

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT6780892

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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.                               | 03/21/2018            |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                                     |                       |
| <b>Name:</b>                                                                                                                                                                                    | WALMART APOLLO, LLC                                 |                       |
| <b>Street Address:</b>                                                                                                                                                                          | 702 SW 8TH ST                                       |                       |
| <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>                                       |                       |
| <b>Application Number:</b>                                                                                                                                                                      | 17341247                                            |                       |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                                     |                       |
| <b>Fax Number:</b>                                                                                                                                                                              |                                                     |                       |
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| <b>Phone:</b>                                                                                                                                                                                   | 858-552-1311                                        |                       |
| <b>Email:</b>                                                                                                                                                                                   | akudirka@fitcheven.com, wmt.documents@fitcheven.com |                       |
| <b>Correspondent Name:</b>                                                                                                                                                                      | KAREN J. WANG                                       |                       |
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| <b>Address Line 2:</b>                                                                                                                                                                          | STE 2100                                            |                       |
| <b>Address Line 4:</b>                                                                                                                                                                          | CHICAGO, ILLINOIS 60603                             |                       |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | KAREN J. WANG                                       |                       |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /karen j. wang/                                     |                       |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 06/24/2021                                          |                       |
| <b>Total Attachments: 34</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 Benton )

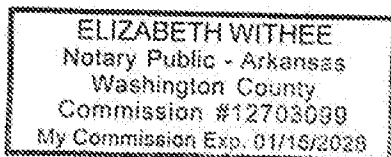
On this, the 21<sup>st</sup> day of March, 2018, before me, a notary public, the undersigned officer, personally appeared Gordon Y. Allison, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes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

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

[Signature]

Notary Public

My Commission Expires: 1/15/2028



**PATENT**  
**REEL: 056676 FRAME: 0429**

# SCHEDULE I

## Assigned Patents and Applications

| Ref. No. | Title                                                                                                                   | Application No. | Patent No. |
|----------|-------------------------------------------------------------------------------------------------------------------------|-----------------|------------|
| 003US01  | METHODS AND APPARATUS FOR IMPROVED REGISTER CHECKOUT                                                                    | 09/745758       | 6491218    |
| 004US01  | FREEZER ARRAY                                                                                                           | 29/143039       | D471214    |
| 007US01  | METHODS AND APPARATUS FOR PROVIDING A BANK OF FREEZERS WITH ENHANCED VIEWING CHARACTERISTICS                            | 60/296343       |            |
| 005US01  | METHODS AND APPARATUS FOR DATABASE SPACE CALCULATION AND ERROR DETECTION                                                | 09/997133       | 7028041    |
| 006US01  | SYSTEMS AND METHODS FOR PRE-SCANNING MERCHANDISE IN CUSTOMER'S SHOPPING CART WHILE CUSTOMER IS WAITING IN CHECKOUT LINE | 10/097952       | 6619546    |
| 007US02  | METHODS AND APPARATUS FOR PROVIDING A BANK OF FREEZERS WITH ENHANCED VIEWING CHARACTERISTICS                            | 10/164458       | 6715308    |
| 003US02  | METHODS AND APPARATUS FOR IMPROVED REGISTER CHECKOUT                                                                    | 10/282381       | 6793043    |
| 006US02  | SYSTEMS AND METHODS FOR PRE-SCANNING MERCHANDISE IN CUSTOMER'S SHOPPING CART WHILE CUSTOMER IS WAITING IN CHECKOUT LINE | 10/641421       | 7575161    |
| 009US01  | PLASTIC BOXES AND METHODS FOR MAKING SAME                                                                               | 10/744453       | 7222745    |
| 010US01  | PLASTIC BOX                                                                                                             | 29/197199       | D503042    |
| 012US01  | CONVERTIBLE PANTS AND METHODS FOR MAKING SAME                                                                           | 10/845871       | 6978484    |
| 013US01  | DISPLAY UNIT FOR TRAILER HITCHES AND TRAILER HITCH ACCESSORIES                                                          | 10/869156       | 7137516    |
| 014US01  | CART FOR STOCKING INVENTORY AND METHODS FOR MAKING SAME                                                                 | 10/874655       | 7213816    |
| 003US03  | METHODS AND APPARATUS FOR IMPROVED REGISTER CHECKOUT                                                                    | 10/937569       |            |
| 017US01  | RETAIL COST MODEL ENCRYPTION                                                                                            | 60/651454       |            |
| 016US01  | SYSTEM AND METHODS FOR FACILITATING A LINEAR GRID DATABASE WITH DATA ORGANIZATION BY DIMENSION                          | 11/100073       | 7672930    |

