PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7127664

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| WAL-MART STORES, INC. | 10/01/2019 |

RECEIVING PARTY DATA

| Name: | WALMART APOLLO, LLC |
|-----------------|---------------------|
| Street Address: | 702 SW 8TH STREET |
| City: | BENTONVILLE |
| State/Country: | ARKANSAS |
| Postal Code: | 72716 |

PROPERTY NUMBERS Total: 1

| Property Type | Number | |
|---------------------|----------|--|
| Application Number: | 17578323 | |

CORRESPONDENCE DATA

Fax Number: (602)364-7070

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: 6023647000

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Correspondent Name: BRYAN CAVE LEIGHTON PAISNER LLP Address Line 1: TWO N. CENTRAL AVENUE, SUITE 2100

Address Line 2: JULIE A. ESLICK

Address Line 4: PHOENIX, ARIZONA 85004

| ATTORNEY DOCKET NUMBER: | 3806US03/1761284.1441 |
|-------------------------|-----------------------|
| NAME OF SUBMITTER: | JULIE A. ESLICK |
| SIGNATURE: | /Julie A. Eslick/ |
| DATE SIGNED: | 01/19/2022 |

Total Attachments: 6

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> PATENT REEL: 058689 FRAME: 0550

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PATENT REEL: 058689 FRAME: 0551

PATENT ASSIGNMENT

This PATENT ASSIGNMENT ("Patent Assignment"), effective as of January 31, 2018, is made by and between Wal-Mart Stores, Inc., 702 Southwest 8th Street, Bentonville, Arkansas 72716, USA, ("Assignor"), and Walmart Apollo, LLC, 702 Southwest 8th Street, Bentonville, Arkansas 72716, USA, ("Assignee"), the assignee of certain assets of Assignor pursuant to the INTERCOMPANY AGREEMENT by and between Assignee and Assignor, dated as of January 31, 2018 (the "Patent Agreement").

WHEREAS, under the terms of the Patent Agreement. Assignor has conveyed, transferred and assigned and does hereby convey, transfer and assign to Assignee, certain intellectual property of Assignor as listed on <u>Schedule 1</u>, and has agreed to execute and deliver this Patent Assignment, for recording with governmental authorities:

NOW THEREFORE, the parties agree as follows:

Assignment. In consideration for the execution of the Patent Agreement and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged. Assignor has conveyed, transferred, and assigned and does hereby convey, transfer and assign to Assignee, and Assignee hereby accepts, all of Assignor's right, title and interest in and to the following (the "Assigned Patents and Applications"):

the patents and patent applications set forth in <u>Schedule 1</u> hereto and all issuances, divisions, continuations, continuations-in-part, reissues, extensions, reexaminations and renewals thereof;

all rights of any kind whatsoever of Assignor accraing under any of the foregoing provided by applicable law of any jurisdiction, by international treaties and conventions and otherwise throughout the world.

<u>Recordation and Further Actions</u>. Assignor authorizes any other governmental officials to record and register this Patent Assignment upon request by Assignee. Assignor shall take such steps and actions following the date hereof, including the execution of any documents, files, registrations, or other similar items, to ensure that the Assigned Patents and Applications are properly assigned to Assignee, or any assignee or successor thereto.

Terms of the Patent Agreement. The terms of the Patent Agreement, including, but not limited to, the representations, warranties, covenants, agreements and indemnities relating to the Assigned Patents and Applications are incorporated herein by this reference. The parties hereto acknowledge and agree that the representations, warranties, covenants, agreements and indemnities contained in the Patent Agreement shall not be superseded hereby but shall remain in full force and effect to the full extent provided therein. In the event of any conflict or inconsistency between the terms of the Patent Agreement and the terms hereof, the terms of the Patent Agreement shall govern.

Counterparts. This Patent Assignment may be executed in counterparts, each of which shall be deemed an original, but all of which together shall be deemed to be one and the same agreement. A signed copy of this Patent Assignment delivered by facsimile, e-mail or other means of electronic transmission shall be deemed to have the same legal effect as delivery of an original signed copy of this Patent Assignment.

<u>Successors and Assigns</u>. This Patent Assignment shall be binding upon and shall inure to the benefit of the parties hereto and their respective successors and assigns.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, Assignor has duly executed and delivered this Patent Assignment as of the date first above written.

Wal-Mart Stores, Inc. 702 Southwest 8th Street Bentonville, Arkansas 72716 USA

By: Hardon Y. allison

Name: Gordon Allison

Title: Vice President and General Counsel.

Corporate

| State of <u>Explor</u> | |
|------------------------|-------|
| State of Augusta |) |
| County of Bunton |) ss: |

On this, the day of Www, 2019, before me, a notary public, the undersigned officer, personally appeared Andrew known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Ohyle S. Myhlelell
Notary Public

My Commission Expires: 9-10-30

OFFICIAL SEAL
ANGELA YEKELCHIK
BENTON COUNTY
NOTARY PUBLIC - ARKANSAS
MY COMMISSION EXP. SEPT 10, 2020
COMMISSION# 12378708

IN WITNESS WHEREOF, Assignee has duly executed and delivered this Patent Assignment as of the date first above written.

