOR"),	
	OMPUTER IMAGE" ("APPLICATION"), which:	
will be filed hereby aut Banner & V 20005-405 here in par APPLICAT was filed committee with the miles of the	d without this executed PATENT ASSIGNMENT. ASSISTANCE and requests ASSIGNEE'S legal representative Witcoff, LTD., 1100 13th Street NW, Suite 1200, Wash 51, who are associated with customer number 28319, the renthesis (U.S. Serial No. 29/430,157, filed 8/22/12 FION'S U.S. Serial Number and filing date, when known and was given U.S. Serial No.; incurrently herewith; oration, a Washington Corporation, on behalf of itself as	ves, of ington, DC o insert) this n;
successors and assigns ("ASS	SIGNEE"), is entitled to, and is desirous of acquiring, the	ne entire
and exclusive rights, title and	interest in the INVENTION and the APPLICATION (an red therefrom, such as continuing applications, in and f	o all other
United States its territories a	nd all foreign countries ("APPLICATION DERIVATIVE	S")):
	valuable consideration, the receipt of which is hereby	- ///
acknowledged by the ASSIGN	NOR, the ASSIGNOR hereby sells, assigns and transfe cclusive rights, title and interest in the INVENTION and	
ASSIGNOR ag	grees to execute all instruments and documents require	ed for the
making and prosecution of the	e APPLICATION (and APPLICATION DERIVATIVES),	for litigation
	ed therefrom, and for the purpose of protecting and per	fecting title
to the APPLICATION (and AP	PPLICATION DERIVATIVES).	
DATE	Shane Hartley	
DATE	Dana Ludwig	
0/00/0040	M Cliff	
8/22/2012	Joan 1 1 Colly	
DATE	Jason Cahill	

PATENT REEL: 028829 FRAME: 0971

RECORDED: 08/22/2012