PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7224792

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
IPPOKRATIS PANDIS	08/28/2020
PANAGIOTIS PARCHAS	08/31/2020
MICHAIL PETROPOULOS	01/30/2022
FABIAN OLIVER NAGEL	08/28/2020

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:	16140420

CORRESPONDENCE DATA

Fax Number: (512)853-8801

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.

512-853-8800 Phone:

Email: mmoffitt@intprop.com ROBERT C. KOWERT **Correspondent Name:**

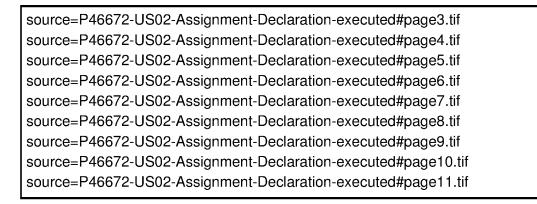
1120 S. CAPITAL OF TEXAS HWY Address Line 1:

Address Line 2: **BUILDING 2, SUITE 300** Address Line 4: **AUSTIN, TEXAS 78746**

ATTORNEY DOCKET NUMBER:	6924-76501
NAME OF SUBMITTER:	ROBERT C. KOWERT
SIGNATURE:	/Robert C. Kowert/
DATE SIGNED:	03/15/2022

Total Attachments: 11

source=P46672-US02-Assignment-Declaration-executed#page1.tif source=P46672-US02-Assignment-Declaration-executed#page2.tif



U.S. Patent Appln. No. <u>16/140,420</u>

Attorney Docket No. 6924-76501

Filing Date September 24, 2018

Client Docket No. P46672-US02

PARTIES TO THE ASSIGNMENT

Assignor(s):

Ippokratis Pandis

410 Terry Avenue North Seattle, WA 98109-5210

Panagiotis Parchas

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Michail Petropoulos

410 Terry Avenue North Seattle, WA 98109-5210

Assignee:

Amazon Technologies, Inc. PO Box 81226 Seattle, WA 98108-1226 **Fabian Oliver Nagel** 410 Terry Avenue North

Seattle, WA 98109-5210

Yannis Papakonstantinou 410 Terry Avenue North Seattle, WA 98109-5210

<u>AGREEMENT</u>

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled "COMBINING NESTED DATA OPERATIONS FOR DISTRIBUTED QUERY PROCESSING" (Invention) for which a non-provisional application for United States Letters Patent (Application):

\boxtimes	was filed on September 24, 2018 and accorded U.S. Application No. 16/140,420; 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 <u>Firm Name</u>, associated with Customer No. <u>Customer #</u>, to insert in the header above and here in parentheses (U.S. Patent Application No. <u>16/140,420</u>, filed <u>September 24, 2018</u>) this application's U.S. application number and filing date, when known.

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U.S. Patent Appln. No. 16/140,420

Attorney Docket No. 6924-76501

Filing Date September 24, 2018

Client Docket No. P46672-US02

Title of Invention: COMBINING NESTED DATA OPERATIONS FOR DISTRIBUTED QUERY PROCESSING

Inventors: Ippokratis Pandis, Panagiotis Parchas, Michail Petropoulos, Fabian Oliver Nagel,

Yannis Papakonstantinou .

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, 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 regarding said letters patent, or

for the purpose of protecting title to said Invention or letters patent therefor.

Page 2 of 8

U.S. Patent Appln. No. 16/140,420

Attorney Docket No. 6924-76501

Filing Date September 24, 2018

Client Docket No. P46672-US02

Title of Invention: COMBINING NESTED DATA OPERATIONS FOR DISTRIBUTED QUERY PROCESSING

Inventors: Ippokratis Pandis, Panagiotis Parchas, Michail Petropoulos, Fabian Oliver Nagel,

Yannis Papakonstantinou .

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.