Walmart Apollo, LLC 702 Southwest 8th Street Bentonville, Arkansas 72716

USA

By:

Name: Craig Sharkey

Title: President

State of Arkanses)

County of Benton) ss

On this, the \(\frac{\alpha}{\text{-}} \) day of \(\frac{\color \color \color

In witness hereof, I hereunto set my hand and official seal.

Notary Public

My Commission Expires:

9-10-20

OFFICIAL SEAL
ANGELA YEKELCHIK
BENTON COUNTY
NOTARY PUBLIC - ARKANSAS
MY COMMISSION EXP. SEPT 10, 2020
COMMISSION# 12378708

SCHEDULE 1

| Reference | Title | Serial # | Patent # |
|-----------|--|------------|-----------|
| 1190 | Systems and Methods for Clustering of Customers Using Transaction Patterns | 16/544,876 | |
| 1188 | Systems and Methods for Whole Page Personalization | 16/525,298 | |
| 1193 | System, Method, and Non-Transitory Computer-Readable Storage Media for Assigning Offers to a Plurality of Target Customers | 16/565,420 | |
| 616 | Systems and Methods for Inventory Replenishment and Allocation | 15/420,769 | |
| 1186 | Systems and Methods for Order Filling | 16/505,256 | |
| 1185 | System, Method, and Non-Transitory Computer-Readable Storage Media for Generating Synonyms of a Search Query | 16/457,973 | |
| 1176 | Systems and Methods for Utilizing a Convolutional Neural Network Architecture for Visual Product Recommendations | 16/397,884 | |
| 1035 | Systems for Learning and Using One or More Sub-Population Features Associated With Individuals of One or More Sub- Populations of a Gross Population and Related Methods Therefor | 62/548,287 | |
| 1033 | Automatic Personalized Email Triggers | 62/622,511 | |
| 1034 | Automatic Personalized Image-Based Search | 62/622,543 | |
| 1028 | Identifying Value Conscious People | 62/623,454 | |
| 1029 | Determining Brand Affinity of Customers | 62/623,477 | |
| 633 | Systems and Methods for Automated Recommendations | 15/420,852 | |
| 1173 | Systems and Methods for Distributive Data Storage | 16/278,327 | |
| 632 | Systems and Methods for Webpage Personalization | 15/420,822 | |
| 1107 | Systems and Methods for Dynamic Pricing | 16/202,065 | |
| 587 | Systems and Methods of Whole Page Personalization | 15/420,757 | 10,366,13 |
| 635 | Systems and Methods for Search Query Refinement | 15/420,678 | |
| 1126 | Synchronizing Database Data to a Database Cache | 16/173,913 | |
| 961 | System to Store, Manage Labels for Model Evaluation and Training | 62/250,940 | |
| 434-P1 | Network Device Inventory System | 60/823,206 | |
| 597 | Inventory Training | 15/229,962 | 10,217,08 |
| 82 | Automatic Selection of Featured Product Groups Within a Product Search Engine | 14/295,195 | 10,169,79 |
| 1117 | Methods and Systems for Prioritizing Stock-Keeping Units in Cost-Based Inventory Allocation | 16/128,493 | |
| 1115 | Routing Order Lookups From Retail Systems | 16/121,424 | <u> </u> |
| 573 | Systems and Methods for Order Filling | 15/011.096 | 10,346,79 |
| 1106 | System and Method for Capturing Seasonality and Newness in Database Searches | 16/045,569 | |
| 1095 | System and Method for Using Past or External Information for Future Search Results | 15/910,851 | |

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| 1128 | Systems and Methods for Clustering of Customers Using Transaction Patterns | 16/154,667 | 10,387,864 |
|--------|--|------------|------------|
| 1114 | Management of the Display of Online Ad Content Consistent With One or More Performance Objectives for a Webpage and and/or Website | 16/154,516 | |
| 588 | Use of Optical Images to Authenticate and Enable a Return With an Electronic Receipt | 15/071,591 | |
| 68-PCT | Reward Structures | US1341714 | |
| 40 | Audience Data Cloud | 61/427,363 | |
| 41 | Targeting Dynamic Advertisements to Online Users | 12/580,623 | |
| 42 | Displaying Retargeted Advertisements to Online Users | 12/580,626 | |
| 37 | Lead Feedback Analysis | 12/580,635 | |
| 54 | Digital-Marketing Platform for Structuring, Managing, and Optimizing Online Marketing Campaigns | 12/580,617 | |
| 38 | Selecting Optimized Creative Instances for Visitors Using Creative and Visitor Features | 12/580,613 | |

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