

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4249380

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LEI LI	05/22/2014
ANDREW JASON MA	05/22/2014
GURPREET SINGH AHLUWALIA	05/22/2014
ABHISHEK DUBEY	06/05/2014
SACHIN SHAH	05/23/2014
VIJAY SEN	05/22/2014
GREGORY SCOTT BENJAMIN	05/22/2014
PRATEEK RAMESHCHANDRA SHAH	05/22/2014
CODY WAYNE MAXWELL POWELL	05/22/2014
MELTEM CELIKEL	05/22/2014
DARRYL HUDGIN	05/22/2014
JAMES MARVIN FREEMAN II	11/17/2016
AARON M. BROMBERG	11/17/2016
BRYANT F. HERRON-PATMON	11/17/2016
NUSH KARMACHARYA	11/17/2016
JOSHUA B. BARNARD	11/17/2016
PETER WEI-CHIH CHEN	11/17/2016
STEPHEN A. SLOTNICK	11/17/2016
ANDREW J. WATTS	11/17/2016
RICHARD J. WINOGRAD	12/01/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	AMAZON TECHNOLOGIES, INC.
<b>Street Address:</b>	P.O. BOX 81226
<b>City:</b>	SEATTLE
<b>State/Country:</b>	WASHINGTON
<b>Postal Code:</b>	98108-1226
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15399184

**CORRESPONDENCE DATA****Fax Number:** (770)951-0933*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:** 7709339500**Email:** tina.schafer@thomashorstemeyer.com**Correspondent Name:** THOMAS B. HILDEBRANDT**Address Line 1:** 400 INTERSTATE NORTH PARKWAY**Address Line 2:** SUITE 1500**Address Line 4:** ATLANTA, GEORGIA 30339

<b>ATTORNEY DOCKET NUMBER:</b>	170116-1131
<b>NAME OF SUBMITTER:</b>	THOMAS B. HILDEBRANDT
<b>SIGNATURE:</b>	/Thomas B. Hildebrandt/
<b>DATE SIGNED:</b>	01/30/2017

**Total Attachments: 28**

source=Assignment-Statement#page1.tif  
source=Assignment-Statement#page2.tif  
source=Assignment-Statement#page3.tif  
source=Assignment-Statement#page4.tif  
source=Assignment-Statement#page5.tif  
source=Assignment-Statement#page6.tif  
source=Assignment-Statement#page7.tif  
source=Assignment-Statement#page8.tif  
source=Assignment-Statement#page9.tif  
source=Assignment-Statement#page10.tif  
source=Assignment-Statement#page11.tif  
source=Assignment-Statement#page12.tif  
source=Assignment-Statement#page13.tif  
source=Assignment-Statement#page14.tif  
source=Assignment-Statement#page15.tif  
source=Assignment-Statement#page16.tif  
source=Assignment-Statement#page17.tif  
source=Assignment-Statement#page18.tif  
source=Assignment-Statement#page19.tif  
source=Assignment-Statement#page20.tif  
source=Assignment-Statement#page21.tif  
source=Assignment-Statement#page22.tif  
source=Assignment-Statement#page23.tif  
source=Assignment-Statement#page24.tif  
source=Assignment-Statement#page25.tif  
source=Assignment-Statement#page26.tif  
source=Assignment-Statement#page27.tif  
source=Assignment-Statement#page28.tif

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**PARTIES TO THE ASSIGNMENT**