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PATENT

REEL: 059267 FRAME: 0980

U.S. Patent Appln. No. <u>16/140,420</u>	Attorney Docket No. <u>6924-76501</u>
Filing Date <u>September 24, 2018</u>	Client Docket No. P46672-US02
Title of Invention: <u>COMBINING NESTED DAT</u>	A OPERATIONS FOR DISTRIBUTED QUERY PROCESSING
Inventors: Ippokratis Pandis, Panagiotis P Yannis Papakonstantinou,	archas, Michail Petropoulos, Fabian Oliver Nagel,
<u>DECLARATION</u>	
As a below named inventor, I hereby decla	re that:
This declaration is directed to:	
the attached application; or	
United States Patent Applicatio	n number <u>16/140,420</u> filed on <u>September 24, 2018</u> ; or
PCT International Application n	umber filed on
The above-identified application was made	e or authorized to be made by me.
_	an original joint inventor of a claimed Invention in the
application.	
I have reviewed and understand the conte	nts 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 de	efined 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 imprisonmer	et of not more than five (5) years, or both.
DocuSigned by:	
/Ippolratis Pandis/	
Ippokratis Pandis	
August 28, 2020	
Date	

U.S. Patent Appln. No. <u>16/140,420</u>	Attorney Docket No. <u>6924-76501</u>		
Filing Date <u>September 24, 2018</u>	Client Docket No. <u>P46672-US02</u>		
Title of Invention: COMBINING NESTED DA	TA OPERATIONS FOR DISTRIBUTED QUERY PROCESSING		
Inventors: Ippokratis Pandis, Panagiotis I Yannis Papakonstantinou,	Parchas, Michail Petropoulos, Fabian Oliver Nagel,		
<u>DECLARATION</u>			
As a below named inventor, I hereby decl	are that:		
This declaration is directed to:			
the attached application; or			
United States Patent Applicati	on number <u>16/140,420</u> filed on <u>September 24, 2018</u> ; or		
PCT International Application	number filed on		
The above-identified application was mad	e or authorized to be made by me.		
	an original joint inventor of a claimed Invention in the		
application.			
I have reviewed and understand the conte	ents of the above-identified application, and		
	S Patent & Trademark Office all information known to Text		
me to be material to the patentability as o	defined in 37 CFR 1.56.		
I hereby acknowledge that any willful false	e statement made in this declaration is punishable		
under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.			
Panagiotis Parchas			
09/21/2020			
08/31/2020 Date			

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63) Attorney Docket No. 6924-76501 U.S. Patent Appln. No. <u>16/140,420</u> Client Docket No. P46672-US02 Filing Date September 24, 2018 Title of Invention: COMBINING NESTED DATA OPERATIONS FOR DISTRIBUTED QUERY PROCESSING Inventors: Ippokratis Pandis , Panagiotis Parchas , Michail Petropoulos, Fabian Oliver Nagel , Yannis Papakonstantinou . **DECLARATION** As a below named inventor, I hereby declare that: This declaration is directed to: the attached application; or igwedge United States Patent Application number 16/140,420 filed on September 24, 2018; 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.

Michail Petropoulos

U.S. Patent Appln. No. <u>16/140,420</u>	Attorney Docket No. <u>6924-76501</u>
Filing Date <u>September 24, 2018</u>	Client Docket No. <u>P46672-US02</u>
Title of Invention: <u>COMBINING NESTED D</u>	ATA OPERATIONS FOR DISTRIBUTED QUERY PROCESSING
Inventors: Ippokratis Pandis , Panagiotis Yannis Papakonstantinou ,	Parchas, Michail Petropoulos, Fabian Oliver Nagel,
DECLARATION	
As a below named inventor, I hereby dec	clare that:
This declaration is directed to:	
the attached application; or	
United States Patent Applica	tion number <u>16/140,420</u> filed on <u>September 24, 2018</u> ; or
PCT International Application	numberfiled on
The above-identified application was ma	de or authorized to be made by me.
I believe that I am the original inventor o	r an original joint inventor of a claimed Invention in the
I have reviewed and understand the con	tents 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 fal	se statement made in this declaration is punishable
under 18 USC 1001 by fine or imprisonm	ent of not more than five (5) years, or both.
Docusigned by: /Fabian Oliver Nagel/9F903B62071348E	
Fabian Oliver Nagel	
August 28, 2020	
Date	

