

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4908622

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| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                   |                       |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                       |                       |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                  |                       |
|                                                                                                                                                                                                 | <b>Name</b>                      | <b>Execution Date</b> |
|                                                                                                                                                                                                 | WAL-MART STORES, INC.            | 02/26/2018            |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                  |                       |
| <b>Name:</b>                                                                                                                                                                                    | WALMART APOLLO, LLC              |                       |
| <b>Street Address:</b>                                                                                                                                                                          | 702 SOUTHWEST 8TH STREET         |                       |
| <b>City:</b>                                                                                                                                                                                    | BENTONVILLE                      |                       |
| <b>State/Country:</b>                                                                                                                                                                           | ARKANSAS                         |                       |
| <b>Postal Code:</b>                                                                                                                                                                             | 72716                            |                       |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                                  |                       |
|                                                                                                                                                                                                 | <b>Property Type</b>             | <b>Number</b>         |
|                                                                                                                                                                                                 | Patent Number:                   | 9450970               |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                  |                       |
| <b>Fax Number:</b>                                                                                                                                                                              | (508)303-0005                    |                       |
| <i>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.</i> |                                  |                       |
| <b>Phone:</b>                                                                                                                                                                                   | 5083032003                       |                       |
| <b>Email:</b>                                                                                                                                                                                   | lguerin@iplawusa.com             |                       |
| <b>Correspondent Name:</b>                                                                                                                                                                      | SCHMEISER OLSEN & WATTS LLP      |                       |
| <b>Address Line 1:</b>                                                                                                                                                                          | 33 BOSTON POST ROAD WEST         |                       |
| <b>Address Line 2:</b>                                                                                                                                                                          | SUITE 410                        |                       |
| <b>Address Line 4:</b>                                                                                                                                                                          | MARLBOROUGH, MASSACHUSETTS 01752 |                       |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 252US01 (WMT-048)                |                       |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | KAREN E. JACHIMOWICZ             |                       |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Karen E. Jachimowicz/           |                       |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 04/10/2018                       |                       |
| <b>Total Attachments: 25</b>                                                                                                                                                                    |                                  |                       |
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## PATENT ASSIGNMENT

This PATENT ASSIGNMENT ("**Patent Assignment**"), effective as of January 31, 2018, is made by and between Wal-Mart Stores, Inc., 702 Southwest 8<sup>th</sup> Street, Bentonville, Arkansas 72716, USA, ("**Assignor**"), and Walmart Apollo, LLC, 702 Southwest 8<sup>th</sup> 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 Schedule 1, 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 Schedule 1 hereto and all issuances, divisions, continuations, continuations-in-part, reissues, extensions, reexaminations and renewals thereof;

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

Recordation and Further Actions. 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.

Successors and Assigns. 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]

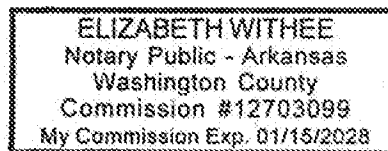
IN WITNESS WHEREOF, Assignor has duly executed and delivered this Patent Assignment as of the date first above written.

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

By: Gordon Y. Allison

Name: Gordon Allison  
Title: Vice President and General Counsel,  
Corporate

State of Arkansas )  
 ) ss:  
County of Garfield )



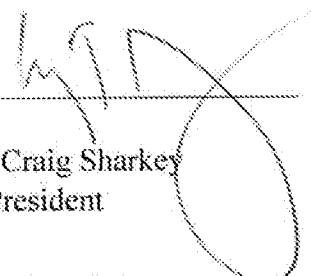
On this, the 21<sup>st</sup> day of February, 2018, before me, a notary public, the undersigned officer, personally appeared Gordon Allison, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

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

[Signature]  
Notary Public  
My Commission Expires: 01/15/2028

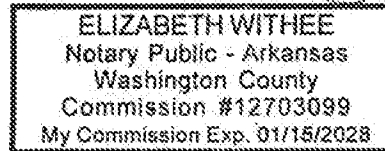
IN WITNESS WHEREOF, Assignee has duly executed and delivered this Patent Assignment as of the date first above written.

Walmart Apollo, LLC  
702 Southwest 8<sup>th</sup> Street  
Bentonville, Arkansas 72716  
USA

By: 

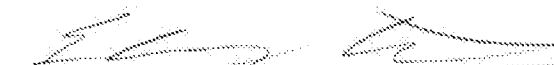
Name: Craig Sharkey  
Title: President

State of Arkansas )  
 ) ss:  
County of Benton )



On this, the 26<sup>th</sup> day of February, 2018, before me, a notary public, the undersigned officer, personally appeared Craig Sharkey, 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.

  
Notary Public  
My Commission Expires: 01/15/2028

## SCHEDULE 1

### Assigned Patents and Applications

| Ref. No. | Title                                                                             | Application No. | Patent No. |
|----------|-----------------------------------------------------------------------------------|-----------------|------------|
| 094US01  | WORKFORCE SCHEDULING SYSTEM AND METHOD                                            | 13662586        |            |
| 163US01  | ADJUSTABLE KIOSK SYSTEM                                                           | 13743948        |            |
| 166US01  | ONLINE APPOINTMENT SCHEDULERS                                                     | 13759599        |            |
| 306US01  | QUICK ROUTE QUEUED PRODUCTS AND SERVICES                                          | 14038850        |            |
| 397US02  | PROXIMITY ALERTS FOR SERVICE RESOURCE AVAILABILITY                                | 14862474        |            |
| 388US02  | RETAIL CHECKOUT SYSTEMS AND METHODS                                               | 15525809        |            |
| 539US03  | MEDICINE ADMINISTRATION SYSTEMS AND METHODS                                       | 15062468        |            |
| 567US02  | METHOD AND SYSTEM FOR MAINTAINING PERSONAL INVENTORY OF MEDICATION                | 15062450        |            |
| 568US02  | MEDICINE ADMINISTRATION SCHEDULING                                                | 15062488        |            |
| 596US02  | ENTRY, STORAGE AND RETRIEVAL OF MEDICAL INFORMATION FROM A PHARMACY               | 15062503        |            |
| 604US02  | METHOD AND SYSTEM FOR MOTIVATING PROPER PRESCRIPTION DRUG USAGE                   | 15062540        |            |
| 490US02  | ITEM LIST DISPLAY                                                                 | 15080628        |            |
| 730US02  | REFRIGERATION HEAT RECLAIM                                                        | 15044772        |            |
| 600US02  | SYNTHETIC EGG                                                                     | 15137282        |            |
| 481US03  | SYSTEMS AND METHODS FOR CONTROLLING MOBILE DEVICE USE                             | 15850022        |            |
| 537US02  | SYSTEM AND METHOD FOR INVENTORY MANAGEMENT                                        | 15157837        |            |
| 538US02  | SYSTEM AND METHOD OF INVENTORY MANAGEMENT                                         | 15157862        |            |
| 553US02  | SYSTEM AND METHOD FOR DETERMINING A SEQUENCE FOR PERFORMING A PLURALITY OF TASKS  | 15053480        |            |
| 616US02  | SYSTEMS AND METHODS FOR PRESENTING STORE SALES DATA TO A MOBILE ELECTRONIC DEVICE | 15148280        |            |
| 685US02  | NEAR-FIELD COMMUNICATION LABELS FOR STORE SHELVES                                 | 15137249        |            |