**Assignor(s):**

**LEI LI**

410 Terry Avenue North  
Seattle, WA 98109-5210

**ANDREW JASON MA**

410 Terry Avenue North  
Seattle, WA 98109-5210

**GURPREET SINGH AHLUWALIA**

410 Terry Avenue North  
Seattle, WA 98109-5210

**ABHISHEK DUBEY**

410 Terry Avenue North  
Seattle, WA 98109-5210

**SACHIN SHAH**

410 Terry Avenue North  
Seattle, WA 98109-5210

**VIJAY SEN**

410 Terry Avenue North  
Seattle, WA 98109-5210

**GREGORY SCOTT BENJAMIN**

410 Terry Avenue North  
Seattle, WA 98109-5210

**PRATEEK RAMESHCHANDRA SHAH**

410 Terry Avenue North  
Seattle, WA 98109-5210

**CODY WAYNE MAXWELL POWELL**

410 Terry Avenue North  
Seattle, WA 98109-5210

**MELTEM CELIKEL**

410 Terry Avenue North  
Seattle, WA 98109-5210

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**DARRYL HUDGIN**  
410 Terry Avenue North  
Seattle, WA 98109-5210

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

**AGREEMENT**

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled  
"CLIENT-SIDE PREDICTIVE CACHING FOR CONTENT" for which a non-provisional application for  
United States Letters Patent

- ☒ was filed on May 9, 2014 and accorded U.S. application no. 14/274,121; or  
☐ will be filed concurrently with the submission of this executed PATENT ASSIGNMENT for  
recording.

ASSIGNOR(S) hereby authorizes and requests ASSIGNEE'S legal representatives, of  
Thomas | Horstemeyer, LLP, associated with Customer No. 71247, to insert in the header above and here  
in parentheses (U.S. application no. 14/274,121, filed May 9, 2014) this application's U.S. application  
number and filing date, when known.

WHEREAS, Amazon Technologies, Inc. (hereinafter referred to as 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;

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

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 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.

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

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**

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.**

**71247**

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or  
☒ United States application number 14/274,121 filed on May 9, 2014; or  
☐ PCT international application number \_\_\_\_\_ filed on \_\_\_\_\_.

The above-identified application was made or authorized to be made by me.

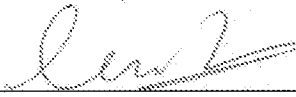
I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

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.

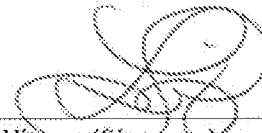
Legal name of inventor: **LEI LI**

5/22/2014  
Date

  
Inventor Signature

**WITNESSED BY:**

May 22, 14  
Date

  
Witness (Signature)  
Lisa Drezus  
Witness (Printed Name)

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or  
☒ United States application number 14/274,121 filed on May 9, 2014; 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: **ANDREW JASON MA**

5/22/2014  
Date

[Signature]  
Inventor Signature

**WITNESSED BY:**

May 22, 14  
Date

[Signature]  
Witness (Signature)

Lisa Drezner  
Witness (Printed Name)



**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or  
☒ United States application number 14/274,121 filed on May 9, 2014; 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: **GURPREET SINGH AHLUWALIA**

05/22/2014  
Date

Gurpreet  
Inventor Signature

**WITNESSED BY:**

May 22, 14  
Date

[Signature]  
Witness (Signature)  
Lisa Dvorhes  
Witness (Printed Name)

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or  
☒ United States application number 14/274,121 filed on May 9, 2014; or  
☐ PCT international application number \_\_\_\_\_ filed on \_\_\_\_\_.

The above-identified application was made or authorized to be made by me.

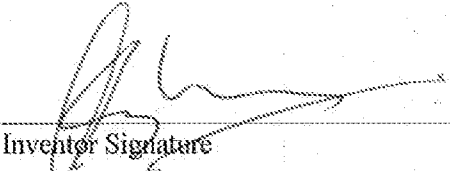
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

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.