| Ref. No. | Title                                                                                                                          | Application No. | Patent No. |
|----------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|------------|
| 017US02  | SYSTEMS AND METHODS FOR ENCRYPTING DATA UTILIZING ONE-TIME PAD KEY                                                             | 11/190612       |            |
| 018US01  | PROCESS FOR CONTROL OF RESTRICTED PRODUCT SALES IN ACCORDANCE WITH LEGAL RESTRICTIONS AND EXPEDITED CREATION OF A CUSTOMER LOG | 11/164631       |            |
| 019US01  | METHOD FOR RECEIVING CREDIT CARD APPLICATIONS AT A FUEL DISPENSER                                                              | 11/306304       | 7364073    |
| 021US01  | ADJUSTABLE LIGHTING FOR DISPLAYING PRODUCTS                                                                                    | 11/457075       | 8248214    |
| 023US01  | METHOD FOR ON SITE CUSTOM BUILD OF YOUR OWN COMPUTER                                                                           | 11/530819       |            |
| 014US02  | CART FOR STOCKING INVENTORY AND METHODS FOR MAKING SAME                                                                        | 11/690947       | 7320472    |
| 019US02  | METHOD FOR RECEIVING CREDIT CARD APPLICATIONS AT A FUEL DISPENSER                                                              | 12/111764       | 8096469    |
| 037US01  | DATABASE AUTO RESTART FACILITY (ARF) SYSTEMS AND METHODS                                                                       | 61/090534       |            |
| 038US01  | SYSTEM AND METHOD OF IDENTIFYING THE EXISTENCE OF MEMORY STORED IN AN RFID TAG DURING AN INITIAL INVENTORY OF THE TAG          | 12/348889       |            |
| 047US01  | LIVE DEVICE SEIZURE KIT                                                                                                        | 29/340166       | D627165    |
| 046US01  | LIVE DEVICE SEIZURE KIT                                                                                                        | 61/225457       |            |
| 037US02  | AUTOMATICALLY RESTARTING A FIRST CHILD PROCESS BASED ON PRESENCE OF SQL CODE IN A LIST                                         | 12/544784       | 9021485    |
| 049US01  | SYSTEM AND METHOD FOR COMMUNICATING INFORMATION TO A CUSTOMER AT A POINT-OF-SALE VIA A WIRELESS LINK WITHIN A RETAIL STORE     | 12/613950       |            |
| 050US01  | WILD BIRD CATCH AND RELEASE DEVICE AND METHOD OF CATCHING AND RELEASING WILD BIRDS                                             | 61/264398       |            |
| 051US01  | INTERACTIVE CUSTOMER SHOPPING CART                                                                                             | 61/287065       |            |
| 016US02  | SYSTEM AND METHODS FOR FACILITATING A LINEAR GRID DATABASE WITH DATA ORGANIZATION BY DIMENSION                                 | 12/643545       | 8311998    |
| 052US01  | SYSTEM AND METHOD FOR TRANSACTION PAYMENTS USING A MOBILE DEVICE                                                               | 61/312837       |            |
| 046US02  | LIVE DEVICE SEIZURE KIT                                                                                                        | 12/835977       |            |