# SCHEDULE 1 CONTINUED

| Ref. No. | Title                                                                                       | Application No. | Patent No. |
|----------|---------------------------------------------------------------------------------------------|-----------------|------------|
| 468US02  | SYSTEM AND METHOD FOR MAPPING PRODUCT LOCATIONS                                             | 15095451        |            |
| 207US01  | Automated Limited-Time Retail Merchandise Promotion System                                  | 13866252        |            |
| 265US01  | Personal Merchandise Cataloguing System with Item Tracking and Social Network Functionality | 13962081        |            |
| 754US02  | PALATABILITY ENHANCER WITH ADDED AROMA FOR APPLICATION TO PET FOOD PRODUCTS                 | 15133427        |            |
| 688US02  | GEOLOCATION ANALYTICS                                                                       | 15164207        |            |
| 210US02  | System and Method for Providing Assistance                                                  | 14180135        |            |
| 217US01  | System and Method for Storing and Processing Web Service Requests                           | 13960192        |            |
| 217US03  | CACHING SYSTEM AND METHOD                                                                   | 15143953        |            |
| 252US02  | Automatic Blocking of Bad Actors across a Network                                           | 15246876        |            |
| 284US03  | CROWD PLANNING TOOL                                                                         | 14615614        |            |
| 081US03  | SEQUENCE ENGINE                                                                             | 15475797        |            |
| 373US02  | SYSTEMS AND METHODS FOR MANAGING SELF CHECK OUT SERVICES                                    | 14815012        |            |
| 373US02  | METHOD AND SYSTEM FOR A VISIT-BASED LOYALTY REWARD PROGRAM                                  | 15329379        |            |
| 354US02  | METHOD AND SYSTEM FOR CUSTOMER CHECKOUT                                                     | 14811032        |            |
| 767US02  | DRY AND MOIST PIECE CHEESEBURGER PET FOOD                                                   | 15143923        |            |
| 485US02  | TACTILE NAVIGATION SYSTEMS AND METHODS                                                      | 15198162        |            |
| 394US02  | SYSTEMS AND METHODS FOR DETERMINING MEASUREMENT DATA OF AN ITEM                             | 15204206        |            |
| 502US02  | ACTIVITY MONITORING SYSTEM AND METHOD                                                       | 15148211        |            |
| 662US02  | APPARATUS AND METHOD FOR EXECUTING ON-LINE PURCHASES                                        | 15210084        |            |
| 778US02  | PRODUCE WEIGH STATION AND METHOD OF USE                                                     | 15271468        |            |
| 781US02  | SENSORY STIMULATION CONTROLS FOR RETAIL ENVIRONMENT                                         | 15213664        |            |
| 795US02  | TRANSACTION SIGNALING DEVICES IN SHOPPING ENVIRONMENT                                       | 15746946        |            |
| 835US02  | SYSTEM FOR AUTOMATIC SIGNATURE FOR RECEIPT VERIFICATION                                     | 15204021        |            |

# SCHEDULE 1 CONTINUED

| Ref. No. | Title                                                                 | Application No. | Patent No. |
|----------|-----------------------------------------------------------------------|-----------------|------------|
| 525US02  | CUSTOMER MOVEMENT MONITORING SYSTEM AND METHOD                        | 15180708        |            |
| 770US02  | SYSTEM AND METHOD FOR TRACKING                                        | 15241848        |            |
| 872US02  | SYSTEM FOR REDUCING WAITING TIME                                      | 15235450        |            |
| 782US02  | NFC TO CUSTOMER PROFILE SYSTEMS AND METHODS                           | 15241580        |            |
| 723US03  | COMMUNICATION SYSTEM AND METHOD                                       | 15720303        |            |
| 725US04  | COMMUNICATION SYSTEM AND METHOD                                       | 15877742        |            |
| 844US02  | CUSTOMER LOYALTY PROGRAM ACROSS MULTIPLE SHOPPING CHANNELS            | 15293330        |            |
| 839US02  | SYSTEMS AND METHODS FOR DELIVERING GOODS TO CONSUMERS                 | 15297256        |            |
| 470US03  | SYSTEM AND METHOD FOR MAPPING WIRELESS NETWORK COVERAGE               | 15855226        |            |
| 858US02  | RETAIL SUBSCRIPTION IN INTERNET OF THINGS ENVIRONMENT                 | 15297426        |            |
| 1020US02 | PRESCRIPTION HOME DELIVERY                                            | 15348449        |            |
| 1030US01 | CHECK-IN TO CHECKOUT SYSTEMS AND METHODS                              | 15308473        |            |
| 557US02  | DEVICE AND METHOD FOR DIRECTING EMPLOYEE MOVEMENT                     | 15342349        |            |
| 1025US02 | UNMANNED AERIAL DELIVERY TO SECURE LOCATION                           | 15360091        |            |
| 1036US01 | COMMON INTERFACE/EXPERIENCE FOR MOBILE WALLET SYSTEMS AND METHODS     | 15308482        |            |
| 1059US02 | SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME          | 15383126        |            |
| 1092US02 | RETAIL STORE FIXTURE AND METHOD OF STERILIZING A RETAIL STORE FIXTURE | 15381536        |            |
| 1103US02 | SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME          | 15383151        |            |
| 1115US02 | SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME          | 15383170        |            |
| 1116US02 | MOBILE BAGGING STATION                                                | 15383203        |            |
| 902US03  | SHOPPING PARTY LOCATOR SYSTEMS AND METHODS                            | 15831759        |            |
| 958US02  | INSTANT RENTAL SERVICE RESERVATION SYSTEMS AND METHODS                | 15370801        |            |
| 939US02  | SYSTEMS AND METHODS FOR PRODUCT WARRANTY REGISTRATION AND TRACKING    | 15384630        |            |

# SCHEDULE 1 CONTINUED

| Ref. No. | Title                                                                                           | Application No. | Patent No. |
|----------|-------------------------------------------------------------------------------------------------|-----------------|------------|
| 1013US02 | SMART SHOPPING CART AND METHOD OF USE                                                           | 15372528        |            |
| 1088US02 | SHOPPING CART POWER GENERATION                                                                  | 15410185        |            |
| 1042US02 | SHOPPING CART DISPLAY                                                                           | 15383227        |            |
| 689US02  | INTERACTIVE GAMING SYSTEMS AND METHODS                                                          | 15381591        |            |
| 928US02  | METHOD AND SYSTEM TO SUPPORT ORDER COLLECTION USING A GEO-FENCE                                 | 15364562        |            |
| 1159US02 | SYSTEM AND METHOD FOR GENERATING SHIPPING OPTIONS                                               | 15461592        |            |
| 1192US02 | SELF-SERVICE VIRTUAL STORE SYSTEM                                                               | 15666873        |            |
| 1248US02 | SYSTEM AND METHOD FOR PAYING FOR GOODS AT A DOOR                                                | 15673244        |            |
| 1170US02 | BAGGING STATION FOR FILLING PAPER-TYPE BAGS                                                     | 15415026        |            |
| 1179US02 | SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME                                    | 15433365        |            |
| 1219US02 | SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME                                    | 15433388        |            |
| 1177US02 | WASTE COLLECTION SYSTEM AND METHOD                                                              | 15425287        |            |
| 1212US02 | STORE ITEM RETURN PROCESS                                                                       | 15451562        |            |
| 1023US02 | PHYSICAL SHOPPING WITH PHYSICAL AND/OR VIRTUALIZED CUSTOMER ASSISTANCE                          | 15418102        |            |
| 1035US02 | MULTIPLE PRODUCT ATTRIBUTE VISUALIZATION                                                        | 15456671        |            |
| 1405US02 | SYSTEMS AND METHODS FOR DETECTING AND WARNING OF THE PRESENCE OR ABSENCE OF AUTOMOBILE OCCUPANT | 15457567        |            |
| 1440US03 | COOKING SYSTEM                                                                                  | 15472631        |            |
| 1440US02 | COOKING SYSTEM                                                                                  | 29569358        |            |
| 1249US02 | PREDICTIVE SHOPPING                                                                             | 15453003        |            |
| 1101US02 | FRESH PERISHABLE STORE ITEM NOTIFICATION SYSTEMS AND METHODS                                    | 15444680        |            |
| 1105US02 | SYSTEMS AND METHODS FOR PURCHASING FRESH FOOD ITEMS ONLINE                                      | 15452911        |            |

