

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7609008

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
PINTEREST, INC.	10/25/2022

RECEIVING PARTY DATA

Name:	JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT
Street Address:	10 SOUTH DEARBORN, FLOOR L2
City:	CHICAGO
State/Country:	ILLINOIS
Postal Code:	60603

PROPERTY NUMBERS Total: 60

Property Type	Number
Application Number:	16166974
Application Number:	17409609
Application Number:	17860765
Application Number:	17698961
Patent Number:	11443357
Application Number:	17930631
Application Number:	17366687
Application Number:	17572414
Application Number:	17391721
Application Number:	17347005
Application Number:	17579328
Application Number:	17514882
Application Number:	17827359
Application Number:	17191449
Patent Number:	11227012
Patent Number:	11227013
Application Number:	17577187
Patent Number:	11227014
Application Number:	16273995
Application Number:	17356966

PATENT

Property Type	Number
Patent Number:	11468471
Application Number:	16231441
Patent Number:	11288453
Application Number:	17403667
Application Number:	17579386
Patent Number:	11403360
Application Number:	17876827
Application Number:	17315197
Application Number:	16243528
Patent Number:	10891331
Application Number:	17145823
Application Number:	16732119
Application Number:	17564004
Application Number:	17848040
Application Number:	17882882
Application Number:	17665148
Application Number:	17748719
Application Number:	17141911
Application Number:	17325936
Application Number:	17400037
Application Number:	17394352
Application Number:	17673613
Application Number:	63291276
Application Number:	17666997
Application Number:	63294043
Application Number:	17822772
Application Number:	17710451
Application Number:	63308412
Application Number:	17729866
Application Number:	17844640
Application Number:	63308921
Application Number:	17866367
Application Number:	16547458
Application Number:	16901780
Application Number:	17367272
Patent Number:	11055476
Patent Number:	10963522
Patent Number:	11036814

Property Type	Number
Patent Number:	11341144
Patent Number:	10845892

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: 8448182387
Email: ipteam@cogencyglobal.com
Correspondent Name: JENNIFER TINDIE
Address Line 1: 1025 CONNECTICUT AVENUE NW
Address Line 2: SUITE 712
Address Line 4: WASHINGTON, NEW YORK 20036

ATTORNEY DOCKET NUMBER:	1814330
NAME OF SUBMITTER:	CAROLINE HUGHES
SIGNATURE:	/Caroline Hughes/
DATE SIGNED:	10/25/2022

Total Attachments: 9

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PATENT SECURITY AGREEMENT

This PATENT SECURITY AGREEMENT, dated as of October 25, 2022 (this “**Agreement**”), between PINTEREST, INC. (the “**Grantor**”), and JPMORGAN CHASE BANK, N.A., as collateral agent for the Secured Parties (as defined in the Pledge and Security Agreement referred to below) (herein in such capacity, the “**Collateral Agent**”).

RECITALS

- (A) Grantor, the other GUARANTORS party thereto, the LENDERS and ISSUING BANKS from time to time party thereto, and JPMORGAN CHASE BANK, N.A., as administrative agent (in such capacity, the “**Administrative Agent**”) and Collateral Agent, have entered into a Revolving Credit and Guaranty Agreement, dated as of November 15, 2018, as amended and restated as of October 25, 2022 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “**Credit Agreement**”).
- (B) Grantor is party to a Pledge and Security Agreement, dated as of November 15, 2018, in favor of the Collateral Agent (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “**Pledge and Security Agreement**”), pursuant to which Grantor is required to execute and deliver this Agreement.
- (C) In consideration of the mutual conditions and agreements set forth in the Credit Agreement, the Pledge and Security Agreement and this Agreement, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto hereby agree as follows:

SECTION 1 Defined Terms

Unless otherwise defined herein, terms defined in the Pledge and Security Agreement and used herein have the meaning given to them in the Pledge and Security Agreement.

