504480958 07/31/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4527660

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
QUAIS TARAKI	12/05/2013
MATTHEW VAHLSING	01/06/2015
VINOD MURLI MAMTANI	12/12/2013
JAMES JONATHAN MORRIS	12/05/2013
GERARD JOSEPH HEINZ II	12/05/2013

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15664203

CORRESPONDENCE DATA

Fax Number: (215)568-3439

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: 215-568-3100

Email: eofficemonitor@bakerlaw.com

Correspondent Name: BAKER & HOSTETLER LLP - AMAZON

Address Line 1: 2929 ARCH STREET

Address Line 2: CIRA CENTRE, 12TH FLOOR

Address Line 4: PHILADELPHIA, PENNSYLVANIA 19104-2891

ATTORNEY DOCKET NUMBER:	P11652USCON1/101058000667
NAME OF SUBMITTER:	LAURA L. TAYLOR
SIGNATURE:	/Laura L. Taylor/
DATE SIGNED:	07/31/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT 504480958 REEL: 043144 FRAME: 0247

Total Attachments: 18 source=2017-07-31_P11652USCON1_101058_000667_Dec-Assignment_Signed#page1.tif source=2017-07-31 P11652USCON1 101058 000667 Dec-Assignment Signed#page2.tif source=2017-07-31 P11652USCON1 101058 000667 Dec-Assignment Signed#page3.tif source=2017-07-31 P11652USCON1 101058 000667 Dec-Assignment Signed#page4.tif source=2017-07-31 P11652USCON1 101058 000667 Dec-Assignment Signed#page5.tif source=2017-07-31 P11652USCON1 101058 000667 Dec-Assignment Signed#page6.tif source=2017-07-31 P11652USCON1 101058 000667 Dec-Assignment Signed#page7.tif source=2017-07-31 P11652USCON1 101058 000667 Dec-Assignment Signed#page8.tif source=2017-07-31 P11652USCON1 101058 000667 Dec-Assignment Signed#page9.tif source=2017-07-31 P11652USCON1 101058 000667 Dec-Assignment Signed#page10.tif source=2017-07-31_P11652USCON1_101058_000667_Dec-Assignment_Signed#page11.tif source=2017-07-31 P11652USCON1 101058 000667 Dec-Assignment Signed#page12.tif source=2017-07-31 P11652USCON1 101058 000667 Dec-Assignment Signed#page13.tif source=2017-07-31 P11652USCON1 101058 000667 Dec-Assignment Signed#page14.tif source=2017-07-31_P11652USCON1_101058_000667_Dec-Assignment_Signed#page15.tif source=2017-07-31_P11652USCON1_101058_000667_Dec-Assignment_Signed#page16.tif source=2017-07-31 P11652USCON1 101058 000667 Dec-Assignment Signed#page17.tif source=2017-07-31 P11652USCON1 101058 000667 Dec-Assignment Signed#page18.tif

U.S. Patent Applin. No. <u>14/077,146</u> Filing Date <u>November 11, 2013</u> Attorney Docket No. AMAZ-0129 Client Docket No. P11632-US

PARTIES TO THE ASSIGNMENT

Assignor(s):

QUAIS TARAKI 410 Terry Avenue North Senttle, WA 98109-5210

MATT VAHLSING 410 Terry Avenue North Seattle, WA 98109-5210

VINOD MURLI MAMTANI 410 Terry Avenue North Sentile, WA 98109-5210

JAMES JONATHAN MORRIS 410 Terry Avenue North Seattle, WA 98109-5210

GERARD JOSEPH HEINZ, II 410 Terry Avenue North Seattle, WA 98109-5210

recordation.