# SCHEDULE 1 CONTINUED

| Ref. No. | Title                                                                                                 | Application No. | Patent No. |
|----------|-------------------------------------------------------------------------------------------------------|-----------------|------------|
| 797US02  | AUDIO/VISUAL RECORDING APPARATUS, AUDIO/VISUAL RECORDING AND PLAYBACK SYSTEM AND METHODS FOR THE SAME | 15393313        |            |
| 1169US02 | IMAGE IN-STOCK CHECKER                                                                                | 15448648        |            |
| 1408US02 | SMART PACKAGE                                                                                         | 15684991        |            |
| 1011US02 | CUSTOM KIOSK                                                                                          | 15642998        |            |
| 1198US02 | PAYMENT REGISTER SYSTEM AND METHOD OF OPERATING A PLURALITY OF PAYMENT REGISTERS                      | 15472679        |            |
| 1152US02 | STORE ITEM DELIVERY SYSTEMS AND METHODS                                                               | 15475323        |            |
| 1451US02 | BAGGING STATION SUPPORT FRAME AND METHOD OF FORMING THE SAME                                          | 15666942        |            |
| 1452US02 | SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME                                          | 15676143        |            |
| 1453US02 | SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME                                          | 15676218        |            |
| 1938US01 | CALL BUTTON BRACKET                                                                                   | 29561717        |            |
| 1939US03 | CALL BUTTON BRACKET                                                                                   | 15475543        |            |
| 1218US02 | WEARABLE SECURITY APPARATUS                                                                           | 15633881        |            |
| 1287US02 | SYSTEM AND METHOD FOR FRESH ONLINE EXPERIENCE                                                         | 15628757        |            |
| 2124US02 | WHEELED CART FOR TRANSPORTING STORE ITEMS                                                             | 15498606        |            |
| 1544US02 | CUSTOMER MANAGEMENT SYSTEM                                                                            | 15783220        |            |
| 1545US02 | VENDOR PAYMENT SHARING SYSTEM                                                                         | 15783313        |            |
| 1546US02 | CUSTOMER INTERFACE SYSTEM                                                                             | 15783453        |            |
| 1134US02 | IN-STORE NAVIGATION SYSTEMS AND METHODS                                                               | 15667104        |            |
| 1245US02 | VEHICLE SERVICE KIOSK SYSTEM                                                                          | 15659726        |            |
| 1416US02 | SHOPPING CART FOR VISION-IMPAIRED USERS                                                               | 15674747        |            |
| 1535US02 | AUTOMATED STORE RETURN PROCESS                                                                        | 15662456        |            |
| 1532US02 | PRODUCE SELECTION SYSTEM FOR SINGLE ITEMS                                                             | 15673483        |            |
| 1536US02 | PRODUCE SELECTION SYSTEM FOR BULK ITEMS                                                               | 15673489        |            |
| 1541US02 | LAYAWAY SYSTEM                                                                                        | 15807928        |            |

# SCHEDULE 1 CONTINUED

| Ref. No. | Title                                                                      | Application No. | Patent No. |
|----------|----------------------------------------------------------------------------|-----------------|------------|
| 917US02  | LANDSCAPE DESIGN SYSTEMS AND METHODS                                       | 15667020        |            |
| 860US02  | SOCIAL ENGINEERING THROUGH GAMIFICATION                                    | 15655956        |            |
| 1503US02 | BAG RETAINING FIXTURE                                                      | 15695306        |            |
| 1504US02 | BAG RETAINING FIXTURE                                                      | 15695401        |            |
| 1703US02 | PACKAGE AS KEY                                                             | 15642374        |            |
| 1844US02 | COURIER SHOPPING SYSTEM                                                    | 15783555        |            |
| 1040US02 | PROCESSING PAYMENT REFUNDS FOR INVALID PAYMENT INSTRUMENTS                 | 15712416        |            |
| 1651US02 | AUTOMOBILE INFORMATION BEACON                                              | 15659843        |            |
| 2189US01 | WALL MOUNT FIXTURE                                                         | 29566596        |            |
| 2191US02 | MOBILE COMPUTING DEVICE HOLDER                                             | 15602227        |            |
| 1614US02 | MODULAR BAGGING APPARATUS FOR WEIGHT SCALE                                 | 15622146        |            |
| 2238US01 | BAGGING APPARATUS                                                          | 29567968        |            |
| 2239US02 | SELF-CHECKOUT REGISTER CONFIGURATIONS                                      | 15622136        |            |
| 1076US02 | PRODUCT PART PICTURE PICKER                                                | 15682947        |            |
| 2347US01 | RETAIL STORE FIXTURE                                                       | 29568259        |            |
| 2326US02 | MOBILE COMPUTING DEVICE HOLDER                                             | 15657693        |            |
| 2227US02 | SHOPPING CART BASKET                                                       | 15641367        |            |
| 2392US03 | APPAREL RACK                                                               | 15636054        |            |
| 965US02  | SENSING DEVICE FOR SHOPPING CART                                           | 15685015        |            |
| 1001US02 | SYSTEMS AND METHODS FOR CONTROLLING A DISPLAY OF CONTENT IN A RETAIL STORE | 15729843        |            |
| 1153US02 | RECIPE MANAGEMENT SYSTEM                                                   | 15724289        |            |
| 1351US01 | WARRANTY TRACKING SYSTEM                                                   | 15875434        |            |
| 1582US02 | RETAIL STORE SCANNING GAME AND PURCHASE SYSTEM                             | 15789383        |            |
| 1647US02 | HANGER DEVICE AND KEY HOLDER                                               | 15702831        |            |
| 1661US02 | CAMERA GESTURE CLOCK IN                                                    | 15690695        |            |
| 1676US02 | RETAIL STORE CART                                                          | 15703208        |            |

# SCHEDULE 1 CONTINUED

| Ref. No. | Title                                                                | Application No. | Patent No. |
|----------|----------------------------------------------------------------------|-----------------|------------|
| 1702US02 | SHELVING SYSTEM HAVING STOWABLE SHELVES                              | 15730023        |            |
| 1707US02 | LANDING PAD RECEPTACLE FOR PACKAGE DELIVERY AND RECEIPT              | 15712310        |            |
| 1711US02 | MICRO STORE LOCATION PROJECTOR                                       | 15690758        |            |
| 1712US02 | PROMOTING STORE ITEMS USING AUGMENTED REALITY GAMING APPLICATIONS    | 15728952        |            |
| 1899US02 | SYSTEMS AND METHODS FOR DIRECTING A USER TO A LOCATION OF INTEREST   | 15726700        |            |
| 1982US02 | SENSOR BASED REORDERING SYSTEM                                       | 15685060        |            |
| 2040US02 | AUTOMATED POINT OF SALE SYSTEM                                       | 15722220        |            |
| 2558US02 | REDUCING CYBERSECURITY RISKS WHEN PURCHASING PRODUCTS OVER A NETWORK | 15802904        |            |
| 2259US02 | AUTHENTICATING ONLINE TRANSACTIONS USING SEPARATE COMPUTING DEVICE   | 15802775        |            |
| 915US02  | AUTOMATIC CLUB MEMBERSHIP                                            | 15690833        |            |
| 2442US02 | BAG DISPENSER                                                        | 15653768        |            |
| 1471US02 | SELF-RETURN                                                          | 15711368        |            |
| 2320US02 | SMART CART FOR SELF-CHECKOUT OF RETAIL MERCHANDISE                   | 15356908        |            |
| 2621US02 | INVENTORY PROCESSING CART AND METHOD OF USE THEREOF                  | 15667176        |            |
| 2557US01 | SELF-CHECKOUT STATION                                                | 29574947        |            |
| 2558US02 | SELF-CHECKOUT STATION AIR CIRCULATION                                | 15677143        |            |
| 2764US02 | ORDER FULFILLMENT CART HAVING NESTING CAPABILITY                     | 15684483        |            |
| 2767US02 | RECEPTACLE AND COVER                                                 | 15647544        |            |
| 2455US02 | MULTI-COMPARTMENT MODULAR COOLER                                     | 15712227        |            |
| 2455US03 | MULTI-COMPARTMENT MODULAR COOLER                                     | 29621300        |            |
| 2903US02 | SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME         | 15703307        |            |
| 2008US02 | ELECTRONIC COMMUNICATIONS IN CONNECTION WITH A PACKAGE DELIVERY      | 15869476        |            |
| 2192US02 | SYSTEMS AND METHODS FOR DETERMINING SHELF OCCUPANCY                  | 15823950        |            |