SECTION 2 Grant of Security Interest in Patent Collateral

As security for the prompt and complete payment and performance in full when due (whether at stated maturity, by required prepayment, declaration, acceleration, demand or otherwise, including the payment of amounts that would become due but for the operation of the automatic stay under Section 362(a) of the Bankruptcy Code) of all Secured Obligations, Grantor hereby pledges and grants to the Collateral Agent, for its benefit and for the benefit of the Secured Parties, a continuing security interest in and Lien on all of its right, title and interest in, to and under the Patent Collateral. This Agreement is not to be construed as an assignment of any Patent Collateral.

“**Patent Collateral**” means all of Grantor’s right, title and interest in, to and under all United States issued Patents and United States Patent applications owned by Grantor listed on Schedule I attached hereto.

SECTION 3 Pledge and Security Agreement

The security interest granted pursuant to this Agreement is granted in conjunction with the security interest granted to the Collateral Agent pursuant to the Pledge and Security Agreement, and Grantor hereby acknowledges and affirms that the rights and remedies of the Collateral Agent with respect to the security interest in the Patent Collateral made and granted hereby is more fully set forth in the Pledge and Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein.

SECTION 4 Term

The term of this Agreement shall be coterminous with the term of the Pledge and Security Agreement.

SECTION 5 Governing Law and Consent to Jurisdiction

THIS AGREEMENT SHALL BE CONSTRUED IN ACCORDANCE WITH AND GOVERNED BY THE LAW OF THE STATE OF NEW YORK. THE TERMS AND PROVISIONS OF SECTION 9.13 OF THE PLEDGE AND SECURITY AGREEMENT ARE INCORPORATED BY REFERENCE HEREIN WITH RESPECT HERETO AS IF FULLY SET FORTH HEREIN.

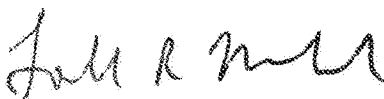
SECTION 6 Counterparts

This Agreement and any amendments, waivers, consents or supplements hereto or in connection herewith may be executed in counterparts (and by different parties hereto on different counterparts), each of which shall be deemed an original, but all of which when taken together shall constitute a single contract. The words “execution”, “signed”, “signature”, “delivery” and words of like import in or relating to this Agreement and/or any document to be signed in connection with this Agreement and the transactions contemplated hereby shall be deemed to include Electronic Signatures, deliveries or the keeping of records in any electronic form (including deliveries by telecopy, emailed .pdf or any other electronic means that reproduces an image of an actual executed signature page), each of which shall be of the same legal effect. “Electronic Signatures” means an electronic sound, symbol or process attached to, or associated with, a contract or other record and adopted by a Person with the intent to sign, authenticate or accept such contract or record. This Agreement will become effective upon the execution and delivery of a counterpart hereof by each of the parties hereto. The Collateral Agent may also require that any Electronic Signatures be confirmed by a manually signed original thereof; provided that the failure to request or deliver the same shall not limit the effectiveness of any Electronic Signature delivered.

[Signature Pages Follow]

IN WITNESS WHEREOF, Grantor has caused this Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

PINTEREST, INC.

By 
Name: Todd R. Morgenfeld
Title: Chief Financial Officer and
Head of Business Operations

ACCEPTED AND AGREED:
JPMORGAN CHASE BANK, N.A.,
as Collateral Agent

By *Vidita J. Shah*
Name: Vidita J. Shah
Title: Vice President

[Signature Page to Pinterest, Inc. Patent Security Agreement]

[[5907052]]