Assignee: Amazon Technologies, Inc. PO Box 8102 Reno, NV 89507

AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled

"SESSION IDLE OPTIMIZATION FOR STREAMING SERVER" (Invention) for which a nonprovisional application for United States Letters Patent

| Was filed on November 11, 2013 and accorded U.S. application no. 14/077,146; or
| will be filed concurrently with the submission of this executed PATENT ASSIGNMENT for

Page 1 of 9

U.S. Patent Appln. No. 14/077,146 Filing Date November 11, 2013

Attorney Docket No. AMAZ-0129 Client Docket No. P1 1652-US

ASSIGNOR(S) hereby authorizes and requests ASSIGNEE'S logal representatives, of

Woodcock Washburn LLP, associated with Customer No. 23377, to insert in the header above and here in

parentheses (U.S. application no. 14/077.146, filed November 11, 2013) this application's U.S.

application number and filing date, when known.

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(S) hereby authorize and request the Commissioner of Patents and

Trademarks 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

Page 2 of 9

U.S. Patent Appln. No. <u>14/077,146</u> Filing Date <u>November 11, 2013</u> Attorney Docket No. AMAZ-0129 Client Docket No. P11652-US

and foreign letters patent on said Invention, for litigation 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 said 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 the 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 our heirs, legal representatives, administrators, and assigns.

Page 3 of 9

U.S. Patent Appln. No. <u>14/077,146</u> Filing Date <u>November 11, 2013</u> Attorney Docket No. <u>AMAZ-0129</u> Client Docket No. <u>P11652-US</u>

CORRESPONDENCE ADDRESS

I hereby direct all correspondence and telephone calls in connection with this application be addressed to the number associated with the customer number listed below, which is:

Customer No. 23377

Page 4 of 9

U.S. Patent Appln. No. 14/077,146 Filing Date November 11, 2013 Attorney Docket No. <u>AMAZ-0129</u> Client Docket No. <u>P11652-US</u>

<u>DECLARATION</u>	
As a below named inventor, I hereby declare that:	
This declaration is directed to:	
the attached application; or	
United States application number 14/6	977,146 filed on <u>November 11, 2013;</u> or
PCT international application number	filed on
The above-identified application was made or aut	horized to be made by me.
I believe that I am the original inventor or an orig	inal joint inventor of a claimed Invention in the
	e above-identified application, and acknowledge the Tice all information known to me to be material to the
I hereby neknowledge that any willful false staten USC 1001 by fine or imprisonment of not more the	nent made in this declaration is punishable under 18 ian five (5) years, or both.
Legal name of inventor: QUAIS TARAKI	
12/05/2013	2
Date	Inventor Signature
Merapocos by.	
WITNESSED BY:	
Date State S	Witness (Signature)
	Marie Carlotte Comment

Page 5 of 9

Witness (Printed Name)

U.S. Patent Appln. No. 14/077,146 Filing Date November 11, 2013 Attorney Docket No. <u>AMAZ-0129</u> Client Docket No. <u>P11652-US</u>

<u>DECLARATION</u>	
As a below named inventor, I hereby declare t	lint:
This declaration is directed to:	
the attached application; or	
United States application number J	4/077,146 filed on November 11, 2013; or
PCT international application num	berfiled on
The above-identified application was made or	authorized to be made by me.
I believe that I am the original inventor or an capplication.	original joint inventor of a claimed lavention in the
I have reviewed and understand the contents o	f 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 the
patentability as defined 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 of not mor	e than five (5) years, or both.
Legal name of inventor: MATT VAHLSING	;
Date	Inventor Signature
WITNESSED BY:	
Date	Witness (Signature)
	Witness (Printed Name)

Page 6 of 9

U.S. Patent Appln. No. <u>14/077,146</u> Filing Date <u>November 11, 2013</u> Attorney Docket No. <u>AMAZ-0129</u> Client Docket No. <u>P11632-US</u>

<u>DECLARATION</u>	
As a below named inventor, I hereby declare that:	
This declaration is directed to:	
the attached application; or	
☑ United States application number 14/07	7,146 filed on <u>November 11, 2013;</u> or
PCT international application number	filed on
The above-identified application was made or authorized	orized to be made by me.
I believe that I am the original inventor or an origin application.	al joint inventor of a claimed Invention in the
I have reviewed and understand the contents of the duty to disclose to the US Patent & Trademark Offi patentability as defined in 37 CFR 1.56.	
I hereby acknowledge that any willful false stateme USC 1001 by fine or imprisonment of not more tha	
Legal name of inventor: VINOD MURLI MAMT	
12 12 20 3 Date	Man (Inventor Signature
WITNESSED BY: Date	Witness (Signature)