# SCHEDULE 1 CONTINUED

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|----------|------------------------------------------------------------------------------------------|-----------------|------------|
| 2463US02 | OBTAINING A MEDICAL RECORD STORED ON A BLOCKCHAIN FROM A WEARABLE DEVICE                 | 15840589        |            |
| 2465US02 | CONTROLLING ACCESS TO A LOCKED SPACE USING CRYPTOGRAPHIC KEYS STORED ON A BLOCKCHAIN     | 15840663        |            |
| 2466US02 | MANAGING A DEMAND ON AN ELECTRICAL GRID USING A PUBLICLY DISTRIBUTED TRANSACTIONS LEDGER | 15840724        |            |
| 2514US02 | VERIFYING AUTHENTICITY OF COMPUTER READABLE INFORMATION USING THE BLOCKCHAIN             | 15840792        |            |
| 1704US02 | HANDS-FREE SHOPPING APPLICATIONS INCLUDING SCANNING FUNCTIONS                            | 15840398        |            |
| 713US02  | MODULAR LABEL TRACK SYSTEM                                                               | 15848769        |            |
| 1715US02 | DYNAMIC POWER SENSING SYSTEM                                                             | 15849758        |            |
| 1716US02 | PRODUCT TRACKING SYSTEM                                                                  | 15849786        |            |
| 1717US02 | STOCKING TOOL                                                                            | 15841400        |            |
| 1751US02 | PRODUCT REPLACEMENT SYSTEM                                                               | 15820511        |            |
| 1831US02 | SELF-LOCKING CLIP MECHANISM AND MOBILE DEVICE HOLDER INCORPORATING THE SAME              | 15849848        |            |
| 1922US02 | BAGGING STATION BAGGING CLIP                                                             | 15472658        |            |
| 1997US02 | BAGGING CLIP TOOL AND METHOD OF FORMING THE SAME                                         | 15831561        |            |
| 1951US02 | STATIC ELECTRICITY SENSING APPLICATIONS IN RETAIL ENVIRONMENT                            | 15879856        |            |
| 1427US02 | FOOD PRODUCT SPOILAGE DETECTION                                                          | 15856203        |            |
| 2031US02 | TASK MANAGEMENT IN RETAIL ENVIRONMENT                                                    | 15880574        |            |
| 3123US02 | FRESH PRODUCTION PLANNER                                                                 | 15831520        |            |
| 2115US02 | CHECKOUT STATION BUMPER                                                                  | 15860984        |            |
| 2170US02 | CHECKOUT STATION WITH HANGER HOOK                                                        | 15875314        |            |
| 2062US02 | PANEL POWERED PRODUCE DISPLAY TABLE                                                      | 15880016        |            |
| 2169US02 | HANDLE CLIP MECHANISM                                                                    | 15879786        |            |
| 3797US01 | HANDLE CLIP MECHANISM                                                                    | 29593683        |            |

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|----------|------------------------------------------------------------------------------------|-----------------|------------|
| 1877US02 | PROCESSING SELF-CHECKOUT TRANSACTION USING PORTABLE DEVICE LINKED TO MOBILE DEVICE | 15881897        |            |
| 2548US02 | RETRACTABLE BAGGING STATION                                                        | 15798642        |            |
| 2457US02 | CLOUD SECURITY STACK                                                               | 15881267        |            |
| 3075US02 | AUTOMATED SELECTING AND MIXING MACHINE                                             | 15878671        |            |
| 1100US02 | AUTHENTICATED PURCHASE OF RESTRICTED ITEMS                                         | 15410402        |            |
| 339US01  | SYSTEMS AND METHODS FOR PROVIDING SHOPPING RECOMMENDATIONS                         | 14098318        |            |
| 376US02  | PROVIDING RELEVANT PRODUCT DEMONSTRATIONS                                          | 15329862        |            |
| 447US02  | DRIVE THROUGH GROCERY PICKUP                                                       | 14828245        |            |
| 810US02  | SYSTEMS AND METHODS FOR SELECTING MEDIA FOR MEAL PLANS                             | 15184829        |            |
| 992US02  | RESIDENTIAL UPGRADE DESIGN TOOL                                                    | 15379332        |            |
| 3284US02 | PORTABLE HAMMOCK STYLE CHAIR                                                       | 15877685        |            |
| 3043US02 | NURSING PILLOW AND METHODS FOR EFFICIENT DISPLAY OF NURSING PILLOWS                | 15881822        |            |
| 3725US01 | TOTE INSERT                                                                        | 29610548        |            |
| 105US01  | SYSTEM AND METHOD FOR PROTECTING DATA IN AN ENTERPRISE ENVIRONMENT                 | 13687550        | 9043874    |
| 157US01  | CROSS PLATFORM WORKFLOW MANAGEMENT                                                 | 13740325        | 9400728    |
| 248US01  | COMPUTER DATA VOLUME TRACKER SYSTEM AND METHOD                                     | 13950558        |            |
| 280US01  | VALUE AT RISK INSIGHTS ENGINE                                                      | 13947851        | 9336503    |
| 481US02  | SYSTEMS AND METHODS FOR CONTROLLING MOBILE DEVICE USE                              | 15094137        | 9900777    |
| 141US02  | Extended Language Precompiler                                                      | 14205978        | 9122489    |
| 217US02  | System and Method for Processing Web Service Transactions Using Timestamp Data     | 13960266        | 9336265    |
| 247US01  | SYSTEMATIC DISCOVERY OF BUSINESS ONTOLOGY                                          | 13974318        | 9519872    |
| 252US01  | Automatic Blocking of Bad Actors                                                   | 13964543        | 9450970    |
| 080US01  | THROTTLING MECHANISM                                                               | 13490792        | 9146978    |
| 081US01  | SEQUENCE ENGINE                                                                    | 13490786        | 8972344    |

