### 506085820 06/02/2020

# **PATENT ASSIGNMENT COVER SHEET**

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6132537

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
TATE ANDREW CERTAIN	05/13/2020
JAMES CHRISTOPHER SORENSON III	05/11/2020
SHARATKUMAR NAGESH KUPPAHALLY	05/11/2020
AKSHAT VIG	05/11/2020
GO HORI	05/11/2020
CHASE KERNAN	05/11/2020
NAVEEN GANAPATHI SUBRAMANIAN	05/11/2020
NICHOLAS GORDON	05/13/2020

#### **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:	15717614

### **CORRESPONDENCE DATA**

**Fax Number:** (512)853-8801

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ATTORNEY DOCKET NUMBER:	6924-58500
NAME OF SUBMITTER:	ROBERT C. KOWERT
SIGNATURE:	/Robert C. Kowert/

PATENT 506085820 REEL: 052808 FRAME: 0986

DATE SIGNED:	06/02/2020
	This document serves as an Oath/Declaration (37 CFR 1.63).
otal Attachments: 11	
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U.S. Patent Appln. No. <u>15/717,614</u> Attorney Docket No. <u>6924-58500</u>

Filing Date September 27, 2017 Client Docket No. P41996-US

#### **PARTIES TO THE ASSIGNMENT**

#### Assignor(s):

**Tate Andrew Certain** 410 Terry Avenue North Seattle, WA 98109-5210

James Christopher Sorenson III 410 Terry Avenue North Seattle, WA 98109-5210

Sharatkumar Nagesh Kuppahally 410 Terry Avenue North Seattle, WA 98109-5210

**Akshat Vig** 410 Terry Avenue North Seattle, WA 98109-5210

Assignee: Amazon Technologies, Inc. PO Box 81226 Seattle, WA 98108-1226

#### Go Hori

410 Terry Avenue North Seattle, WA 98109-5210

**Chase Kernan** 410 Terry Avenue North Seattle, WA 98109-5210

Naveen Ganapathi Subramanian 410 Terry Avenue North Seattle, WA 98109-5210

**Nicholas Gordon** 410 Terry Avenue North Seattle, WA 98109-5210

#### **AGREEMENT**

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

"EFFICIENT DATABASE SNAPSHOT GENERATION" (Invention) for which a non-provisional application for United States Letters Patent (Application):

Was filed on September 27, 2017 and accorded U.S. Application No. 15/717,614; 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

Page 1 of 11

U.S. Patent Appln. No. 15/717,614

Attorney Docket No. 6924-58500

Filing Date September 27, 2017

Client Docket No. P41996-US

Title of Invention: EFFICIENT DATABASE SNAPSHOT GENERATION

Inventors: Tate Andrew Certain, James Christopher Sorenson III, Sharatkumar Nagesh Kuppahally, Akshat Vig, Go Hori, Chase Kernan, Naveen Ganapathi Subramanian, Nicholas

Gordon,

Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C., associated with Customer No. 136594, to insert

in the header above and here in parentheses (U.S. Patent Application No. 15/717,614, filed

September 27, 2017) 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(5) had this assignment,

transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner

of Patents and Trademarks, as well as all other applicable patent offices throughout the world, to

Page 2 of 11

U.S. Patent Appln. No. 15/717,614

Attorney Docket No. 6924-58500

Filing Date September 27, 2017

Client Docket No. P41996-US

Title of Invention: EFFICIENT DATABASE SNAPSHOT GENERATION

Inventors: Tate Andrew Certain, James Christopher Sorenson III, Sharatkumar Nagesh Kuppahally, Akshat Vig, Go Hori, Chase Kernan, Naveen Ganapathi Subramanian, Nicholas

Gordon,

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 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

Page 3 of 11

Date

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

U.S. Patent Appln. No. 15/717,614 Attorney Docket No. 6924-58500 Filing Date September 27, 2017 Client Docket No. P41996-US Title of Invention: EFFICIENT DATABASE SNAPSHOT GENERATION Inventors: Tate Andrew Certain, James Christopher Sorenson III, Sharatkumar Nagesh Kuppahally, Akshat Vig, Go Hori, Chase Kernan, Naveen Ganapathi Subramanian, Nicholas Gordon, and enforce proper patent protection for the Invention in all countries. These provisions are binding upon ASSIGNOR's heirs, legal representatives, administrators, and assigns. **DECLARATION** As a below named inventor, I hereby declare that: This declaration is directed to: the attached application; or United States Patent Application number 15/717,614 filed on September 27, 2017; or PCT International Application number \_\_\_\_\_ 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. DocuSigned by: /Tate Undrew Certain/ **Tate Andrew Certain** May 13, 2020