| Ref. No. | Title                                                                                                     | Application No. | Patent No. |
|----------|-----------------------------------------------------------------------------------------------------------|-----------------|------------|
| 057US01  | METHOD FOR SELF-CHECKOUT WITH A MOBILE DEVICE                                                             | 61/392908       |            |
| 057US02  | METHOD FOR SELF-CHECKOUT WITH A MOBILE DEVICE                                                             | 12/947545       |            |
| 050US02  | WILD BIRD CATCH AND RELEASE DEVICE AND METHOD OF CATCHING AND RELEASING WILD BIRDS                        | 12/954215       | 8733291    |
| 051US02  | INTERACTIVE CUSTOMER SHOPPING CART                                                                        | 12/968262       | 8474711    |
| 052US02  | SYSTEM AND METHOD FOR TRANSACTION PAYMENTS USING A MOBILE DEVICE                                          | 13/046525       | 9741028    |
| 075US01  | SYSTEMS, DEVICES AND METHODS FOR INTEGRATED DISPLAY AND MANAGEMENT OF TRANSPORTATION RESOURCES            | 13/287970       | 9460410    |
| 076US01  | SYSTEMS AND METHODS FOR INTERACTIVE SHOPPING USING A MOBILE COMPUTING DEVICE                              | 13/523932       |            |
| 082US01  | SOFTWARE APPLICATION ABSTRACTION SYSTEM AND METHOD                                                        | 13/524043       |            |
| 074US01  | SYSTEMS AND METHODS FOR SHOPPING IN AN ELECTRONIC COMMERCE ENVIRONMENT WITH SOCIAL NETWORKING CONNECTIONS | 13/534733       |            |
| 103US01  | COMESTIBLE PRODUCT CARRIER AND/OR HANDLE AND ASSOCIATED METHODS                                           | 61/692849       |            |
| 512US01  | ASSESSING CONSUMER PURCHASE BEHAVIOR IN MAKING A FINANCIAL CONTRACT AUTHORIZATION DECISION                | 13/610754       | 8606696    |
| 065US01  | UNIVERSAL SUBSTANTIATION SYSTEM                                                                           | 13/632491       |            |
| 103US02  | COMESTIBLE PRODUCT CARRIER AND/OR HANDLE AND ASSOCIATED METHODS                                           | 13/667702       | 9380914    |
| 140US01  | DYNAMIC TASK MANAGEMENT                                                                                   | 13/677079       |            |
| 092US01  | SECURITY BYPASS ENVIRONMENT FOR CIRCUMVENTING A SECURITY APPLICATION IN A COMPUTING ENVIRONMENT           | 13/683864       | 8914857    |
| 138US01  | SYSTEMS AND METHODS FOR RECOMMENDING PRODUCTS BASED ON A SHOPPING LIST AND A SHOPPING BUDGET              | 13/714878       |            |
| 159US01  | SYSTEM AND METHOD FOR MANAGING PREPAID CARDS                                                              | 13/744775       |            |
| 175US01  | SYSTEM AND METHOD FOR MANAGING PREPAID CARDS                                                              | 13/744768       |            |
| 171US01  | SYSTEM AND METHOD FOR ASSIGNING EMPLOYEES TO CASH REGISTERS                                               | 13/748991       |            |