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|----------|-----------------------------------------------------------------------------------------------|-----------------|------------|
| 081US02  | SEQUENCE ENGINE                                                                               | 14602420        | 9639593    |
| 301US02  | SYSTEM AND METHOD FOR GENERATING SYNTHETIC DATA FOR SOFTWARE TESTING PURPOSES                 | 14694387        | 9710365    |
| 414US03  | UNIVERSAL MEDIA POCKET AND CHAIR WITH UNIVERSAL MEDIA POCKET                                  | 14811187        | 9642466    |
| 414US02  | UNIVERSAL MEDIA POCKET                                                                        | 29498141        | D771943    |
| 042US01  | TIME SINCE BREW INDICATOR FOR BEVERAGE MAKER                                                  | 12403051        | 8397625    |
| 041US01  | Liquid Director For Beverage Maker                                                            | 12402987        | 8667891    |
| 043US01  | Cleaning Cycle Indicator and Cleaning Process for Beverage Maker                              | 12403015        | 8511220    |
| 044US01  | Cooking Apparatus and Method                                                                  | 12500430        | 8648282    |
| 048US02  | Processing Apparatus and Method                                                               | 12870346        | 8262005    |
| 511US01  | SYSTEMS, METHODS AND COMPUTER PROGRAM PRODUCTS FOR INTEGRATING ADVERTISING WITHIN WEB CONTENT | 12688548        | 8862779    |
| 725US02  | COMMUNICATION SYSTEM AND METHOD                                                               | 15211115        | 9820107    |
| 470US02  | SYSTEM AND METHOD FOR MAPPING WIRELESS NETWORK COVERAGE                                       | 15332286        | 9888390    |
| 1060US01 | SHOPPING CART HANDLE MECHANISM                                                                | 29548742        | D793646    |
| 1172US02 | BAGGING STATION SUPPORT FRAME AND METHOD OF FORMING THE SAME                                  | 15381552        | 9844283    |
| 902US02  | SHOPPING PARTY LOCATOR SYSTEMS AND METHODS                                                    | 15494037        | 9865148    |
| 1154US02 | PORTABLE COMPUTING DEVICE HOLDER                                                              | 15444739        | 9877601    |
| 020US02  | STORED VALUE CARD VALIDATION                                                                  | 11277426        | 7445147    |
| 025US01  | SOLAR HEATING SYSTEM AND ARCHITECTURAL STRUCTURE WITH A SOLAR HEATING SYSTEM                  | 11625662        | 7677243    |
| 1913US01 | BAGGING STATION BAGGING CLIP                                                                  | 29560807        | D795061    |
| 2111US01 | COUPLING                                                                                      | 29566595        | D799310    |
| 2324US01 | CORNER MOUNT FIXTURE                                                                          | 29572493        | D811199    |
| 2387US01 | SHOPPING CART BASKET                                                                          | 29572901        | D796771    |
| 2627US01 | INVENTORY PROCESSING CART                                                                     | 29574939        | D806977    |

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|----------|--------------------------------------------------------------------------------------------------------------|-----------------|------------|
| 2066US01 | TRACKING ASSOCIATE INTERACTION                                                                               | 62481464        | 2066US01   |
| 1830US01 | MOBILE DEVICE HOLDER                                                                                         | 62455126        | 1830US01   |
| 1843US01 | AUTOMATED CHECKOUT                                                                                           | 62480938        | 1843US01   |
| 1654US01 | ELECTRONIC SAVINGS CONVERSION<br>AND REDEMPTION IN A POINT OF SALE<br>ENVIRONMENT                            | 62475594        | 1654US01   |
| 1194US01 | RULES-BASED VOUCHER<br>MANAGEMENT SYSTEM AND METHOD<br>FOR PROCESSING SELF-SERVICE<br>SUBSTANTIATION VOUCHER | 62501929        | 1194US01   |
| 1140US01 | ELECTRONIC GAME CREDIT                                                                                       | 62511712        | 1140US01   |
| 812US01  | ENTERPRISE INTEGRATION<br>PROCESSING FOR MAINFRAME COBOL<br>PROGRAMS                                         | 62469320        | 812US01    |
| 2027US01 | DETECTING FRAUDULENTLY<br>DEACTIVATED SECURITY DEVICES<br>FOR ASSET PROTECTION                               | 62531678        | 2027US01   |
| 2032US01 | UNMANNED VEHICLE IN SHOPPING<br>ENVIRONMENT                                                                  | 62467882        | 2032US01   |
| 2036US01 | BAG RECYCLING PROGRAM                                                                                        | 62468211        | 2036US01   |
| 2047US01 | VOICE ACTIVATED PAYMENT                                                                                      | 62517509        | 2047US01   |
| 2125US01 | CUSTOMER INTERACTION SYSTEM                                                                                  | 62480949        | 2125US01   |
| 2126US01 | THREE-DIMENSIONAL PRINTING GUN                                                                               | 62508852        | 2126US01   |
| 2424US01 | RETRACTABLE CORD SYSTEM FOR<br>HAND SCANNER DEVICE AT SELF<br>CHECKOUT COUNTER                               | 62470479        | 2424US01   |
| 2460US01 | COLLECTIBLE BIN CABINET AND<br>LEVEL REPORTING SYSTEM FOR A<br>CHECKOUT STATION                              | 62468221        | 2460US01   |
| 1876US01 | PACKAGE TRACKING                                                                                             | 62480925        |            |
| 1937US01 | CASH SECURITY SYSTEM FOR A<br>RETAIL STORE                                                                   | 62470743        |            |
| 2444US01 | PREDICTING REALISTIC TIME OF<br>ARRIVAL FOR QUEUE PRIORITY<br>ADJUSTMENT                                     | 62502161        |            |
| 2174US01 | SHOPPING CART AND METHOD OF<br>FORMING A SHOPPING CART                                                       | 62481231        |            |
| 2287US01 | SYSTEM AND METHOD FOR<br>DETERMINING CONDITIONS OF STORE<br>PRODUCE DISPLAY                                  | 62481438        |            |

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|----------|----------------------------------------------------------------------------------------------------|-----------------|------------|
| 2289US01 | MOTORIZED HEIGHT ADJUSTOR AND CHECKOUT STATION WITH ADJUSTABLE HEIGHT CONVEYOR BELT                | 62483706        |            |
| 2037US01 | VIDEO CARD TRAINING PROGRAM                                                                        | 62515925        |            |
| 2332US01 | CROWDSOURCING TECHNIQUES FOR PROCESSING PRODUCT CONTENT                                            | 62511736        |            |
| 3095US01 | SHOPPING CART WITH SENSOR SYSTEM                                                                   | 62517012        |            |
| 3047US01 | SHOPPING CART WITH SCANNER SYSTEM                                                                  | 62508135        |            |
| 2900US01 | GUIDANCE SYSTEM FOR PROCESSING SELF-SERVICE ORDERS AT KIOSK STATIONS                               | 62515749        |            |
| 3857US01 | UNIVERSAL COUPLING DEVICES FOR SHOPPING CART                                                       | 62520107        |            |
| 3069US01 | MONITOR BRACKET                                                                                    | 62541885        |            |
| 3931US01 | TETHER SYSTEM                                                                                      | 62519460        |            |
| 3918US01 | COLLAPSIBLE CUP HOLDER SYSTEM                                                                      | 62541895        |            |
| 342PR    | BAGGING STATION SYSTEM AND BAGGING STATION BRACKET                                                 | 62529174        |            |
| 2348US01 | VALIDATING IDENTIFICATION OF A USER AT A MOBILE POINT OF SALE FOR PURCHASE OF AGE-RESTRICTED ITEMS | 62542525        |            |
| 4213US01 | SHOPPING CART BAGGING STATION                                                                      | 62546850        |            |
| 3384US01 | CABINET LOCK AND LOCKING CABINET SECURITY SYSTEM                                                   | 62557963        |            |
| 4175US01 | BAG RETAINING FIXTURE                                                                              | 62577433        |            |
| 4361US01 | MOBILE DEVICE HOLDER                                                                               | 62578967        |            |
| 4382US01 | HOLDER FOR MULTIPLE MOBILE ELECTRONIC DEVICES                                                      | 62578970        |            |
| 4249US01 | STORE DISPLAY FOR MOBILE COMPUTING DEVICES                                                         | 62579334        |            |
| 4454US01 | CART MOUNTED CUP HOLDER                                                                            | 62555532        |            |
| 4275US01 | SHOPPING CART BAGGING STATION                                                                      | 62550175        |            |
| 3929US01 | APPAREL CART                                                                                       | 62561506        |            |
| 4219US01 | SYSTEMS AND METHODS FOR PROCESSING STORE RETURNS                                                   | 62615556        |            |
| 4665US01 | CARTS FOR MOBILE CHECKOUT OF LAWN AND GARDEN PURCHASES                                             | 62593472        |            |