PATENT
REEL: 061767 FRAME: 0859

SCHEDULE I

UNITED STATES ISSUED PATENTS AND PATENT APPLICATIONS

<u>Country</u>	<u>Application Number</u>	<u>Filing Date</u>	<u>Patent Number</u>	<u>Issue Date</u>	<u>Title</u>	<u>Status</u>
US	16/166,974	10/22/18			METHOD, MEDIUM, AND SYSTEM FOR FACILITATING PURCHASE OF OBJECTS	Allowed
US	17/409,609	8/23/21			UNIT GROUP GENERATION AND RELATIONSHIP ESTABLISHMENT	Published
US	17/860,765	7/8/22			OBJECT IDENTIFIERS FOR REAL WORLD OBJECTS	Filed
US	17/698,961	3/18/22			VISUAL SEARCH REFINEMENT	Published
US	16/293,438	3/5/19	11,443,357	9/13/22	MATCHING USER PROVIDED REPRESENTATIONS OF ITEMS WITH SELLERS OF THOSE ITEMS	Issued
US	17/930,631	9/8/22			MATCHING USER PROVIDED REPRESENTATIONS OF ITEMS WITH SELLERS OF THOSE ITEMS	Filed
US	17/366,687	7/2/21			DYNAMIC SEARCH CONTROL INVOCATION AND VISUAL SEARCH	Published
US	17/572,414	1/10/22			GENERATING COLLECTIONS OF SETS BASED ON USER PROVIDED ANNOTATIONS	Published
US	17/391,721	8/2/21			DETERMINING SESSION INTENT	Published
US	17/347,005	6/14/21			OPTIMAL NOTIFICATION	Published

<u>Country</u>	<u>Application Number</u>	<u>Filing Date</u>	<u>Patent Number</u>	<u>Issue Date</u>	<u>Title</u>	<u>Status</u>
US	17/579,328	1/19/22			OBJECT IDENTIFICATION BASED ON LONG-TERM USER BEHAVIOR AND SHORT-TERM INTEREST	Published
US	17/514,882	10/29/21			BINARY REPRESENTATIONS OF OBJECTS	Published
US	17/827,359	5/27/22			PROBABILISTIC DETERMINATION OF COMPATIBLE CONTENT	Published
US	17/191,449	3/3/21			TEXTUAL AND IMAGE BASED SEARCH	Allowed
US	16/273,860	2/12/19	11,227,012	1/18/22	EFFICIENT GENERATION OF EMBEDDING VECTORS OF NODES IN A CORPUS GRAPH	Issued
US	16/273,939	2/12/19	11,227,013	1/18/22	GENERATING NEIGHBORHOOD CONVOLUTIONS WITHIN A LARGE NETWORK	Issued
US	17/577,187	1/17/22			GENERATING NEIGHBORHOOD CONVOLUTIONS WITHIN A LARGE NETWORK	Filed
US	16/273,969	2/12/19	11,227,014	1/18/22	GENERATING NEIGHBORHOOD CONVOLUTIONS ACCORDING TO RELATIVE IMPORTANCE	Issued
US	16/273,995	2/12/19			MACHINE LEARNING MODEL TRAINING	Published
US	17/356,966	6/24/21			AUTO-COMPLETION BASED ON CONTENT SIMILARITIES	Published
US	16/271,033	2/8/19	11,468,471	10/11/22	AUDIENCE	Allowed

<u>Country</u>	<u>Application Number</u>	<u>Filing Date</u>	<u>Patent Number</u>	<u>Issue Date</u>	<u>Title</u>	<u>Status</u>
					EXPANSION ACCORDING TO USER BEHAVIORS	
US	16/231,441	12/22/18			PREDICTIVELY IDENTIFYING ACTIVITY SUBSCRIBERS	Allowed
US	16/361,871	3/22/19	11,288,453	3/29/22	KEY-WORD IDENTIFICATION	Issued
US	17/403,667	8/16/21			LINK LOCALIZATION BY COUNTRY	Published
US	17/579,386	1/19/22			DETERMINING TOPIC COHESION BETWEEN POSTED AND LINKED CONTENT	Published
US	17/208,737	3/22/21	11,403,360	8/2/22	CONTENT PRESENTATION	Issued
US	17/876,827	7/29/22			CONTENT PRESENTATION	Filed
US	17/315,197	5/7/21			IMAGE KEYWORDS	Filed
US	16/243,528	1/9/19			PERFORMANCE-BASED PACING	Filed
US	16/270,167	2/7/19	10,891,331	1/12/21	SKIN TONE FILTER	Issued
US	17/145,823	1/11/21			LIGHTNESS FILTER	Filed
US	16/732,119	12/31/19			QUERY TO INTEREST MAPPING	Filed
US	17/564,004	12/28/21			SKIN TONE DETERMINATION AND FILTERING	Published
US	17/848,040	6/23/22			VISUAL OBJECT GRAPHS	Filed
US	17/882,882	8/8/22			RECOMMENDING CONTENT TO SUBSCRIBERS	Filed
US	17/665,148	2/4/22			PROJECTING QUERIES INTO A CONTENT ITEM EMBEDDING SPACE	Published
US	17/748,719	5/19/22			ESTIMATING	Published