| Ref. No. | Title                                                                                  | Application No. | Patent No. |
|----------|----------------------------------------------------------------------------------------|-----------------|------------|
| 174US01  | RETAIL GIFT CARD SYSTEM WITH INTEGRATED ACCOUNT AND SALES RECEIPT TRACKING             | 13/751384       |            |
| 146US01  | METHODS AND SYSTEMS FOR AUTOMATED COUPON PROCESSING                                    | 13/755844       |            |
| 142US01  | SYSTEMS AND METHODS FOR NAVIGATING AND RESERVING BUILDING SPACES                       | 13/771919       |            |
| 136US01  | SUPPLIER ANALYSIS AND VERIFICATION SYSTEM AND METHOD                                   | 13/772926       |            |
| 188US01  | E-COMMERCE SYSTEM WITH PERSONAL PRICE POINTS                                           | 13/777014       |            |
| 143US01  | ENTERPRISE RESOURCE SEARCH AND RESERVATION SYSTEM                                      | 13/793633       | 9798983    |
| 137US01  | SYSTEM AND METHOD FOR STREAMING EVENTS IN A TRANSACTION-BASED SYSTEM                   | 61/779330       |            |
| 164US01  | ELECTRONIC PRODUCT INFORMATION RETRIEVAL ENVIRONMENT                                   | 13/827628       |            |
| 168US01  | SYSTEM AND METHOD FOR ORDER PROCESSING USING CUSTOMER LOCATION INFORMATION             | 13/804905       | 9015069    |
| 219US01  | WIDE ANGLE PLANAR ANTENNA ASSEMBLY                                                     | 61/799322       |            |
| 124US01  | SYSTEMS AND METHODS FOR SAVING A REMAINDER OF CASH TRANSACTIONS                        | 61/788340       |            |
| 145US01  | ALARM PROCESSING SYSTEMS AND METHODS                                                   | 61/798234       |            |
| 170US01  | OVERNIGHT PRODUCTIVITY DASHBOARD                                                       | 61/798013       |            |
| 236US01  | APPARATUS AND METHOD ENABLEMENT OF CONSUMER INFORMATION CONTROL SYSTEMS ON A MAINFRAME | 61/799136       |            |
| 186US01  | MERCHANDISE EVENT MONITORING VIA WIRELESS TRACKING                                     | 61/788846       |            |
| 185US01  | RFID READER LOCATION SELF-DISCOVERY                                                    | 61/788696       |            |
| 181US01  | ORPHANED PRODUCT STRAY ANALYSIS USING RFID                                             | 61/790009       |            |
| 181US01  | AUTOMATIC SELF-LEARNING RFID READER CONFIGURATOR                                       | 61/789699       |            |
| 199US01  | DISCREPANCY ANALYSIS OF RFID READS TO DETERMINE LOCATIONS                              | 61/789710       |            |
| 513US01  | REAL TIME ORDER AND ACTIVATION PROCESSING SYSTEM                                       | 13/836598       |            |
| 201US01  | FLEXIBLE STORE FULFILLMENT                                                             | 61/798424       |            |
| 186US02  | MERCHANDISE EVENT MONITORING VIA WIRELESS TRACKING                                     | 13/862354       | 9443218    |
| 185US02  | RFID READER LOCATION SELF-DISCOVERY                                                    | 13/862350       | 9092679    |

| Ref. No. | Title                                                                                                                 | Application No. | Patent No. |
|----------|-----------------------------------------------------------------------------------------------------------------------|-----------------|------------|
| 182US02  | ORPHANED PRODUCT STRAY ANALYSIS USING RFID                                                                            | 13/861958       | 9098824    |
| 181US02  | AUTOMATIC SELF-LEARNING RFID READER CONFIGURATOR                                                                      | 13/862056       | 9460326    |
| 199US02  | DISCREPANCY ANALYSIS OF RFID READS TO DETERMINE LOCATIONS                                                             | 13/862110       | 9165277    |
| 139US01  | SYSTEM AND METHOD FOR FACILITATING A PURCHASE OF SELECTED PRODUCTS OR SERVICES                                        | 13/862019       |            |
| 137US02  | SYSTEM AND METHOD FOR STREAMING EVENTS IN A TRANSACTION-BASED SYSTEM                                                  | 13/886781       | 9904718    |
| 281US01  | SYSTEMS AND METHODS FOR RECOMMENDING PRODUCTS                                                                         | 61/827283       |            |
| 281US02  | SYSTEMS AND METHODS FOR RECOMMENDING PRODUCTS                                                                         | 13/903761       |            |
| 219US02  | WIDE ANGLE PLANAR ANTENNA ASSEMBLY                                                                                    | 13/904962       | 9515389    |
| 202US01  | METHOD FOR GENERATING A DISCRETE FORECASTED STAFF REPORT                                                              | 13/915801       |            |
| 170US02  | OVERNIGHT PRODUCTIVITY DASHBOARD                                                                                      | 13/918445       |            |
| 038US02  | SYSTEM AND METHOD OF IDENTIFYING THE EXISTENCE OF MEMORY STORED IN AN RFID TAG DURING AN INITIAL INVENTORY OF THE TAG | 13/920888       |            |
| 245US01  | CONSOLIDATED RETAILER-OPERATED ELECTRONIC PAYMENT SYSTEM                                                              | 13/953849       |            |
| 218US01  | DYNAMIC AWARDS AND RESTRICTIVE TENDER SYSTEM AND METHOD                                                               | 13/957964       |            |
| 201US02  | FLEXIBLE STORE FULFILLMENT                                                                                            | 13/969989       | 9779375    |
| 145US02  | ALARM PROCESSING SYSTEMS AND METHODS                                                                                  | 14/020231       | 9092958    |
| 305US01  | DATA ANALYTICS ANIMATION SYSTEM AND METHOD                                                                            | 14/061437       |            |
| 282US01  | SYSTEM AND METHOD FOR PROVIDING SALE ITEMS                                                                            | 14/063563       |            |
| 299US01  | SYSTEM AND METHOD FOR IDENTIFYING INELASTIC PRODUCTS                                                                  | 14/063090       |            |
| 249US01  | SYSTEM AND METHOD FOR DISPENSING AND PURCHASING FUEL                                                                  | 14/066448       | 9715682    |
| 238US01  | SYSTEM AND METHOD FOR INDICATING QUEUE CHARACTERISTICS OF ELECTRONIC TERMINALS                                        | 14/072097       |            |
| 273US01  | SYSTEMS AND METHODS OF REMOTELY MONITORING UTILIZATION OF GEOGRAPHICALLY DISTRIBUTED POINT OF SALE TERMINALS          | 14/071914       |            |
| 215US01  | SYSTEM AND METHOD FOR LOADING PRODUCTS INTO A VEHICLE                                                                 | 61/910881       |            |

