PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4474029

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HUSSEIN MOHAMED HASSAN MEHANNA	08/20/2015
ANDREY MALEVICH	08/20/2015
SAI NISHANTH PAREPALLY	04/23/2015
DAVID PAUL CAPEL	04/22/2015
ALISSON GUSATTI AZZOLINI	08/20/2015

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:	14671657

CORRESPONDENCE DATA

Fax Number: (650)938-5200

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: 650-335-7161

Email: mnascimento@fenwick.com

DAVID SHEN Correspondent Name:

FENWICK & WEST LLP Address Line 1: Address Line 2: **801 CALIFORNIA STREET**

Address Line 4: MOUNTAIN VIEW, CALIFORNIA 94041

NAME OF SUBMITTER: DAV	DAVID SHEN, REG. NO. 63116	
SIGNATURE: /Dav	vid Shen/	
DATE SIGNED: 06/2	22/2017	

Total Attachments: 5

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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. 14/671,657, entitled "Evaluating Modifications to Features
 Used by Machine Learned Models Applied by an Online System" filed on
 March 27, 2015.
 - 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 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.

Attorney Docket No.: 26295-27574/US

1

Title:

Evaluating Modifications to Features Used by Machine Learned Models Applied by

an Online System

Date Filed:

March 27, 2015

Application No.:

14/671,657

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 has reviewed and understands the contents of the APPLICATION, including the claims.

INVENTOR hereby acknowledges that any willful false statement made in this document 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	
Stuart Michael Bowers		
Name and Signature	Date of Signature	
	8/20/15	
Hussein Mohamed Hassan Mehanna		
Name and Signature	Date of Signature	
Hl-	8/20/15	
Andrey Malevich		

2

Attorney Docket No.: 26295-27574/US

Title:	Evaluating Modifications to Feature an Online System	s Used by Machine Learned Models Applied by
Date Filed: Application No.:	March 27, 2015 14/671,657	
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Name and Signa	ture	Date of Signature
To Go: Not	w.k	04/23/2015
Sai Nishanth Pa	repally	
Name and Signa	ture	Date of Signature
David Paul Cap	el	
Name and Signa	ture	Date of Signature

Alisson Gusatti Azzolini

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Evaluating Modifications to Features Used by Machine Learned Models Applied by

Date Filed:

an Online System March 27, 2015

Application No.:

14/671,657

Name and Signature	Date of Signature
Sai Nishanth Parepally	*
Name and Signature	Date of Signature
Hard God	04/22/2015
David Paul Capel	
	*
Name and Signature	Date of Signature

Title: Date Filed: Application No.:	Evaluating Modifications to Features Used by Machine Learned Models Applied by an Online System March 27, 2015 14/671,657		
Name and Signa	ture	Date of Signature	
Sai Nishanth Pa	repally		
Name and Signat	ure	Date of Signature	
David Paul Cap	el		

Date of Signature

Attorney Docket No.: 26295-27574/US

RECORDED: 06/22/2017

Name and Signature

Alisson Gusatti Azzolini