<u>Country</u>	<u>Application Number</u>	<u>Filing Date</u>	<u>Patent Number</u>	<u>Issue Date</u>	<u>Title</u>	<u>Status</u>
					CONVERSIONS	
US	17/141,911	1/5/21			EFFICIENT DESERIALIZATION FROM STANDARDIZED DATA FILES	Filed
US	17/325,936	5/20/21			ACCELERATED TRAINING OF A MACHINE LEARNING MODEL	Filed
US	17/400,037	8/11/21			ATTRIBUTE EXTRACTION	Filed
US	17/394,352	8/4/21			NON-FUNGIBLE TOKEN AUTHENTICATION	Filed
US	US17/673,613	2/16/22			Context-aware Ads Ranking	Filed
US	63/291,276	12/17/21			EXTRACTED IMAGE SEGMENTS COLLAGE	Filed
US	17/666,997	2/8/22			Extracted Image Segments Collage	Filed
US	63/294,043	12/27/21			INTERACTIVE LIVESTREAMING EXPERIENCE	Filed
US	17/822,772	8/27/22			INTERACTIVE LIVESTREAMING EXPERIENCE	Filed
US	17/710,451	3/31/22			HAIR PATTERN DETERMINATION AND FILTERING	Filed
US	63/308,412	2/9/22			PinnerSAGE v2	Filed
US	17/729,866	4/26/22			INTELLIGENT VIDEO PLAYBACK	Filed
US	17/844,640	6/20/22			DETERMINING TOPICS FOR TAXONOMIES	Filed
US	63/308,921	2/10/22			ItemSage: Learning Product Embeddings for Shopping Recommendations at Pinterest	Filed
US	17/866,367	7/15/22			DETERMINING LINKED	Filed

<u>Country</u>	<u>Application Number</u>	<u>Filing Date</u>	<u>Patent Number</u>	<u>Issue Date</u>	<u>Title</u>	<u>Status</u>
					SPAM CONTENT	
US	16/547,458	8/21/19			RESPONDING TO SEARCH REQUEST WITH BOOKMARKED RESULTS	Filed
US	16/901,780	6/15/20			SYSTEMS FOR AND METHODS OF FINDING RELEVANT DOCUMENTS BY ANALYZING TAGS	Filed
US	17/367,272	7/2/21			UNIFORM RESOURCE LOCATOR SUBSCRIPTION SERVICE	Published
US	15/246,974	8/25/16	11,055,476	7/6/21	PROCESSING WEB PAGE DATA ACROSS NETWORK ELEMENTS	Issued
US	15/625,876	6/16/17	10,963,522	3/30/21	SYSTEMS FOR AND METHODS OF FINDING RELEVANT DOCUMENTS BY ANALYZING TAGS	Issued
US	16/194,054	11/16/18	11,036,814	6/15/21	SEARCH ENGINE THAT APPLIES FEEDBACK FROM USERS TO IMPROVE SEARCH RESULTS	Issued
US	16/387,277	4/17/19	11,341,144	5/24/2022	METHODS OF AND SYSTEMS FOR SEARCHING BY INCORPORATING USER-ENTERED INFORMATION	Issued
US	15/798,031	10/30/17	10,845,892	11/24/20	SYSTEM FOR MONITORING A VIDEO	Issued