Page 7 of 9

Witness (Printed Name)

U.S. Patent Appln. No. 14/077,146 Filing Date November 11, 2013 Attorney Docket No. AMAZ-0129 Client Docket No. P11652-US

THING CHIEC PROTERINGS 111. EQ 13	Chem Mother Int. [11025-000
<u>DECLARATION</u>	
As a below named inventor, I hereby declare	that:
This declaration is directed to:	
the attached application; or	
United States application number	r <u>14/077,146</u> filed on <u>November 11, 2013;</u> or
PCT international application on	mberfiled on
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I hereby acknowledge that any willful false :	statement made in this declaration is punishable under 18
USC 1001 by fine or imprisonment of not m	ore than five (5) years, or both.
Legal name of inventor: JAMES JONATH	IAN MORRIS
Decomber 5, 2013	
Date	Inventor Signature
	,min)
WITNESSED BY:	£.42
<u> </u>	
Date	Witness (Signature)

Page 8 of 9

Atterney Docket No. AMAZ-0129 Client Docket No. P11652-US U.S. Patent Appln. No. 14/077,146 Filing Date November 11, 2013 DECLARATION As a below named inventor, I hereby declare that: This declaration is directed to: the attached application; or United States application number 14/077, 146 filed on November 11, 2013; or PCT international application number ______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 original joint inventor of a claimed invention in the application. I have reviewed and understand the contents 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 the patentability as defined in 37 CFR 1.56. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both. Legal name of inventor: GERARD JOSEPH HEINZ, H Inventor Signature WITNESSED BY:

Page 9 of 9

Date

U.S. Patent Appln. No. 14/077,146 Filing Date November 11, 2013 Attorney Docket No. AMAZ-0129 Client Docket No. P11652-US

PARTIES TO THE ASSIGNMENT

Assignor(s):

QUAIS TARAKI 410 Terry Avenue North Seattle, WA 98109-5210

MATTHEW VAHLSING 410 Terry Avenue North Seattle, WA 98109-5210

VINOD MURLI MAMTANI 410 Terry Avenue North Seattle, WA 98109-5210

JAMES JONATHAN MORRIS 410 Terry Avenue North Seattle, WA 98109-5210

GERARD JOSEPH HEINZ, II 410 Terry Avenue North Seattle, WA 98109-5210

Assignee: Amazon Technologies, Inc. PO Box 8102 Reno, NV 89507

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WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled

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Ø	was file	ed on	November I	1,2013	and accord	led U.S. a	pplication	no. <u>14/07</u>	<u>7.146</u> ; or	r
	will be	filed	concurrently	with th	e submissi	on of thi	s executed	PATENT	' ASSIGN	VMENT fo
	recorda	ition.								

Page 1 of 9

U.S. Patent Appln. No. 14/077,146
Filing Date November 11, 2013

Attorney Docket No. AMAZ-0129 Client Docket No. P11652-US

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Woodcock Washburn LLP, associated with Customer No. 23377, to insert in the header above and here in

parentheses (U.S. application no. 14/077,146, filed November 11, 2013) this application's U.S.

application number and filing date, when known.

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

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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(S) hereby authorize and request the Commissioner of Patents and

Trademarks to issue all letters patent on said Invention to ASSIGNEE. ASSIGNOR(S) agree to execute

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Page 2 of 9

U.S. Patent Appln. No. 14/077,146 Filing Date November 11, 2013 Attorney Docket No. <u>AMAZ-0129</u> Client Docket No. <u>P11652-US</u>

and foreign letters patent on said invention, for litigation 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 said 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 the 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 our heirs, legal representatives,

administrators, and assigns.