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|----------|-----------------------------------------------------------------------|-----------------|------------|
| 4795US01 | SHOPPING BAG DISTRIBUTION STATION                                     | 62622364        |            |
| 101US01  | STORE FEATURE ITEM FINDER APPLICATION                                 | 13787887        |            |
| 148US01  | SYSTEM AND METHOD FOR PURCHASING GOODS FOR DONATION TO CHARITIES      | 13740546        |            |
| 298US01  | APPLICATION AUTHENTICATION CHECKING SYSTEM                            | 14037638        |            |
| 173US01  | Framework for Generating a Personalized Item List                     | 13721368        |            |
| 210US01  | System and Method for Providing Assistance                            | 13945213        |            |
| 451US03  | DECORATIVE EGG SYSTEM AND METHOD                                      | 14947071        |            |
| 451US04  | DECORATIVE EGG SYSTEM AND METHOD                                      | 14975311        |            |
| 397US01  | PROXIMITY ALERTS FOR SERVICE RESOURCE AVAILABILITY                    | 62055941        |            |
| 388US01  | RETAIL CHECKOUT SYSTEMS AND METHODS                                   | 62098390        |            |
| 539US01  | SYSTEM AND METHOD FOR PROVIDING MEDICINE ADMINISTRATION NOTIFICATIONS | 62132685        |            |
| 539US02  | MEDICINE ADMINISTRATION SYSTEMS AND METHODS                           | 62219831        |            |
| 567US01  | METHOD AND SYSTEM FOR MAINTAINING PERSONAL INVENTORY OF MEDICATION    | 62132675        |            |
| 568US01  | MEDICINE ADMINISTRATION SCHEDULING                                    | 62132691        |            |
| 596US01  | ENTRY, STORAGE AND RETRIEVAL OF MEDICAL INFORMATION FROM A PHARMACY   | 62132734        |            |
| 604US01  | METHOD AND SYSTEM FOR MOTIVATING PROPER PRESCRIPTION DRUG USAGE       | 62132745        |            |
| 490US01  | ITEM LIST DISPLAY                                                     | 62142145        |            |
| 730US01  | REFRIGERATION HEAT RECLAIM                                            | 62120020        |            |
| 765US01  | RECYCLING SYSTEM AND METHOD                                           | 62107014        |            |
| 600US01  | SYNTHETIC EGG                                                         | 62165402        |            |
| 481US01  | SYSTEMS AND METHODS FOR CONTROLLING MOBILE DEVICE USE                 | 62145823        |            |
| 537US01  | SYSTEM AND METHOD FOR INVENTORY MANAGEMENT                            | 62167363        |            |

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|----------|-----------------------------------------------------------------------------------|-----------------|------------|
| 538US01  | SYSTEM AND METHOD OF INVENTORY MANAGEMENT                                         | 62167370        |            |
| 553US01  | SYSTEM AND METHOD FOR DETERMINING A SEQUENCE FOR PERFORMING A PLURALITY OF TASKS  | 62145076        |            |
| 616US01  | SYSTEMS AND METHODS FOR PRESENTING STORE SALES DATA TO A MOBILE ELECTRONIC DEVICE | 62158101        |            |
| 685US01  | NEAR-FIELD COMMUNICATION LABELS FOR STORE SHELVES                                 | 62153064        |            |
| 468US01  | SYSTEM AND METHOD FOR MAPPING PRODUCT LOCATIONS                                   | 62156603        |            |
| 754US01  | PALATABILITY ENHANCER WITH ADDED AROMA FOR APPLICATION TO PET FOOD PRODUCTS       | 62152157        |            |
| 688US01  | GEOLOCATION ANALYTICS                                                             | 62168330        |            |
| 373US01  | Systems and Methods for Managing Self Check Out Services                          | 62031216        |            |
| 301US01  | System and Method for Generating Synthetic Data for Software Testing Purposes     | 61984309        |            |
| 414US01  | UNIVERSAL MEDIA POCKET                                                            | 62031513        |            |
| 451US01  | Decorative Egg System and Method                                                  | 62082916        |            |
| 451US02  | DECORATIVE EGG SYSTEM AND METHOD                                                  | 62203121        |            |
| 375US01  | METHOD AND SYSTEM FOR LOYALTY BASED REWARDS PROGRAM FOR RETAIL STORES             | 62030369        |            |
| 354US01  | METHOD AND SYSTEM FOR CUSTOMER CHECKOUT                                           | 62031364        |            |
| 767US01  | DRY AND MOIST PIECE CHEESEBURGER PET FOOD                                         | 62165451        |            |
| 485US01  | TACTILE NAVIGATION SYSTEMS AND METHODS                                            | 62188060        |            |
| 394US01  | SYSTEMS AND METHODS FOR DETERMINING MEASUREMENT DATA OF AN ITEM                   | 62197657        |            |
| 502US01  | ACTIVITY MONITORING SYSTEM AND METHOD                                             | 62158628        |            |
| 662US01  | APPARATUS AND METHOD FOR EXECUTING ON-LINE PURCHASES                              | 62199376        |            |
| 778US01  | PRODUCE WEIGH STATION AND METHOD OF USE                                           | 62233589        |            |
| 781US01  | SENSORY STIMULATION CONTROLS FOR RETAIL ENVIRONMENT                               | 62200808        |            |
| 795US01  | TRANSACTION SIGNALING DEVICES IN SHOPPING ENVIRONMENT                             | 62206374        |            |

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|----------|-----------------------------------------------------------------------|-----------------|------------|
| 835US01  | SYSTEM FOR AUTOMATIC SIGNATURE FOR RECEIPT VERIFICATION               | 62206398        |            |
| 525US01  | CUSTOMER MOVEMENT MONITORING SYSTEM AND METHOD                        | 62180231        |            |
| 770US01  | SYSTEM AND METHOD FOR TRACKING                                        | 62208862        |            |
| 872US01  | SYSTEM FOR REDUCING WAITING TIME                                      | 62206886        |            |
| 782US01  | NFC TO CUSTOMER PROFILE SYSTEMS AND METHODS                           | 62208214        |            |
| 725US01  | COMMUNICATION SYSTEM AND METHOD                                       | 62193850        |            |
| 844US01  | CUSTOMER LOYALTY PROGRAM ACROSS MULTIPLE SHOPPING CHANNELS            | 62241964        |            |
| 839US01  | SYSTEMS AND METHODS FOR DELIVERING GOODS TO CONSUMERS                 | 62244823        |            |
| 470US01  | SYSTEM AND METHOD FOR MAPPING WIRELESS NETWORK COVERAGE               | 62249531        |            |
| 858US01  | RETAIL SUBSCRIPTION IN INTERNET OF THINGS ENVIRONMENT                 | 62247878        |            |
| 1020US01 | PRESCRIPTION HOME DELIVERY                                            | 62253534        |            |
| 873US01  | SYSTEM AND METHOD FOR COLLECTING CUSTOMER FEEDBACK                    | 62255619        |            |
| 557US01  | DEVICE AND METHOD FOR DIRECTING EMPLOYEE MOVEMENT                     | 62259360        |            |
| 1025US01 | UNMANNED AERIAL DELIVERY TO SECURE LOCATION                           | 62260086        |            |
| 1059US01 | SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME          | 62270785        |            |
| 1092US01 | RETAIL STORE FIXTURE AND METHOD OF STERILIZING A RETAIL STORE FIXTURE | 62270932        |            |
| 1103US01 | SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME          | 62270813        |            |
| 1115US01 | SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME          | 62270827        |            |
| 1116US01 | MOBILE BAGGING STATION                                                | 62270958        |            |
| 1172US01 | BAGGING STATION SUPPORT FRAME AND METHOD OF FORMING THE SAME          | 62270881        |            |
| 902US01  | SHOPPING PARTY LOCATOR SYSTEMS AND METHODS                            | 62328802        |            |
| 958US01  | INSTANT RENTAL SERVICE RESERVATION SYSTEMS AND METHODS                | 62263873        |            |
| 939US01  | SYSTEMS AND METHODS FOR PRODUCT WARRANTY REGISTRATION AND TRACKING    | 62387541        |            |