| Ref. No. | Title                                                                          | Application No. | Patent No. |
|----------|--------------------------------------------------------------------------------|-----------------|------------|
| 307US02  | SYSTEMS AND METHODS FOR SALES EXECUTION ENVIRONMENT                            | 61/919042       |            |
| 308US01  | SYSTEMS AND METHODS FOR SALES EXECUTION ENVIRONMENT                            | 61/919036       |            |
| 309US01  | SYSTEMS AND METHODS FOR SALES EXECUTION ENVIRONMENT                            | 61/919034       |            |
| 361US01  | SYSTEMS AND METHODS FOR SALES EXECUTION ENVIRONMENT                            | 61/919030       |            |
| 323US01  | SYSTEM AND METHOD FOR INCREASING COUNTING ACCURACY                             | 14/136540       |            |
| 264US02  | MODULAR WALL ASSEMBLY FOR A COSMETIC FIXTURE SYSTEM                            | 61/920388       |            |
| 264US01  | MODULAR SHELF ASSEMBLY FOR A COSMETIC FIXTURE SYSTEM                           | 61/920426       |            |
| 332US01  | DATA PERSPECTIVE ANALYSIS SYSTEM AND METHOD                                    | 61/924959       |            |
| 302US01  | SYSTEM AND METHOD FOR DISPENSING AND PURCHASING MEDICAL PRESCRIPTIONS          | 61/924815       |            |
| 268US01  | AUTOMATIC TRANSFER SWITCH MAINTENANCE BYPASS CABINET                           | 61/946219       |            |
| 124US02  | SYSTEMS AND METHODS FOR SAVING A REMAINDER OF CASH TRANSACTIONS                | 14/208797       |            |
| 366US01  | SYSTEM AND METHOD FOR STORING AND PROCESSING DATABASE REQUESTS                 | 61/981318       |            |
| 325US01  | PREDICTIVE PATTERN PROFILE PROCESS                                             | 61/991143       |            |
| 348US01  | SYSTEMS AND METHODS FOR CASHIER SCHEDULING                                     | 61/992627       |            |
| 350US01  | IDENTIFY CHECKOUT BY CASHIER CAPABILITIES                                      | 61/992694       |            |
| 462US01  | HYBRID DIGITAL SCRUM BOARD                                                     | 62/006587       |            |
| 337US01  | SYSTEM AND METHOD FOR IDENTIFYING ELASTIC PRODUCTS                             | 62/028568       |            |
| 356US01  | SYSTEM AND METHOD FOR APPLYING THIRD PARTY DONATIONS TO A DONEE MERCHANT ORDER | 62/030396       |            |
| 347US01  | SYSTEMS AND METHODS FOR ROLL-UP PAYMENTS                                       | 62/030878       |            |
| 353US01  | SYSTEMS AND METHODS FOR PROMOTIONAL FORECASTING                                | 62/030906       |            |
| 393US01  | SYSTEM AND METHOD FOR PRICE POSITION SENSITIVITY ANALYSIS                      | 62/030886       |            |
| 392US01  | SYSTEMS AND METHODS FOR MANAGEMENT OF DIGITALLY EMULATED SHADOW RESOURCES      | 62/030710       |            |
| 371US01  | INTEGRATED ONLINE AND IN-STORE SHOPPING EXPERIENCE                             | 62/031401       |            |