CORRESPONDENCE ADDRESS

Page 3 of 9

U.S. Patent Appln. No. <u>14/077,146</u> Filing Date <u>November 11, 2013</u> Attorney Docket No. <u>AMAZ-0129</u> Client Docket No. <u>P11652-US</u>

I hereby direct all correspondence and telephone calls in connection with this application be addressed to the number associated with the customer number listed below, which is:

Customer No.

23377

Page 4 of 9

U.S. Patent Appln. No. <u>14/077,146</u> Filing Date <u>November 11, 2013</u> Attorney Docket No. <u>AMAZ-0129</u> Client Docket No. <u>P11652-US</u>

DECLARATION As a below named inventor, I hereby declare that: This declaration is directed to: the attached application; or United States application number 14/077,146 filed on November 11, 2013; or PCT international application number ______ 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 original joint inventor of a claimed Invention in the application. I have reviewed and understand the contents 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 the patentability as defined in 37 CFR 1.56. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both. Legal name of inventor: QUAIS TARAKI Inventor Signature Date WITNESSED BY: Witness (Signature) Date Witness (Printed Name)

Page 5 of 9

U.S. Patent Appln. No. 14/077,146 Filing Date November 11, 2013 Attorney Docket No. <u>AMAZ-0129</u> Client Docket No. <u>P11652-US</u>

<u>DECLARATION</u>	
As a below named inventor, I hereby declare	e that:
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The above-identified application was made o	or authorized to be made by me.
I believe that I am the original inventor or an application.	n original joint inventor of a claimed Invention in the
	of the above-identified application, and acknowledge the ark Office all information known to me to be material to the
I hereby acknowledge that any willful false s USC 1001 by fine or imprisonment of not m	statement made in this declaration is punishable under 18 ore than five (5) years, or both.
Legal name of inventor: VINOD MURLI	MAMTANI
Date	Inventor Signature
WITNESSED BY:	
Date	Witness (Signature)
	Witness (Printed Name)

Page 7 of 9

U.S. Patent Appln. No. 14/077,146 Filing Date November 11, 2013 Attorney Docket No. <u>AMAZ-0129</u> Client Docket No. <u>P11652-US</u>

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Page 8 of 9

Witness (Printed Name)

U.S. Patent Appln. No. 14/077,146 Filing Date November 11, 2013 Attorney Docket No. <u>AMAZ-0129</u> Client Docket No. <u>P11652-US</u>

DECLARATION	Criedic Docket INB. <u>P11632-US</u>
As a below named inventor, I hereby declare that:	
This declaration is directed to:	
the attached application; or	
☑ United States application number 14/07	7.146 filed on <u>November 11, 2013:</u> or
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The above-identified application was made or authorized	orized to be made by me.
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USC 1001 by fine or imprisonment of not more tha	n five (5) years, or both.
Legal name of inventor: GERARD JOSEPH HEI	NZ, II
Date	Inventor Signature
WITNESSED BY:	
Date	Witness (Signature)
	Witness (Printed Name)

Page 9 of 9

U.S. Patent Appln. No. 14/077,146 Filing Date November 11, 2013 Attomey Docket No. <u>AMAZ-0129</u> Client Docket No. <u>P11652-US</u>

DECLARATION	
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☑ United States application number 14/07	7,146 filed on <u>November 11, 2013;</u> or
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I believe that I am the original inventor or an origina	al joint inventor of a claimed Invention in the
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I hereby acknowledge that any willful false stateme	nt made in this declaration is punishable under 18
USC 1001 by fine or imprisonment of not more than	n five (5) years, or both.
Legal name of inventor: MATTHEW VAHLSING	}
15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ja 11/12 -
194 1/6/15 Date	Inventor Signatur
waxe	
WITNESSED RV:	
1/2/25	
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7 7	
	Witness (Printed Name)

Page 6 of 9

PATENT REEL: 043144 FRAME: 0266

RECORDED: 07/31/2017