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| Ref. No. | Title                                                                                           | Application No. | Patent No. |
|----------|-------------------------------------------------------------------------------------------------|-----------------|------------|
| 1013US01 | SMART SHOPPING CART AND METHOD OF USE                                                           | 62387543        |            |
| 1088US01 | SHOPPING CART POWER GENERATION                                                                  | 62287656        |            |
| 1042US01 | SHOPPING CART DISPLAY                                                                           | 62387542        |            |
| 689US01  | INTERACTIVE GAMING SYSTEMS AND METHODS                                                          | 62273596        |            |
| 928US01  | METHOD AND SYSTEM TO SUPPORT ORDER COLLECTION USING A GEO-FENCE                                 | 62262079        |            |
| 1266US01 | STORE CUSTOMER SHOPPING SYSTEMS AND METHODS                                                     | 62330442        |            |
| 1269US01 | STORE CUSTOMER SHOPPING SYSTEMS AND METHODS                                                     | 62330446        |            |
| 1271US01 | INTERACTIVE RETAIL SYSTEM                                                                       | 62317064        |            |
| 1272US01 | RETAIL STORE DIGITAL DISPLAY                                                                    | 62317064        |            |
| 1159US01 | SYSTEM AND METHOD FOR GENERATING SHIPPING OPTIONS                                               | 62311011        |            |
| 1192US01 | SELF-SERVICE VIRTUAL STORE SYSTEM                                                               | 62372490        |            |
| 1248US01 | SYSTEM AND METHOD FOR PAYING FOR GOODS AT A DOOR                                                | 62372500        |            |
| 1170US01 | BAGGING STATION FOR FILLING PAPER BAGS                                                          | 62288580        |            |
| 1154US01 | PORTABLE COMPUTING DEVICE HOLDER                                                                | 62302263        |            |
| 1179US01 | SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME                                    | 62298011        |            |
| 1219US01 | SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME                                    | 62298017        |            |
| 1177US01 | WASTE COLLECTION SYSTEM AND METHOD                                                              | 62295866        |            |
| 1212US01 | STORE ITEM RETURN PROCESS                                                                       | 62305107        |            |
| 1023US01 | PHYSICAL SHOPPING WITH PHYSICAL AND/OR VIRTUALIZED CUSTOMER ASSISTANCE                          | 62295591        |            |
| 1035US01 | MULTIPLE PRODUCT ATTRIBUTE VISUALIZATION                                                        | 62307682        |            |
| 1405US01 | SYSTEMS AND METHODS FOR DETECTING AND WARNING OF THE PRESENCE OR ABSENCE OF AUTOMOBILE OCCUPANT | 62307669        |            |
| 1440US01 | COOKING SYSTEM                                                                                  | 62315303        |            |
| 1249US01 | PREDICTIVE SHOPPING                                                                             | 62305790        |            |

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|----------|-------------------------------------------------------------------------------------------------------|-----------------|------------|
| 1101US01 | FRESH PERISHABLE STORE ITEM NOTIFICATION SYSTEMS AND METHODS                                          | 62305085        |            |
| 1105US01 | SYSTEMS AND METHODS FOR PURCHASING FRESH FOOD ITEMS ONLINE                                            | 62305099        |            |
| 797US01  | AUDIO/VISUAL RECORDING APPARATUS, AUDIO/VISUAL RECORDING AND PLAYBACK SYSTEM AND METHODS FOR THE SAME | 62273685        |            |
| 1169US01 | IMAGE IN-STOCK CHECKER                                                                                | 62305119        |            |
| 1408US01 | SMART PACKAGE                                                                                         | 62381235        |            |
| 1011US01 | CUSTOM KIOSK                                                                                          | 62310917        |            |
| 1138US01 | INVENTORY VOTING SYSTEM                                                                               | 62316737        |            |
| 1198US01 | PAYMENT REGISTER SYSTEM AND METHOD OF OPERATING A PLURALITY OF PAYMENT REGISTERS                      | 62316762        |            |
| 1152US01 | STORE ITEM DELIVERY SYSTEMS AND METHODS                                                               | 62316689        |            |
| 1172US01 | PRODUCE PRODUCT ORDER DELIVERY SYSTEM                                                                 | 62321966        |            |
| 1234US01 | LAYAWAY SYSTEM AND METHOD                                                                             | 62327695        |            |
| 1914US01 | BAGGING STATION BAGGING CLIP                                                                          | 62315222        |            |
| 1914US02 | BAGGING STATION BAGGING CLIP                                                                          | 62340642        |            |
| 1451US01 | BAGGING STATION SUPPORT FRAME AND METHOD OF FORMING THE SAME                                          | 62375691        |            |
| 1452US01 | SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME                                          | 62377135        |            |
| 1453US01 | SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME                                          | 62377143        |            |
| 1939US01 | CALL BUTTON BRACKET                                                                                   | 62321435        |            |
| 1939US02 | CALL BUTTON BRACKET                                                                                   | 62347119        |            |
| 1218US01 | WEARABLE SECURITY APPARATUS                                                                           | 62356795        |            |
| 1287US01 | SYSTEM AND METHOD FOR FRESH ONLINE EXPERIENCE                                                         | 62353610        |            |
| 1389US01 | SYSTEM AND METHOD FOR PURCHASING ADVERTISED ITEMS                                                     | 62353144        |            |
| 2124US01 | WHEELED CART FOR TRANSPORTING STORE ITEMS                                                             | 62329357        |            |
| 1544US01 | CUSTOMER MANAGEMENT SYSTEM                                                                            | 62408737        |            |

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| 1545US01 | VENDOR PAYMENT SHARING SYSTEM                              | 62408738        |            |
| 1546US01 | CUSTOMER INTERFACE SYSTEM                                  | 62408740        |            |
| 1134US01 | IN-STORE NAVIGATION SYSTEMS AND METHODS                    | 62370832        |            |
| 1245US01 | VEHICLE SERVICE KIOSK SYSTEM                               | 62369865        |            |
| 1416US01 | SHOPPING CART FOR VISION-IMPAIRED USERS                    | 62375577        |            |
| 1535US01 | AUTOMATED STORE RETURN PROCESS                             | 62373474        |            |
| 1532US01 | PRODUCE SELECTION SYSTEM FOR SINGLE ITEMS                  | 62377341        |            |
| 1536US01 | PRODUCE SELECTION SYSTEM FOR BULK ITEMS                    | 62377371        |            |
| 1541US01 | LAYAWAY SYSTEM                                             | 62420919        |            |
| 917US01  | LANDSCAPE DESIGN SYSTEMS AND METHODS                       | 62371420        |            |
| 860US01  | SOCIAL ENGINEERING THROUGH GAMIFICATION                    | 62371521        |            |
| 1503US01 | PAPER BAG RETAINING FIXTURE                                | 62385097        |            |
| 1504US01 | BAG RETAINING FIXTURE                                      | 62385108        |            |
| 1703US01 | PACKAGE AS KEY                                             | 62375628        |            |
| 1844US01 | COURIER SHOPPING SYSTEM                                    | 62408743        |            |
| 1040US01 | PROCESSING PAYMENT REFUNDS FOR INVALID PAYMENT INSTRUMENTS | 62404963        |            |
| 1651US01 | AUTOMOBILE INFORMATION BEACON                              | 62378475        |            |
| 2112US01 | COUPLING APPARATUS                                         | 62343952        |            |
| 2190US01 | WALL MOUNT FIXTURE                                         | 62343953        |            |
| 2191US01 | MOBILE COMPUTING DEVICE HOLDER                             | 62343954        |            |
| 1614US01 | MODULAR BAGGING STATIONS                                   | 62349933        |            |
| 2239US01 | SELF-CHECKOUT REGISTER CONFIGURATIONS                      | 62349940        |            |
| 1076US01 | PRODUCT PART PICTURE PICKER                                | 62383881        |            |
| 2108US01 | RETAIL STORE FIXTURE FOR A CHECKOUT STATION                | 62350986        |            |
| 2325US01 | CORNER MOUNT FIXTURE                                       | 62367754        |            |
| 2326US01 | MOBILE COMPUTING DEVICE HOLDER                             | 62367757        |            |