| Ref. No. | Title                                                                                           | Application No. | Patent No. |
|----------|-------------------------------------------------------------------------------------------------|-----------------|------------|
| 377US01  | SYSTEM AND METHOD FOR COORDINATED SHOPPING AMONG MEMBERS OF A GROUP                             | 62/031328       |            |
| 379US01  | ONLINE CART AND SHOPPING LIST SHARING                                                           | 62/031430       |            |
| 466US01  | SYSTEMS AND METHODS FOR PROMOTIONAL PROGRAMS                                                    | 62/042635       |            |
| 496US01  | SYSTEMS, DEVICES, AND METHODS FOR DETERMINING AN OPERATIONAL HEALTH SCORE                       | 62/074898       |            |
| 092US02  | SECURITY BYPASS ENVIRONMENT FOR CIRCUMVENTING A SECURITY APPLICATION IN A COMPUTING ENVIRONMENT | 14/570686       | 9600660    |
| 264US04  | MODULAR WALL ASSEMBLY FOR A COSMETIC FIXTURE SYSTEM                                             | 14/581056       | 9782018    |
| 264US03  | MODULAR SHELF ASSEMBLY FOR A COSMETIC FIXTURE SYSTEM                                            | 14/580630       |            |
| 508US01  | SYSTEMS, DEVICES, AND METHODS FOR INCIDENT MANAGEMENT INTERACTIONS                              | 62/098680       |            |
| 332US02  | DATA PERSPECTIVE ANALYSIS SYSTEM AND METHOD                                                     | 14/591560       |            |
| 389US01  | METHODS AND SYSTEMS FOR AUDITING OVERSTOCK IN A RETAIL ENVIRONMENT                              | 62/110976       |            |
| 315US01  | CODE USAGE MAP                                                                                  | 62/121795       |            |
| 492US01  | SYSTEMS, DEVICES, AND METHODS FOR SOFTWARE DISCOVERY USING APPLICATION ID TAGS                  | 62/126936       |            |
| 569US01  | SYSTEMS AND METHODS FOR SOFTWARE SCANNING TOOL                                                  | 62/134232       |            |
| 441US01  | SYSTEMS AND METHODS FOR REPLENISHMENT IN A FREIGHT TETHERING ENVIRONMENT                        | 62/134927       |            |
| 515US01  | MULTIPLE DISPLAY ENVIRONMENT FOR SOFTWARE DEVELOPMENT PROJECTS                                  | 62/138717       |            |
| 595US01  | SYSTEMS AND METHODS FOR A MULTI-DISPLAY COLLABORATION ENVIRONMENT                               | 62/138699       |            |
| 637US01  | SYSTEMS AND METHODS FOR MODELING COST OF A PRODUCT                                              | 62/138790       |            |
| 457US01  | SYSTEMS, DEVICES, AND METHODS FOR PREDICTING PRODUCT PERFORMANCE IN A RETAIL DISPLAY AREA       | 62/140244       |            |
| 366US02  | SYSTEM AND METHOD FOR STORING AND PROCESSING DATABASE REQUESTS                                  | 14/689493       |            |
| 674US01  | MOBILE ANALYTICS COLLABORATION ALERTS                                                           | 62/152349       |            |

