#### 06/12/2018 504955700

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5002447

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
SCOTT PATRICK BOYD	09/07/2016
CHENGWU CUI	09/07/2016
SARAH GRABER	09/07/2016
BARRY JAMES O'BRIEN	09/07/2016
JOSHUA JOHN WATSON	09/07/2016
SCOTT MICHAEL WILCOX	09/07/2016

### **RECEIVING PARTY DATA**

Name:	AMAZON TECHNOLOGIES, INC.	
Street Address:	PO BOX 81226	
City:	SEATTLE	
State/Country:	WASHINGTON	
Postal Code:	98108-1226	

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

Property Type	Number
Application Number:	16006048

### **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: 415-576-0200

sathompson@kilpatricktownsend.com Email:

KILPATRICK TOWNSEND & STOCKTON LLP/ AMAZ **Correspondent Name:** 

1100 PEACHTREE STREET Address Line 1:

Address Line 2: **SUITE 2800** 

Address Line 4: ATLANTA, GEORGIA 30309

ATTORNEY DOCKET NUMBER:	EY DOCKET NUMBER: 090204-1089566 (097801US)	
NAME OF SUBMITTER:	SARAH THOMPSON	
SIGNATURE:	/Sarah Thompson/	
DATE SIGNED:	06/12/2018	

**PATENT** REEL: 046055 FRAME: 0957

504955700

### **Total Attachments: 9**

source=2018-06-12\_P33878-US01DIV\_090204-1089566-097801US\_XFORMALS#page1.tif source=2018-06-12\_P33878-US01DIV\_090204-1089566-097801US\_XFORMALS#page2.tif source=2018-06-12\_P33878-US01DIV\_090204-1089566-097801US\_XFORMALS#page3.tif source=2018-06-12\_P33878-US01DIV\_090204-1089566-097801US\_XFORMALS#page4.tif source=2018-06-12\_P33878-US01DIV\_090204-1089566-097801US\_XFORMALS#page5.tif source=2018-06-12\_P33878-US01DIV\_090204-1089566-097801US\_XFORMALS#page6.tif source=2018-06-12\_P33878-US01DIV\_090204-1089566-097801US\_XFORMALS#page7.tif source=2018-06-12\_P33878-US01DIV\_090204-1089566-097801US\_XFORMALS#page8.tif source=2018-06-12\_P33878-US01DIV\_090204-1089566-097801US\_XFORMALS#page8.tif source=2018-06-12\_P33878-US01DIV\_090204-1089566-097801US\_XFORMALS#page9.tif

PATENT REEL: 046055 FRAME: 0958

U.S. Patent Appln. No. 15/620,113 Attorney Docket No. 090204-1016846 (097800US) Filing Date September 8, 2016 Client Docket No. P33878-US PARTIES TO THE ASSIGNMENT Assignor(s): Scott Patrick Boyd Barry James O'Brien 410 Terry Avenue North 410 Terry Avenue North Seattle, WA 98109-5210 Seattle, WA 98109-5210 Chengwu Cui Joshua John Watson 410 Terry Avenue North 410 Terry Avenue North Seattle, WA 98109-5210 Seattle, WA 98109-5210 Sarah Graber Scott Michael Wilcox 410 Terry Avenue North 410 Terry Avenue North Seattle, WA 98109-5210 Seattle, WA 98109-5210 Assignee: Amazon Technologies, Inc. PO Box 81226 Seattle, WA 98108-1226 AGREEMENT WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled "OBSTACLE AWARENESS BASED GUIDANCE TO CLEAR LANDING SPACE" (Invention) for which a non-provisional application for United States Letters Patent (Application):

"OBSTACLE AWARENESS BASED GUIDANCE TO CLEAR LANDING SPACE" (Invention) for which a non-provisional application for United States Letters Patent (Application):

| was filed on \_\_\_\_\_\_ and accorded U.S. Application No. \_\_\_\_\_\_; or will be filed concurrently with the submission of this executed PATENT ASSIGNMENT for recordation.

