508430705 03/11/2024

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 Assignment ID: PATI84351

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Vivek Natarajan	09/25/2018
Baiyang Liu	09/19/2018
Shubham Gupta	09/18/2018
Krishna Mittal	09/25/2018
Scott Martin	09/19/2018

RECEIVING PARTY DATA

Company Name:	Facebook, Inc.
Street Address:	1 META WAY
City:	MENLO PARK
State/Country:	CALIFORNIA
Postal Code:	94025

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17362676

CORRESPONDENCE DATA

Fax Number: 2027568067

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: 2027568000

Email: ipdocketmwe@mwe.com,cpannell@mwe.com

Correspondent Name: AHSAN A. SHAIKH

Address Line 1: 500 North Capitol Street, NW

Address Line 4: Washington, DISTRICT OF COLUMBIA 20001

ATTORNEY DOCKET NUMBER:	082513-1424	
NAME OF SUBMITTER:	Ciara Pannell	
SIGNATURE:	Ciara Pannell	
DATE SIGNED:	03/11/2024	

Total Attachments: 3

source=082513-1424_Assignment#page1.tif

PATENT REEL: 066717 FRAME: 0303

508430705

source=082513-1424_Assignment#page2.tif source=082513-1424_Assignment#page3.tif

> PATENT REEL: 066717 FRAME: 0304

COMBINED ASSIGNMENT AND DECLARATION (37 C.F.R. § 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 patent application filed under 35 U.S.C. § 111(b), non-provisional patent application filed under 35 U.S.C. § 111(a), international patent application filed according to the Patent Cooperation Treaty (PCT), or U.S. national-phase patent application filed under 35 U.S.C. § 371 ("APPLICATION"):

Application No. 16/129,638, entitled "Execution Engine for Compositional Entity Resolution for Assistant Systems" filed on 12 September 2018.

2. The entire worldwide right, title, and interest in and to: (a) the APPLICATION; (b) all patent applications claiming priority from the APPLICATION; (c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other patent 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 patent 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 patent 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 oaths, 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.

PATENT REEL: 066717 FRAME: 0305 Title: Execution Engine for Compositional Entity Resolution for Assistant Systems

Date Filed: 12 September 2018

Application No.: 16/129,638

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 C.F.R. § 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. § 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, imprisonment of not more than five years, or both.

Name and Signature	Date of Signature
<u>Vivek Natarajan</u>	Sep 25, 2018
Vivek Natarajan	
Name and Signature	Date of Signature
Bolysons to Clop 35, 2038)	Sep 19, 2018
Baiyang Liu	

Title: Execution Engine for Compositional Entity Resolution for Assistant Systems

Date Filed: 12 September 2018

Application No.: 16/129,638

Scott Martin

Name and Signature

Shubham
Shubham Gupta

Name and Signature

Date of Signature

Sep 18, 2018

Date of Signature

Sep 25, 2018

Name and Signature

Date of Signature

Sep 25, 2018

Name and Signature

Sep 25, 2018

Name and Signature

Sep 19, 2018

Attorney Docket No.: 079894.5988 Page 3 of 3

RECORDED: 03/11/2024

Active 38646690.1
PATENT

PATENT REEL: 066717 FRAME: 0307