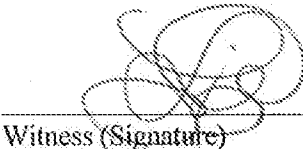
Legal name of inventor: **ABHISHEK DUBEY**

6/5/14  
Date

  
Inventor Signature

**WITNESSED BY:**

JUNE 5, 14  
Date

  
Witness (Signature)  
Visa Dnezhko  
Witness (Printed Name)

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or  
☒ United States application number 14/274,121 filed on May 9, 2014; 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: **SACHIN SHAH**

5/23/2014  
Date

Sachin K. Shah  
Inventor Signature

**WITNESSED BY:**

May 23, 14  
Date

[Signature]  
Witness (Signature)  
Lisa Brookes  
Witness (Printed Name)

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or  
☒ United States application number 14/274,121 filed on May 9, 2014; 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: **VIJAY SEN**

05/22/2014  
Date

Vijay Sen  
Inventor Signature

**WITNESSED BY:**

May 23, 14  
Date

[Signature]  
Witness (Signature)  
Lisa Drezner  
Witness (Printed Name)

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or  
☒ United States application number 14/274,121 filed on May 9, 2014; 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: **GREGORY SCOTT BENJAMIN**

5/22/2014  
Date

[Signature]  
Inventor Signature

**WITNESSED BY:**

May 22, 14  
Date

[Signature]  
Witness (Signature)

Lisa Duesner  
Witness (Printed Name)

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or  
☒ United States application number 14/274,121 filed on May 9, 2014; 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.

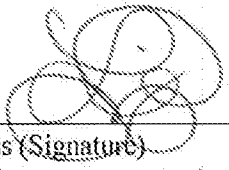
Legal name of inventor: **PRATEEK RAMESHCHANDRA SHAH**

05/22/2014  
Date

  
Inventor Signature

**WITNESSED BY:**

May 22, 14  
Date

  
Witness (Signature)  
Visa Drezner  
Witness (Printed Name)

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or  
☒ United States application number 14/274,121 filed on May 9, 2014; 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: **CODY WAYNE MAXWELL POWELL**

5/22/2014  
Date

Cody W Powell  
Inventor Signature

**WITNESSED BY:**

May 22, 14  
Date

[Signature]  
Witness (Signature)  
Lisa Drezner  
Witness (Printed Name)

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or  
☒ United States application number 14/274,121 filed on May 9, 2014; or  
☐ PCT international application number \_\_\_\_\_ filed on \_\_\_\_\_.

The above-identified application was made or authorized to be made by me.

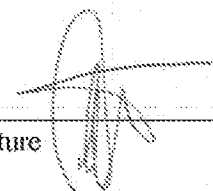
I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

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: **MELTEM CELIKEL**

5/22/2014  
Date

  
Inventor Signature

**WITNESSED BY:**

May 22, 14  
Date

  
Witness (Signature)

Lisa Drezner  
Witness (Printed Name)



**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or  
☒ United States application number 14/274,121 filed on May 9, 2014; or  
☐ PCT international application number \_\_\_\_\_ filed on \_\_\_\_\_.

The above-identified application was made or authorized to be made by me.

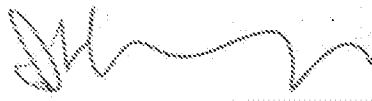
I believe that I am the original inventor or an original joint inventor of a claimed Invention in the application.

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.

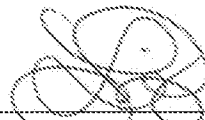
Legal name of inventor: **DARRYL HUDGIN**

5/22/2014  
Date

  
Inventor Signature

**WITNESSED BY:**

May 22, 14  
Date

  
Witness (Signature)  
Lisa Brezner  
Witness (Printed Name)

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**PARTIES TO THE ASSIGNMENT**

Assignor(s):

**JAMES MARVIN FREEMAN, II**  
410 Terry Avenue North  
Seattle, WA 98109-5210

**AARON M. BROMBERG**  
410 Terry Avenue North  
Seattle, WA 98109-5210

**BRYANT F. HERRON-PATMON**  
410 Terry Avenue North  
Seattle, WA 98109-5210

**NUSH KARMACHARYA**  
410 Terry Avenue North  
Seattle, WA 98109-5210

**JOSHUA B. BARNARD**  
410 Terry Avenue North  
Seattle, WA 98109-5210

**PETER WEI-CHIH CHEN**  
410 Terry Avenue North  
Seattle, WA 98109-5210

**STEPHEN A. SLOTNICK**  
410 Terry Avenue North  
Seattle, WA 98109-5210

**ANDREW J. WATTS**  
410 Terry Avenue North  
Seattle, WA 98109-5210

**RICHARD J. WINOGRAD**  
410 Terry Avenue North  
Seattle, WA 98109-5210

Assignee:

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

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**AGREEMENT**

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled  
“CLIENT-SIDE PREDICTIVE CACHING FOR CONTENT” for which a non-provisional application for  
United States Letters Patent

- ☒ was filed on May 9, 2014 and accorded U.S. application no. 14/274,121; or
- ☐ will be filed concurrently with the submission of this executed PATENT ASSIGNMENT for  
recording.

ASSIGNOR(S) hereby authorizes and requests ASSIGNEE’S legal representatives, of  
Thomas | Horstemeyer, LLP, associated with Customer No. 71247, to insert in the header above and here  
in parentheses (U.S. application no. 14/274,121, filed May 9, 2014) this application’s U.S. application  
number and filing date, when known.

WHEREAS, Amazon Technologies, Inc. (hereinafter referred to as 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,

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

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 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

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

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**

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:

<b>Customer No.</b> <b>71247</b>
-------------------------------------

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or  
☒ United States application number 14/274,121 filed on May 9, 2014; 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: **JAMES MARVIN FREEMAN, II**

November 17, 2016

Date

DocuSigned by:

*James Marvin Freeman II*

331BD14B920A4FC...

Inventor Signature

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or  
☒ United States application number 14/274,121 filed on May 9, 2014; 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: **AARON M. BROMBERG**

November 17, 2016

Date

DocuSigned by:  
*Aaron Michael Bromberg*  
B01164F732A64C6...  
Inventor Signature

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or  
☒ United States application number 14/274,121 filed on May 9, 2014; 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: **BRYANT F. HERRON-PATMON**

November 17, 2016

Date

DocuSigned by:  
Bryant F. Herron-Patmon  
331D1B26AAE7411...  
Inventor Signature



**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or  
☒ United States application number 14/274,121 filed on May 9, 2014; 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: **NUSH KARMACHARYA**

November 17, 2016

Date

DocuSigned by:

*/Nush Karmacharya/*

FEC46FEDE6D042B...

Inventor Signature

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or  
☒ United States application number 14/274,121 filed on May 9, 2014; 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: **JOSHUA B. BARNARD**

November 17, 2016

Date

DocuSigned by:  
*Joshua B. Barnard*  
FE2B832B6D57490...  
Inventor Signature

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or  
☒ United States application number 14/274,121 filed on May 9, 2014; 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: **PETER WEI-CHIH CHEN**

November 17, 2016

Date

DocuSigned by:  
*Peter Wei-Chih Chen*  
0A511085D8054F5...  
Inventor Signature

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or  
☒ United States application number 14/274,121 filed on May 9, 2014; 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: **STEPHEN A. SLOTNICK**

November 17, 2016

Date

DocuSigned by:  
*Stephen A. Slotnick*  
EF205A9EB700429...  
Inventor Signature

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or  
☒ United States application number 14/274,121 filed on May 9, 2014; 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: **ANDREW J. WATTS**

November 17, 2016

Date

DocuSigned by:

*Andrew J. Watts*

87A5CD29678C4C4...

Inventor Signature

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. 14/274,121  
Filing Date May 9, 2014

Attorney Docket No. 170116-1130  
Client Docket No. PM7888-US

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application; or  
☒ United States application number 14/274,121 filed on May 9, 2014; 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: **RICHARD J. WINOGRAD**

December 1, 2016

Date

DocuSigned by:  
*Richard J. Winograd*  
065ECA640C2406...  
Inventor Signature