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| 602US01  | SYSTEMS, DEVICES, AND METHODS FOR PREAUTHORIZED PAYMENT                                                                                              | 62/155106       |            |
| 325US02  | PREDICTIVE PATTERN PROFILE PROCESS                                                                                                                   | 14/707624       |            |
| 350US02  | SYSTEMS AND METHODS FOR IDENTIFYING TRANSACTION CAPABILITIES OF CASHIER                                                                              | 14/711161       | 9779395    |
| 561US01  | SYSTEMS, DEVICES, AND METHODS FOR CONFIGURING A GRAPHICAL USER INTERFACE TO DISPLAY PERFORMANCE DATA                                                 | 62/160857       |            |
| 563US01  | SYSTEMS, DEVICES, AND METHODS FOR CONTROLLING AN ELECTRONIC DISPLAY DEVICE TO RENDER A GRAPHICAL USER INTERFACE WITH SELECTIVELY OBFUSCATED PORTIONS | 62/162315       |            |
| 522US01  | SYSTEMS AND METHODS FOR DISPLAYING CHECKOUT LANE INFORMATION                                                                                         | 62/163669       |            |
| 475US01  | QUEUE MEASUREMENT SYSTEM AND METHOD                                                                                                                  | 62/163584       |            |
| 462US02  | HYBRID DIGITAL SCRUM BOARD                                                                                                                           | 14/728706       |            |
| 524US01  | SYSTEMS AND METHODS FOR CONTROLLING CHECKOUT BELT SPEED                                                                                              | 62/172381       |            |
| 506US01  | SYSTEMS AND METHODS FOR DEPOSITING CASH INTO AN ACCOUNT USING A POINT-OF-SALE SYSTEM                                                                 | 62/183011       |            |
| 507US01  | SYSTEMS AND METHODS FOR DEPOSITING A CHECK INTO AN ACCOUNT USING A POINT-OF-SALE SYSTEM                                                              | 62/183017       |            |
| 185US03  | RFID READER LOCATION SELF-DISCOVERY                                                                                                                  | 14/807351       | 9563793    |
| 169US01  | SYSTEM AND METHOD FOR ASSIGNING EMPLOYEES TO COVERAGE AND/OR TASKS BASED ON SCHEDULE AND PREFERENCES                                                 | 14/763111       |            |
| 392US02  | SYSTEMS AND METHODS FOR MANAGEMENT OF DIGITALLY EMULATED SHADOW RESOURCES                                                                            | 14/808585       |            |
| 356US02  | SYSTEM AND METHOD OF APPLYING THIRD PARTY DONATIONS TO A DONEE MERCHANT ORDER                                                                        | 14/810697       |            |
| 377US02  | CONSOLIDATING AND TRANSFORMING OBJECT-DESCRIPTIVE INPUT DATA TO DISTRIBUTED RENDERED LOCATION DATA                                                   | 14/813225       | 9797731    |
| 353US02  | SYSTEMS AND METHODS FOR PROMOTIONAL FORECASTING                                                                                                      | 14/813999       |            |
| 371US02  | INTEGRATED ONLINE AND IN-STORE SHOPPING EXPERIENCE                                                                                                   | 14/814737       |            |

