EPAS ID: PAT7152153

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
	Corrective Assignment to correct the THE COMMA AFTER THE PERIOD IN "INC." IN THE ASSIGNEE'S NAME. THE ASSIGNEE'S NAME SHOULD APPEAR: FACEBOOK, INC. previously recorded on Reel 050321 Frame 0027. Assignor(s) hereby confirms the ASSIGNMENT.

CONVEYING PARTY DATA

Name	Execution Date
SACHIN KADLOOR	05/24/2017
LAKSHMI GANESH	05/25/2017
JIACHENG FENG	05/25/2017
SAJAL JAIN	05/25/2017
QIANG WU	09/09/2019

RECEIVING PARTY DATA

Name:	FACEBOOK, INC.
Street Address:	1601 WILLOW ROAD
City:	MENLO PARK
State/Country:	CALIFORNIA
Postal Code:	94025

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15482415

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone:	8019803399
Email:	FBparalegal@maxval.com
Correspondent Name:	FISHERBROYLES, LLP - FACEBOOK, INC.
Address Line 1:	222 SOUTH MAIN STREET, 5TH FLOOR
Address Line 4:	SALT LAKE CITY, UTAH 84101

ATTORNEY DOCKET NUMBER:	007726.0484U1
NAME OF SUBMITTER:	JONATHAN LEE
SIGNATURE:	/Jonathan Lee/
DATE SIGNED:	02/01/2022

Total Attachments: 6	
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505662453 09/09/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5709259

SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYA	NCE:	ASSIGNMENT		
CONVEYING PARTY D	ΑΤΑ			
		Name	Execution Date	
SACHIN KADLOOR			05/24/2017	
LAKSHMI GANESH			05/25/2017	
JIACHENG FENG			05/25/2017	
SAJAL JAIN			05/25/2017	
QIANG WU			09/09/2019	
RECEIVING PARTY DA				
Name:	FACE	BOOK, INC., FACEBOOK, INC.		
Street Address:		1601 WILLOW ROAD		
City:	MENL	O PARK		
State/Country:	CALIF	ORNIA		
Postal Code:	94025			
PROPERTY NUMBERS	Total: 1			
Property Type	5 TOLAI.	Number		
Application Number:	,	15482415		
CORRESPONDENCE	DATA			
Fax Number:		(866)259-6138		
		o the e-mail address first; if that is unsucce		
Phone:	provide	d; if that is unsuccessful, it will be sent via 8018673327	US Mall.	
		fb-docketing@FisherBroyles.com		
Email:				
Email: Correspondent Name:		FISHERBROYLES, LLP - FACEBOOK, INC.		
Email: Correspondent Name: Address Line 1:		FISHERBROYLES, LLP - FACEBOOK, INC. 222 SOUTH MAIN STREET. 5TH FLOOR		
Correspondent Name:		FISHERBROYLES, LLP - FACEBOOK, INC. 222 SOUTH MAIN STREET, 5TH FLOOR SALT LAKE CITY, UTAH 84101		
Correspondent Name: Address Line 1: Address Line 4:		222 SOUTH MAIN STREET, 5TH FLOOR SALT LAKE CITY, UTAH 84101		
Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET N	UMBER:	222 SOUTH MAIN STREET, 5TH FLOOR SALT LAKE CITY, UTAH 84101		
Correspondent Name: Address Line 1:	UMBER:	222 SOUTH MAIN STREET, 5TH FLOOR SALT LAKE CITY, UTAH 84101 007726.0484U1		
Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER: SIGNATURE:	UMBER:	222 SOUTH MAIN STREET, 5TH FLOOR SALT LAKE CITY, UTAH 84101 007726.0484U1 BRYAN HANKS		
Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER:	UMBER:	222 SOUTH MAIN STREET, 5TH FLOOR SALT LAKE CITY, UTAH 84101 007726.0484U1 BRYAN HANKS /Bryan Hanks/	aration (37 CFR 1.63).	

COMBINED ASSIGNMENT/DECLARATION (37 CFR 1.63)

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to Facebook, Inc., a Delaware corporation, having a place of business at 1601 Willow Road, Menlo Park, California 94025 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the following provisional application filed under 35 U.S.C. § 111(b), non-provisional application filed under 35 U.S.C. § 111(a), international application filed according to the Patent Cooperation Treaty (PCT), or U.S. national phase application filed under 35 U.S.C. § 371 ("APPLICATION"):

Application No. 15/482,415 entitled "AUTOMATIC LOAD BALANCING FOR RESOURCE ALLOCATIONS" filed on April 7, 2017.