Page 4 of 11

Title of Invention: EFFICIENT DATABASE SNAPSHOT GENERATION  Inventors: Tate Andrew Certain, James Christopher Sorenson III, Sharatkumar Nagesh Kuppahally, Akshat Vig, Go Hori, Chase Kernan, Naveen Ganapathi Subramanian, Nicholas Gordon,  DECLARATION  As a below named inventor, I hereby declare that:  This declaration is directed to:	U.S. Patent Appln. No. <u>15/717,614</u>		Attorney Docket No. <u>6924-58500</u>
Inventors: Tate Andrew Certain, James Christopher Sorenson III, Sharatkumar Nagesh Kuppahally, Akshat Vig, Go Hori, Chase Kernan, Naveen Ganapathi Subramanian, Nicholas Gordon,  DECLARATION  As a below named inventor, I hereby declare that:  This declaration is directed to:    the attached application; or   United States Patent Application number 15/717,614 filled on September 27, 2017;   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 is me to be material to the patentability as defined in 37 CFR 1.56.  It 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.    Declaration   James Christopher Sorenson III   Jam	Filing Date <u>September 27, 2017</u>		Client Docket No. <u>P41996-US</u>
Kuppahally, Akshat Vig, Go Hori, Chase Kernan, Naveen Ganapathi Subramanian, Nicholas Gordon,  DECLARATION  As a below named inventor, I hereby declare that:  This declaration is directed to:    the attached application; or   United States Patent Application number 15/717,614 filed on September 27, 2017;   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 is 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.  Decensioned by:      James Christopher Sorenson III	Title of Invention: <u>EFFICIENT DATABASE SI</u>	VAPSHOT GENERATION	Ī
As a below named inventor, I hereby declare that:  This declaration is directed to:  the attached application; or  United States Patent Application number 15/717,614 filed on September 27, 2017;  PCT International Application number	Kuppahally, Akshat Vig, Go Hori, Chase K		
the attached application; or United States Patent Application number 15/717,614 filed on September 27, 2017; □ PCT International Application number		lare that:	
United States Patent Application number 15/717,614 filed on September 27, 2017;  PCT International Application number	This declaration is directed to:		
PCT International Application number	the attached application; or		
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 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.  Docusigned by:    James Christopher Sorenson III  May 11, 2020	United States Patent Applicat	ion number <u>15/717,61</u>	4 filed on September 27, 2017; or
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 time 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.  Docusigned by:    James Christopher Sorenson III  May 11, 2020	PCT International Application	number	filed on
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acknowledge the duty to disclose to the US Patent & Trademark Office all information known to be material to the patentability as defined in 37 CFR 1.56.  If 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.  Docusigned by:  James C. Sorusou III/  Discorda Possouries.  Dames Christopher Sorenson III	application.		
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.  Docusigned by:  //amcs C. Sovenson III  James Christopher Sorenson III  May 11, 2020	I have reviewed and understand the cont	ents of the above-iden	ntified application, and
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.  ——Docusigned by:  / James ( Soreuson III/  ——STREAM SOZZIANE  Dames Christopher Sorenson III	acknowledge the duty to disclose to the l	JS Patent & Trademark	k Office all information known to
under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.  ———————————————————————————————————	me to be material to the patentability as	defined in 37 CFR 1.56	j.
James C. Sorenson III/  James Christopher Sorenson III  May 11, 2020			•
May 11, 2020	/James C. Sovenson III/		
	James Christopher Sorenson III		
Date	May 11, 2020		
	Date		