ASSIGNOR(S) hereby authorizes and requests ASSIGNEE'S legal representatives, of <a href="Kilpatrick Townsend">Kilpatrick Townsend</a> & Stockton LLP, associated with Customer No. 107508, to insert in the header above and here in parentheses (U.S. Patent Application No. 15/620,113, filed September 8, 2016) this application's U.S. application number and filing date, when known.

Page 1 of 9

U.S. Patent Appln. No. 15/620,113

Attorney Docket No. 090204-1016846 (097800US)

Filing Date September 8, 2016

Client Docket No. P33878-US

Title of Invention: OBSTACLE AWARENESS BASED GUIDANCE TO CLEAR LANDING SPACE

Inventors: Scott Patrick Boyd, Chengwu Cui, Sarah Graber, Barry James O'Brien, Joshua John

Watson, Scott Michael Wilcox

WHEREAS, ASSIGNEE, a corporation of the State of Nevada, is desirous of acquiring the

entire right, title and interest in and to the Invention and in and to any letters patent that may

be granted therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of

which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE its

successors and assigns, the entire right, title and interest in and to said Invention and any

improvements thereto, said Application and any and all letters patent which may be granted for

said Invention in the United States of America and its territorial possessions and in any and all

foreign countries, and in any and all provisional, divisions, reissues, re-examinations and

continuations thereof, including the right to file foreign applications directly in the name of

ASSIGNEE and to claim priority rights deriving from said Application to which said foreign

applications are entitled by virtue of international convention, treaty or otherwise, said

Invention, Application and all letters patent on said Invention to be held and enjoyed by

ASSIGNEE and its successors and assigns for their use and benefit and of their successors and

assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had

this assignment, transfer and sale not been made. ASSIGNOR(5) hereby authorize and request

the Commissioner of Patents and Trademarks, as well as all other applicable patent offices

throughout the world, to issue all letters patent on said Invention to ASSIGNEE. ASSIGNOR(S)

agree to execute all instruments and documents required for the making and prosecution of

applications for United States and foreign letters patent on said Invention, for litigation

Page 2 of 9

PATENT REEL: 046055 FRAME: 0960

U.S. Patent Appln. No. 15/620,113

Attorney Docket No. 090204-1016846 (097800US)

Filing Date September 8, 2016

Client Docket No. P33878-US

Title of Invention: OBSTACLE AWARENESS BASED GUIDANCE TO CLEAR LANDING SPACE

Inventors: Scott Patrick Boyd, Chengwu Cui, Sarah Graber, Barry James O'Brien, Joshua John

Watson, Scott Michael Wilcox

regarding said letters patent, or for the purpose of protecting title to said Invention or letters

patent therefor.

AND ASSIGNOR(S) DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its

successors, legal representatives, and assigns all claims for damages and all remedies arising out

of any violation of the rights assigned hereby that may have accrued prior to the date of

assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue

for, collect, and retain damages for past infringements of said letters patent before or after

issuance.

AND ASSIGNOR(S) DOES HEREBY covenant and agree that ASSIGNOR(S) will

communicate to ASSIGNEE, its successors, legal representatives and assigns, any facts known to

ASSIGNOR respecting the Invention or said Application, and testify in any legal proceeding, assist

in the preparation of any other patent property relating to the Application and the Invention or

any improvements made thereto, sign/execute all lawful papers, provide all requested

documents, execute and make all rightful oaths and/or declarations in connection with the

Application and the Invention including any improvements made thereto, any patent

applications filed therefrom, and any continuing application filed from any of the

aforementioned applications, and generally do everything possible to aid ASSIGNEE, its

successors, legal representatives and assigns, to obtain and enforce proper patent protection for

the Invention in all countries. These provisions are binding upon ASSIGNOR's heirs, legal

representatives, administrators, and assigns.

