### 504649057 11/17/2017

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4695778

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
RICHARD A. WALL	11/08/2017
DMITRY RESHIDKO	11/07/2017
JOSEPH LOWNEY	11/07/2017
RICHARD A. JAMES	11/14/2017

#### **RECEIVING PARTY DATA**

Name:	MICROSOFT TECHNOLOGY LICENSING, LLC
Street Address:	ONE MICROSOFT WAY
City:	REDMOND
State/Country:	WASHINGTON
Postal Code:	98052

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

Property Type	Number
Application Number:	15816770

#### **CORRESPONDENCE DATA**

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Correspondent Name: MICROSOFT CORPORATION

Address Line 1: ONE MICROSOFT WAY

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ATTORNEY DOCKET NUMBER:	403214-US-NP
NAME OF SUBMITTER:	KATHERINE WILSON
SIGNATURE:	/Katherine Wilson/
DATE SIGNED:	11/17/2017

**Total Attachments: 8** 

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PATENT 504649057 REEL: 044164 FRAME: 0959

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> PATENT REEL: 044164 FRAME: 0960

PATENT ASSIGNMENT MS Docket No.: 403214-US-NP

inventor of subject i	natter ("INVENTION") dis " <u>DISPLAY ALIGNMENT</u>	original inventor or an orig closed and/or claimed in TRACKING IN DISPLAY	a patent
ASSIGNEE LLC., One LEGAL RI on the follo	'S legal representative, N Microsoft Way, Redmond, EPRESENTATIVES), to inso and given Apowing Office	oy authorizes, and requesticrosoft Technology Licensi Washington 98052 (ASSIGNE ert here in parentheses (finally plication No) to g date, and Office, when know	ng, E'S led by his
	on and wa by the following: 		
behalf of itself and its so of acquiring, the entire priority, in the INVENTI derived therefrom, such United States, its territory.  ASSIGNOR hereb	uccessors and assigns ("AS e and exclusive rights, tit ON and the APPLICATION h as continuing application ories, and all foreign count by authorizes, and requests	ishington limited liability con is in the second is sentitled to, and is le and interest, including the second all other applications and it is, in whole or in part, in articles ("APPLICATION DERIVATION DERIVA	s desirous e right of id patents nd for the IVES")); NTATIVES
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Page 1 of 2

#### PATENT ASSIGNMENT

MS Docket No.: 403214-US-NP

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).

72. Kh Ww	11/8/(7
Inventor's Signature	Date
Richard A. Wall	
Printed Name in English	Printed Name in Native Language
	(if other than English)
I	FOR THE PERSONS IN THE STATE OF THE PERSONS ASSESSED.

	PATENT ASSIGNMENT MS Docket No.: 403214-US-NP
inventor of application	itry Reshidko ("ASSIGNOR") am the original inventor or an original joint subject matter ("INVENTION") disclosed and/or claimed in a patent entitled "DISPLAY ALIGNMENT TRACKING IN DISPLAY SYSTEMS" N"), which:
Algorithm (Algorithm)	
	will be filed. ASSIGNOR hereby authorizes, and requests,
	ASSIGNEE'S legal representative, Microsoft Technology Licensing,
	LLC., One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S
	LEGAL REPRESENTATIVES), to insert here in parentheses (filed
	onand given Application Noby
	the following Office
	APPLICATION's Application No., filing date, and Office, when known;
00000	was filed on and was given Application
	No by the following Office
	58 PL S
	oft Technology Licensing, LLC, a Washington limited liability company, on

Microsoft Technology Licensing, LLC, a Washington limited liability company, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the 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 hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known:

Application No.	•	Office
		= 1
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Page 1 of 2

#### PATENT ASSIGNMENT

MS Docket No.: 403214-US-NP

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).

January 1997	
	11/7/17
Inventor's Signature	Date
Omitry Reshidko	
Printed Name in English	Printed Name in Native Language
	(if other than English)

		r or an original joint inventor of subject	
	') disclosed and/or claimed in a paten		
ALIGNMENT TRACK	<u> ING IN DISPLAY SYSTEMS</u> " ("Al	PPLICATION"), which:	
$\boxtimes$	will be filed. ASSIGNOR hereby a	uthorizes, and requests, ASSIGNEE'S	
	•	Licensing, LLC., One Microsoft Way,	
		'S LEGAL REPRESENTATIVES), to	
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	by the following Office	) this	
APPLI	CATION's Application No., filing da	ite, and Office, when known;	
	was filed on and was	s given Application No	
_		",	
	by the following office _	,	
Microsoft Technology l	Licensing, LLC, a Washington limited	d liability company, on behalf of itself and	l its
		desirous of acquiring, the entire and	
	nd interest, including the right of prio		
	l other applications and patents deriv		
		s, its territories, and all foreign countries	
("APPLICATION DER	IVALIVES ));		
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For good and valuable o	consideration, the receipt of which is	hereby acknowledged by the ASSIGNOR	<b>?</b>
		SSIGNEE, ASSIGNOR's entire and exclus	
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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).

> **PATENT REEL: 044164 FRAME: 0965**

Inventor's Signature

Joseph Lowney

Printed Name in English

Date

2017-Nov-07

Printed Name in Native
Language
(if other than English)

PATENT REEL: 044164 FRAME: 0966

# PATENT ASSIGNMENT MS Docket No.: 403214-US-NP

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inventor of	subject matter ("l	NVENTION") disclosed a	inventor or an original join nd/or claimed in a patent IG IN DISPLAY SYSTEMS
("APPLICATIO		/ LIGHTWEIT THE CENT	IN DISTERNI
	ASSIGNEE'S legal r LLC., One Microsof LEGAL REPRESENT on the following Of	ASSIGNOR hereby authorepresentative, Microsoft tway, Redmond, Washing ATIVES), to insert here and given Application ffice and not, filing date, and given the two details are the two details and given the two details are	Technology Licensing, ton 98052 (ASSIGNEE'S in parentheses (filed Noby) this
		and was given A by the following Office ";	Application
behalf of itse of acquiring, priority, in the derived there	If and its successors the entire and exc ie INVENTION and the efrom, such as cont	s and assigns ("ASSIGNEE") clusive rights, title and in he APPLICATION (and all o inuing applications, in wh	limited liability company, or , is entitled to, and is desirous terest, including the right of other applications and patents nole or in part, in and for the PLICATION DERIVATIVES"));
to insert the		iling date, and Office into	EE'S LEGAL REPRESENTATIVES  o the following table for any
Application	No.	Filing Date	Office

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"));

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

Date

Richard A. James

Printed Name in English

Printed Name in Native Language

(if other than English)