U.S. Patent Appln. No. <u>15/717,614</u>	Attorney Docket No. <u>6924-58500</u>
Filing Date <u>September 27, 2017</u>	Client Docket No. <u>P41996-US</u>
Title of Invention: <u>EFFICIENT DATABASE SN</u>	APSHOT GENERATION
	ristopher Sorenson III, Sharatkumar Nagesh ernan, Naveen Ganapathi Subramanian, Nicholas
DECLARATION	
As a below named inventor, I hereby declar	are that:
This declaration is directed to:	
the attached application; or	
United States Patent Application	on number <u>15/717,614</u> filed on <u>September 27, 2017</u> ; or
PCT International Application in	number filed on
The above-identified application was mad	e or authorized to be made by me.
I believe that I am the original inventor or application.	an original joint inventor of a claimed Invention in the
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I hereby acknowledge that any willful false under 18 USC 1001 by fine or imprisonme	e statement made in this declaration is punishable nt of not more than five (5) years, or both.
Docusigned by:  /Sharatkumar Nagesh Euppahally/ Sharatkumar Nagesh Kuppahally	
May 11, 2020	
Date	

0.5. Patent Appin. No. <u>15/717,614</u>	Attorney Docket No. <u>6924-58500</u>
Filing Date September 27, 2017	Client Docket No. <u>P41996-US</u>
Title of Invention: <u>EFFICIENT DATABASE SNAPSHO</u>	OT GENERATION
Inventors: Tate Andrew Certain, James Christop Kuppahally, Akshat Vig, Go Hori, Chase Kernan, Gordon,	
DECLARATION	
As a below named inventor, I hereby declare tha	t:
This declaration is directed to:	
the attached application; or	
United States Patent Application nun	nber <u>15/717,614</u> filed on <u>September 27, 2017</u> ; or
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I hereby acknowledge that any willful false state	ment made in this declaration is punishable
under 18 USC 1001 by fine or imprisonment of n	ot more than five (5) years, or both.
DocuSigned by:	
/Akshat Vig/	
Akshat Vig	
May 11, 2020	
Date	

U.S. Patent Appln. No. <u>15/717,614</u>	Attorney Docket No. <u>6924-58500</u>
Filing Date September 27, 2017	Client Docket No. <u>P41996-US</u>
Title of Invention: <u>EFFICIENT DATABASE SI</u>	NAPSHOT GENERATION
	hristopher Sorenson III, Sharatkumar Nagesh Kernan, Naveen Ganapathi Subramanian, Nicholas
DECLARATION	
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DocuSigned by:	
160 Honi/	
Go Hori	
May 11, 2020	
Date	

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U.S. Patent Appln. No. <u>15/717,614</u>	Attorney Docket No. <u>6924-58500</u>
Filing Date September 27, 2017	Client Docket No. <u>P41996-US</u>
Title of Invention: <u>EFFICIENT DATABASE SI</u>	NAPSHOT GENERATION
	hristopher Sorenson III, Sharatkumar Nagesh Kernan, Naveen Ganapathi Subramanian, Nicholas
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I hereby acknowledge that any willful fals	se statement made in this declaration is punishable
	ent of not more than five (5) years, or both.
Occusigned by:  // Chase terman/  7/07884E31F04E3	
Chase Kernan	
May 11, 2020	
Date	

Page 9 of 11

U.S. Patent Appln. No. 15/717,614 Attorney Docket No. 6924-58500 Filing Date September 27, 2017 Client Docket No. P41996-US Title of Invention: EFFICIENT DATABASE SNAPSHOT GENERATION Inventors: Tate Andrew Certain, James Christopher Sorenson III, Sharatkumar Nagesh Kuppahally, Akshat Vig, Go Hori, Chase Kernan, Naveen Ganapathi Subramanian, Nicholas Gordon, **DECLARATION** As a below named inventor, I hereby declare that: This declaration is directed to: the attached application; or United States Patent Application number 15/717,614 filed on September 27, 2017; 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. Marcen Ganapathi Subramanian/ Naveen Ganapathi Subramanian May 11, 2020 Date

0.5. Patent Appin. No. <u>15/717,614</u>	Attorney Docket No. <u>6924-58500</u>
Filing Date <u>September 27, 2017</u>	Client Docket No. <u>P41996-US</u>
Title of Invention: <u>EFFICIENT DATABASE S</u>	NAPSHOT GENERATION
	Christopher Sorenson III, Sharatkumar Nagesh Kernan, Naveen Ganapathi Subramanian, Nicholas
DECLARATION	
As a below named inventor, I hereby dec	clare that:
This declaration is directed to:	
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under 18 USC 1001 by fine or imprisonm	ent of not more than five (5) years, or both.
Docusigned by:  /Mcholas Gordon/	
Nicholas Gordon	
May 13, 2020	
Date	

Page 11 of 11