Page 3 of 9

PATENT

REEL: 046055 FRAME: 0961

U.S. Patent Appln. No. <u>13/620,113</u>	Attorney Doc	ket No. <u>090204-1016</u>	<u>846 (09/800US)</u>
Filing Date <u>September 8,</u> 2016		Client Docke	t No. <u>P33878-US</u>
Title of Invention: OBSTACLE AWARENESS BA	ASED GUIDANCE	TO CLEAR LANDING S	<u>PACE</u>
Inventors: Scott Patrick Boyd, Chengwu Cui Watson, Scott Michael Wilcox	, Sarah Graber,	Barry James O'Brien	, Joshua John
<b>DECLARATION</b> As a below named inventor, I hereby declar	e that:		
This declaration is directed to:			
igstyle igstyle igstyle the attached application; or			
United States Patent Application	number	filed on	; or
PCT International Application nu	ımber	filed on	<del></del> '
The above-identified application was made	or authorized to	be made by me.	
I believe that I am the original inventor or an application.	n original joint ir	nventor of a claimed	Invention in the
I have reviewed and understand the conten	ts of the above-	identified application	, and
acknowledge the duty to disclose to the US	Patent & Trader	nark Office all inform	ation known to
me to be material to the patentability as de	fined in 37 CFR :	1.56.	
I hereby acknowledge that any willful false sunder 18 USC 1001 by fine or imprisonment			
Docusigned by:  /Scott Patrick Boyd/			
Scott Patrick Boyd			
September 7, 2016			
Date			

U.S. Patent Appln. No. <u>15/620,113</u>	Attorney Docket No. <u>090204-1016846 (097800US)</u>
Filing Date <u>September 8,</u> 2016	Client Docket No. <u>P33878-US</u>
Title of Invention: OBSTACLE AWARENESS BAS	ED GUIDANCE TO CLEAR LANDING SPACE
Inventors: Scott Patrick Boyd, Chengwu Cui, S Watson, Scott Michael Wilcox	Sarah Graber, Barry James O'Brien, Joshua John
DECLARATION	
As a below named inventor, I hereby declare	that:
This declaration is directed to:	
igstyle the attached application; or	
United States Patent Application r	number; or
PCT International Application num	ber filed on
The above-identified application was made or	authorized to be made by me.
I believe that I am the original inventor or an application.	original joint inventor of a claimed Invention in the
I have reviewed and understand the contents	of the above-identified application, and
acknowledge the duty to disclose to the US Pa	atent & Trademark Office all information known to
me to be material to the patentability as defir	ned in 37 CFR 1.56.
· · · · · · · · · · · · · · · · · · ·	stement made in this declaration is punishable
under 18 USC 1001 by fine or imprisonment of	f not more than five (5) years, or both.
DocuSigned by: // Lungwu (wi/	
September 7, 2016	
Date	

U.S. Patent Appln. No. <u>15/620,113</u>	Attorney Docket No. <u>090204-1016846 (097800US)</u>
Filing Date <u>September 8</u> , 2016	Client Docket No. <u>P33878-US</u>
Title of Invention: OBSTACLE AWARENESS BAS	ED GUIDANCE TO CLEAR LANDING SPACE
Inventors: Scott Patrick Boyd, Chengwu Cui, S Watson, Scott Michael Wilcox	arah Graber, Barry James O'Brien, Joshua John
DECLARATION	
As a below named inventor, I hereby declare	hat:
This declaration is directed to:	
igstyle igstyle igstyle the attached application; or	
United States Patent Application r	umber filed on; or
PCT International Application num	ber filed on
The above-identified application was made or	authorized to be made by me.
I believe that I am the original inventor or an application.	original joint inventor of a claimed Invention in the
I have reviewed and understand the contents	of the above-identified application, and
acknowledge the duty to disclose to the US Pa	tent & Trademark Office all information known to
me to be material to the patentability as defir	ed in 37 CFR 1.56.
I hereby acknowledge that any willful false sta	tement made in this declaration is punishable
under 18 USC 1001 by fine or imprisonment o	f not more than five (5) years, or both.
Docusigned by:  /Sarah Graber/	
September 7, 2016	
Date	