2. The entire worldwide right, title, and interest in and to: (a) the APPLICATION; (b) all applications claiming priority from the APPLICATION; (c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto which have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) which may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATION and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all caths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document

Astorney Docket Ma.: 666406.8471.US01 68406-8471.US01/133142836.1 3

Tsue	AUTOMATIC LOAD BALANCING FOR RESOURCE ALLOCATIONS
Date Filed	April 7, 2017
Applautica No.	15:482,415

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

By signing below, INVENTOR further attests to the following:

- The APPLICATION was made or authorized to be made by INVENTOR.
- INVENTOR believes that INVENTOR is the original inventor or an original joint inventor of a claimed invention in the APPLICATION.
- INVENTOR acknowledges the duty to disclose to the United States Patent and Trademark Office all information known to INVENTOR to be material to patentability as defined in 37 CFR § 1.56, which for a continuation-in-part includes information known to INVENTOR to be material to patentability as defined in 37 CFR § 1.56 that became available between the filing date of the prior patent application and the National or PCT filing date of the continuation-in-part application.

INVENTOR hereby acknowledges that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Name and Signature	Date of Signature
Sachin Kantoor	May 24, 2017
Sachin Kadloor	
Name and Signature	Date of Signature
Con ford	May 25, 2017
Lakshmi Ganesh	
Name and Signature	Date of Signature
jlackieng fong	₩ay 25, 2017
Jiacheng Feng	
Name and Signature	Date of Signature
See al and a second	May 25, 2017
Sajal Jain	<u></u>

Attorney Docket No.: 080406.8471.US01. 66466-8471.US01/157142316.1 2

Tids: AUTOMATIC LOAD BALANCING FOR RESOURCE ALLOCATIONS Date Filed: April 7, 2017 Application No.: 15/481,415

Name and Signature

Date of Signature

Qiang Wu

Attomey Docket No.: 060406.8471.33501 60406-8471.0881/133341056.1 ŝ

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SUE			OR DECLARATION FOR UTILITY C. 115(d) AND 37 CFR 1.64)	
Title of Invention	AUTOMATIC LOAD BALAN	CING FOR RESOU	RCE ALLOCATIONS	
This stateme	ent is directed to:			
The att	ached application,			
OR		4 E		(
United \$	States application or PCT international	application number	4824157 April 201	
LEGAL NA	ME of inventor to whom this sul	ostitute statement appl	ies:	
	Name (first and middle (if any)) and Fa	amily Name or Surname)		
Qiang \				
Residence (except for a deceased or legally incapa	citated inventor):		
City HOL	iston	State TX	Country	
Mailing Addre	ess (except for a deceased or legally incapa			
1321 UP	LAND DR STE 3514			
_{city} Hou	iston	State TX	77043-4718 Country US	
in the ap The above-i	plication. Identified application was made or auth	orized to be made by me.	r or an original joint inventor of a claimed inventi is punishable under 18 U.S.C. 1001 by fine or	ion
imprison	ment of not more than five (5) years, o	r both.		
Relationsh	ip to the inventor to whom this substitu	te statement applies:		
Le	egal Representative (for deceased or le	egally incapacitated invento	r only),	
A:	ssignee,			
	erson to whom the inventor is under ar			
[]	erson who otherwise shows a sufficien bint Inventor.	t proprietary interest in the i	matter (petition under 37 CFR 1.46 is required),	, or
	******	[Page 1 of 2]		
by the USPTO f complete, includ comments on th	to process) an application. Confidentiality is gover ding gathering, preparing, and submitting the com ne amount of time you require to complete this fon	ned by 35 U.S.C. 122 and 37 CFR pleted application form to the USP n and/or suggestions for reducing t	ired to obtain or retain a benefit by the public which is to file (1.11 and 1.14. This collection is estimated to take 1 minute to TO. Time will vary depending upon the individual case. Any this burden, should be sent to the Chief Information Officer, L 3-1450. DO NOT SEND FEES OR COMPLETED FORMS TO	to U.S.

THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-919\$

SUBSTITUTE STATEMENT	
Circumstances permitting execution of this substitute 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 appropriate box below:	
An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.	
OR	
An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).	
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 STATEMENT:	
_{Name:} Jonathan Lee	6 September 2019 Date (Optional):
_{Signature:} /Jonathan Lee/	
APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT: If the applicant is a juristic entity, list the applicant name and the title of the signer:	
Facebook, Inc.	
Applicant Name: Title of Person Executing Attornove For Applicant	
This Substitute Statement: Altorney For Applicant	
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 sheet, PTO/AIA/14 or equivalent):	
city Menlo Park State CA Country US	
Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent) 1601 Willow Road	
_{city} Menlo Park _{state} CA _{zip} 94025	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.	

PATENT REEL: 058920 FRAME: 0831