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| 2227US01 | SHOPPING CART BASKET                                                       | 62359435        |            |
| 2392US01 | APPAREL RACK                                                               | 62356747        |            |
| 2392US02 | APPAREL RACK                                                               | 62369870        |            |
| 965US01  | SENSING DEVICE FOR SHOPPING CART                                           | 62397445        |            |
| 1001US01 | SYSTEMS AND METHODS FOR CONTROLLING A DISPLAY OF CONTENT IN A RETAIL STORE | 62408158        |            |
| 1153US01 | RECIPE MANAGEMENT SYSTEM                                                   | 62404454        |            |
| 1351US01 | WARRANTY TRACKING SYSTEM                                                   | 62462626        |            |
| 1582US01 | RETAIL STORE SCANNING GAME AND PURCHASE SYSTEM                             | 62413599        |            |
| 1647US01 | COAT HANGER DEVICE AND KEY CHAIN                                           | 62400814        |            |
| 1661US01 | CAMERA GESTURE CLOCK IN                                                    | 62401449        |            |
| 1676US01 | RETAIL STORE CART                                                          | 62401429        |            |
| 1702US01 | SHELVING SYSTEM HAVING STOWABLE SHELVES                                    | 62409496        |            |
| 1707US01 | LANDING PAD RECEPTACLE FOR PACKAGE DELIVERY AND RECEIPT                    | 62403908        |            |
| 1711US01 | MICRO STORE LOCATION PROJECTOR                                             | 62401510        |            |
| 1712US01 | PROMOTING STORE ITEMS USING AUGMENTED REALITY GAMING APPLICATIONS          | 62411187        |            |
| 1899US01 | SYSTEMS AND METHODS FOR DIRECTING A USER TO A LOCATION OF INTEREST         | 62406578        |            |
| 1892US01 | SENSOR BASED REORDERING SYSTEM                                             | 62397571        |            |
| 2040US01 | AUTOMATED POINT OF SALE SYSTEM                                             | 62403931        |            |
| 2254US01 | PROCESSING PURCHASES FOR UNAVAILABLE MERCHANDISE                           | 62418347        |            |
| 2258US01 | SECURE PAYMENT PROCESSING FOR PRODUCT DISPLAYED ON A PUBLIC COMPUTER       | 62418359        |            |
| 2259US01 | AUTHENTICATING ONLINE TRANSACTION USING SEPARATE COMPUTING DEVICE          | 62417766        |            |
| 915US01  | AUTOMATIC CLUB MEMBERSHIP                                                  | 62401950        |            |
| 2440US01 | STICKER DISPENSER                                                          | 62366733        |            |

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| 2442US01 | BAG DISPENSER                                                                            | 62366877        |            |
| 1471US01 | SELF-RETURN                                                                              | 62403255        |            |
| 2320US01 | SMART CART FOR SELF-CHECKOUT OF RETAIL MERCHANDISE                                       | 62405307        |            |
| 2621US01 | INVENTORY PROCESSING CART AND METHOD OF USE THEREOF                                      | 62377284        |            |
| 2558US01 | SELF-CHECKOUT STATION AIR CIRCULATION                                                    | 62377305        |            |
| 2764US01 | ORDER FULFILLMENT CART HAVING NESTING CAPABILITY                                         | 62378995        |            |
| 2767US01 | RECEPTACLE AND COVER                                                                     | 62378844        |            |
| 2455US01 | MULTI-COMPARTMENT MODULAR COOLER                                                         | 62404284        |            |
| 2903US01 | SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME                             | 62402475        |            |
| 2008US01 | ELECTRONIC COMMUNICATIONS IN CONNECTION WITH A PACKAGE DELIVERY                          | 62445979        |            |
| 2192US01 | SYSTEMS AND METHODS FOR DETERMINING SHELF OCCUPANCY                                      | 62432867        |            |
| 2463US01 | OBTAINING A MEDICAL RECORD STORED ON A BLOCKCHAIN FROM A WEARABLE DEVICE                 | 62433956        |            |
| 2465US01 | CONTROLLING ACCESS TO A LOCKED SPACE USING CRYPTOGRAPHIC KEYS STORED ON A BLOCKCHAIN     | 62433962        |            |
| 2466US01 | MANAGING A DEMAND ON AN ELECTRICAL GRID USING A PUBLICLY DISTRIBUTED TRANSACTIONS LEDGER | 62433968        |            |
| 2514US01 | VERIFYING AUTHENTICITY OF COMPUTER READABLE INFORMATION USING THE BLOCKCHAIN             | 62438728        |            |
| 1704US01 | HANDS-FREE SHOPPING APPLICATIONS INCLUDING SCANNING FUNCTIONS                            | 62433975        |            |
| 1713US01 | MODULAR LABEL TRACK SYSTEM                                                               | 62437409        |            |
| 1715US01 | DYNAMIC POWER SENSING SYSTEM                                                             | 62438765        |            |
| 1716US01 | PRODUCT TRACKING SYSTEM                                                                  | 62439571        |            |
| 1717US01 | STOCKING TOOL                                                                            | 62433979        |            |
| 1718US01 | ZONING TOOL                                                                              | 62433984        |            |
| 1751US01 | PRODUCT REPLACEMENT SYSTEM                                                               | 62427238        |            |
| 1831US01 | SELF-LOCKING CLIP MECHANISM                                                              | 62440713        |            |

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| 1922US01 | BAGGING STATION BAGGING CLIP                                                       | 62435222        |            |
| 1997US01 | BAGGING CLIP TOOL AND METHOD OF FORMING THE SAME                                   | 62435229        |            |
| 1951US01 | STATIC ELECTRICITY SENSING APPLICATIONS IN RETAIL ENVIRONMENT                      | 62457519        |            |
| 1427US01 | DAIRY PRODUCT SPOILAGE DETECTION                                                   | 62440854        |            |
| 2031US01 | TASK MANAGEMENT IN RETAIL ENVIRONMENT                                              | 62456420        |            |
| 3123US01 | FRESH PRODUCTION PLANNER                                                           | 62430095        |            |
| 1920US01 | SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME                       | 62448481        |            |
| 2115US01 | CHECKOUT STATION BUMPER                                                            | 62448484        |            |
| 2170US01 | CHECKOUT STATION WITH HANGER HOOK                                                  | 62456403        |            |
| 2062US01 | PANEL POWERED PRODUCE DISPLAY TABLE                                                | 62458817        |            |
| 2063US01 | SELF-POWERED AIR FLOW SYSTEM FOR RETAIL STORE DISPLAY                              | 62458822        |            |
| 2169US01 | HANDLE CLIP MECHANISM                                                              | 62457526        |            |
| 1877US01 | PROCESSING SELF-CHECKOUT TRANSACTION USING PORTABLE DEVICE LINKED TO MOBILE DEVICE | 62462652        |            |
| 2548US01 | RETRACTABLE BAGGING STATION                                                        | 62426633        |            |
| 2457US01 | CLOUD SECURITY STACK                                                               | 62450814        |            |
| 3075US01 | AUTOMATED PAINT SELECTING AND MIXING MACHINE                                       | 62450205        |            |
| 1100US01 | AUTHENTICATED PURCHASE OF RESTRICTED ITEMS                                         | 62289746        |            |
| 3284US01 | PORTABLE HAMMOCK STYLE CHAIR                                                       | 62449468        |            |
| 3043US01 | NURSING PILLOW AND METHODS FOR EFFICIENT DISPLAY OF NURSING PILLOWS                | 62464121        |            |