U.S. Patent Appln. No. <u>16/140,420</u>	Attorney Docket No. <u>6924-76501</u>			
Filing Date <u>September 24, 2018</u>	Client Docket No. P46672-US02			
Title of Invention: COMBINING NESTED D.	ATA OPERATIONS FOR DISTRIBUTED QUERY PROCESSING			
Inventors: Ippokratis Pandis, Panagiotis Yannis Papakonstantinou,	Parchas , Michail Petropoulos, Fabian Oliver Nagel ,			
<u>DECLARATION</u>				
As a below named inventor, I hereby dec	lare that:			
This declaration is directed to:				
the attached application; or				
United States Patent Applicat	ion number <u>16/140,420</u> filed on <u>September 24, 2018</u> ; or			
PCT International Application	number filed on			
The above-identified application was ma	de or authorized to be made by me.			
I believe that I am the original inventor o application.	r an original joint inventor of a claimed Invention in the			
I have reviewed and understand the conf	ents of the above-identified application, and			
acknowledge the duty to disclose to the	JS Patent & Trademark Office all information known to			
me to be material to the patentability as defined in 37 CFR 1.56.				
<u> </u>	se statement made in this declaration is punishable ent of not more than five (5) years, or both.			
and to the total by the or imprisoning				
Yannis Papakonstantinou				
Date				

Page 8 of 8

Doc code: Oath

Document Description: Oath or declaration filed

PTO/AIA/02 (07-13)
Approved for use through 01/31/2014. OMB 0651-0032
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SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)

Title of Invention PROCESSING	A OPERATIONS FOR I	DISTRIBUTED QU	JERY
This statement is directed to:			
The attached application,			
OR			
United States application or PCT international	application number	40,420 filed on	September 24, 2018
LEGAL NAME of inventor to whom this sub	stitute statement applies	:	
($\it E.g.$, Given Name (first and middle (if any)) and Fa	amily Name or Surname)		
Yannis Papakonstantinou			
Residence (except for a deceased or legally incapa	citated inventor):		
_{City} La Jolla	CA Co	untry	
Mailing Address (except for a deceased or legally incapared and the second state of the second secon	citated inventor):	-	
City San Diego	State CA	Zip 92037	Country US
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.			
The above-identified application was made or auth	orized to be made by me.		
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
Relationship to the inventor to whom this substitu	te statement applies:		
Legal Representative (for deceased or legally incapacitated inventor only),			
Assignee,	g,		
Person to whom the inventor is under an	obligation to assign,		
Person who otherwise shows a sufficient		ter (petition under 37 C	FR 1.46 is required), or
Joint Inventor.		,	1

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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SUBSTITUTE STATEMENT

Circumstances permitting execution of this su	bstitute statement:		
Inventor is deceased,			
Inventor is under legal incapacity,			
Inventor cannot be found or reached	after diligent effort, or		
Inventor has refused to execute the	oath or declaration under	37 CFR 1.63.	
If there are joint inventors, please check the a	appropriate box below:		
An application data sheet under 37 of or is currently submitted.	CFR 1.76 (PTO/AIA/14 or	equivalent) naming the enti	re inventive entity has been
OR			
An application data sheet under 37 (Statement Supplemental Sheet (PTC information is attached. See 37 CFR	D/AIA/11 or equivalent) n		
	WARNING:		
Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.			
PERSON EXECUTING THIS SUBSTITUTE ST	ATEMENT:		
Name: Scott Hayden			
Signature: 5 H		-	
APPLICAN NAMES AND STITLE OF PERSON			_
If the applicant is a juristic entity, list the applica			
Applicant Name: Amazon Technologies, Inc.			
Title of Person Executing This Substitute Statement: Vice Preside	ent & AGC		
The signer, whose title is supplied above, is authorized to act on behalf of the applicant.			
Residence of the signer (unless provided in	an application data she	eet, PTO/AIA/14 or equivale	ent):
_{City} Woodinville	State WA	Country US	
Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)			
410 Terry Avenue North			
_{City} Seattle	State WA	98109-521	O Country US
Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.			

[Page 2 of 2]

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- The information on this form will be treated confidentially to the extent allowed under the
 Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from
 this system of records may be disclosed to the Department of Justice to determine whether
 disclosure of these records is required by the Freedom of Information Act.
- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

PATENT REEL: 059267 FRAME: 0988

RECORDED: 03/15/2022