U.S. Patent Appln. No. <u>15/620,113</u>	Attorney Docket No. <u>090204-1016846 (097800US)</u>
Filing Date <u>September 8,</u> 2016	Client Docket No. <u>P33878-US</u>
Title of Invention: OBSTACLE AWARENESS BAS	ED GUIDANCE TO CLEAR LANDING SPACE
Inventors: Scott Patrick Boyd, Chengwu Cui, S Watson, Scott Michael Wilcox	Sarah Graber, Barry James O'Brien, Joshua John
<u>DECLARATION</u>	
As a below named inventor, I hereby declare	that:
This declaration is directed to:	
igotimes the attached application; or	
United States Patent Application r	number; or
PCT International Application num	ber filed on
The above-identified application was made or	authorized to be made by me.
I believe that I am the original inventor or an application.	original joint inventor of a claimed Invention in the
I have reviewed and understand the contents	of the above-identified application, and
acknowledge the duty to disclose to the US Pa	atent & Trademark Office all information known to
me to be material to the patentability as defir	ned in 37 CFR 1.56.
I hereby acknowledge that any willful false sta	itement made in this declaration is punishable
under 18 USC 1001 by fine or imprisonment o	f not more than five (5) years, or both.
Bocusigned by:  /Barry James O'Brien/  628908C73867409	
Barry James O'Brien	
September 7, 2016	
Date	

U.S. Patent Appln. No.	15/620,113	Attorney Docket No. <u>090204-1016846 (097800US)</u>
Filing Date September 8	3, 2016	Client Docket No. <u>P33878-US</u>
Title of Invention: OBS	TACLE AWARENES	S BASED GUIDANCE TO CLEAR LANDING SPACE
Inventors: Scott Patricl Watson, Scott Michael		Cui, Sarah Graber, Barry James O'Brien, Joshua John
DECLARATION		
As a below named inve	entor, I hereby de	clare that:
This declaration is direc	cted to:	
igwedge the attache	ed application; or	
United Stat	es Patent Applica	tion number filed on; or
PCT Interna	ational Application	n number filed on
		ade or authorized to be made by me.  or an original joint inventor of a claimed Invention in the
application.		
I have reviewed and ur	nderstand the con	stents of the above-identified application, and
acknowledge the duty	to disclose to the	US Patent & Trademark Office all information known to
me to be material to th	ne patentability as	s defined in 37 CFR 1.56.
-	•	Ise statement made in this declaration is punishable nent of not more than five (5) years, or both.
Docusigned by:  / Joshua John Wats	ion/	-
September 7, 2016		<u>.</u>
Date		

**RECORDED: 06/12/2018** 

# PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. <u>15/620,113</u>	Attorney Docket No. <u>090204-1016846 (097800US)</u>
Filing Date September 8, 2016	Client Docket No. <u>P33878-US</u>
Title of Invention: OBSTACLE AWARENESS BAS	ED GUIDANCE TO CLEAR LANDING SPACE
Inventors: Scott Patrick Boyd, Chengwu Cui, S Watson, Scott Michael Wilcox	iarah Graber, Barry James O'Brien, Joshua John
DECLARATION	
As a below named inventor, I hereby declare	hat:
This declaration is directed to:	
igstyle igstyle igstyle the attached application; or	
United States Patent Application r	umber filed on; or
PCT International Application num	ber filed on
The above-identified application was made or	authorized to be made by me.
I believe that I am the original inventor or an application.	original joint inventor of a claimed Invention in the
I have reviewed and understand the contents	of the above-identified application, and
acknowledge the duty to disclose to the US Pa	tent & Trademark Office all information known to
me to be material to the patentability as defir	ed in 37 CFR 1.56.
I hereby acknowledge that any willful false sta	itement made in this declaration is punishable
under 18 USC 1001 by fine or imprisonment o	f not more than five (5) years, or both.
DocuSigned by:  /Scott Michael Wilcop/	
Scott Michael Wilcox	
September 7, 2016	
Date	

Page 9 of 9

PATENT REEL: 046055 FRAME: 0967