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| 379US02  | ONLINE CART AND SHOPPING LIST SHARING                                                           | 14/815164       |            |
| 660US01  | SYSTEMS, DEVICES, AND METHODS FOR DETECTING FIREARM STRAW PURCHASES                             | 62/199626       |            |
| 723US01  | SYSTEMS, DEVICES, AND METHODS FOR GENERATING REDEEMABLE ELECTRONIC FUEL CODES                   | 62/199692       |            |
| 676US01  | SYSTEMS AND METHODS FOR WORKFORCE RECOMMENDATION TOOL                                           | 62/200477       |            |
| 752US01  | BAG DISPENSER                                                                                   | 62/212314       |            |
| 236US02  | APPARATUS AND METHOD ENABLEMENT OF CUSTOMER INFORMATION CONTROL SYSTEMS ON A MAINFRAME COMPUTER | 14/774514       |            |
| 584US01  | MODULARIZABLE REGISTER                                                                          | 62/217418       |            |
| 758US01  | MAINTENANCE OF DISTRIBUTED COMPUTING SYSTEMS                                                    | 62/217437       |            |
| 170US04  | OVERNIGHT PRODUCTIVITY DASHBOARD                                                                | 14/776211       |            |
| 794US01  | ADJUSTABLE INTERACTIVE VOICE RESPONSE SYSTEM                                                    | 62/221419       |            |
| 771US01  | ADJUSTABLE DUAL-TONE MULTI-FREQUENCY PHONE SYSTEM                                               | 62/221416       |            |
| 792US01  | SYSTEMS AND METHODS OF OBJECT IDENTIFICATION AND DATABASE CREATION                              | 62/233738       |            |
| 801US01  | LOCATION BASED REGISTER RULES                                                                   | 62/233653       |            |
| 787US01  | EXPRESS RECYCLING SACK                                                                          | 62/236510       |            |
| 935US01  | AUGMENTED REFRIGERATED DISPLAY UNIT                                                             | 62/236505       |            |
| 793US01  | DATA SYNTHESIS USING NEAR FIELD COMMUNICATIONS                                                  | 62/240309       |            |
| 390US01  | MACHINE LEARNING SYSTEM                                                                         | 62/249667       |            |
| 496US02  | SYSTEMS, DEVICES, AND METHODS FOR DETERMINING AN OPERATIONAL HEALTH SCORE                       | 14/931377       |            |
| 855US01  | SYSTEMS AND METHODS FOR CORRECTION OF GEOGRAPHIC INCONSISTENCY IN ITEM PROPERTIES               | 62/250746       |            |
| 802US01  | DISTRIBUTED COMPUTING SYSTEM                                                                    | 62/255126       |            |
| 837US01  | MERCHANDISE FIXTURE                                                                             | 62/257408       |            |
| 1191US01 | SYSTEMS AND METHODS FOR FLEXIBLY SECURING CARD DATA                                             | 62/257430       |            |
| 802US02  | DISTRIBUTED COMPUTING SYSTEM                                                                    | 62/258179       |            |
| 613US01  | SYSTEMS, DEVICES, AND METHODS FOR GENERATING AND RENDERING SNOW REMOVAL PROCESS DATA            | 14/956136       |            |

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| 678US01  | SYSTEMS, DEVICES, AND METHODS FOR GENERATING AND RENDERING PROCUREMENT AID DATA VIA AN ELECTRONIC DISPLAY DEVICE                                                | 14/958859       |            |
| 399US01  | SYSTEMS AND METHODS FOR DYNAMICALLY SETTING VALUES IN A COMPUTING SYSTEM BASED ON SCANNING OF MACHINE-READABLE REPRESENTATIONS ASSOCIATED WITH PHYSICAL OBJECTS | 14/961363       |            |
| 308US02  | SYSTEMS, DEVICES, AND METHODS FOR INCIDENT MANAGEMENT INTERACTIONS                                                                                              | 14/974714       |            |
| 1009US01 | SYSTEMS, DEVICES, AND METHODS FOR AUTOMATICALLY CONTROLLING AUTOMOTIVE FUEL AND SERVICE STATIONS                                                                | 62/269891       |            |
| 1010US01 | SYSTEMS AND METHODS FOR RESOLVING DATA DISCREPANCY                                                                                                              | 62/269771       |            |
| 846US01  | TWO-WAY MERCHANDISE FIXTURE                                                                                                                                     | 62/270237       |            |
| 933US01  | POSITION TRACKING SYSTEM                                                                                                                                        | 62/271161       |            |
| 1048US01 | DATA BREACH DETECTION SYSTEM                                                                                                                                    | 62/270963       |            |
| 449US01  | SYSTEMS AND METHODS FOR DATA AUTHENTICATION VIA A STATELESS EDGE APPLIANCE                                                                                      | 62/273720       |            |
| 565US01  | HIGH VELOCITY CHECKOUT TERMINAL                                                                                                                                 | 62/281498       |            |
| 1032US01 | CLIP FOR SECURING ELONGATED LABEL TRACK AND ASSOCIATED SYSTEMS AND METHODS                                                                                      | 62/286076       |            |
| 389US02  | METHODS AND SYSTEMS FOR AUDITING OVERSTOCK IN A RETAIL ENVIRONMENT                                                                                              | 15/012224       |            |
| 1073US01 | SHOPPING CART COMMUNICATION SYSTEM                                                                                                                              | 62/289605       |            |
| 1064US01 | SELF-DEPOSIT APPARATUS                                                                                                                                          | 62/290177       |            |
| 1071US01 | SHOPPING CART AND ASSOCIATED SYSTEMS AND METHODS                                                                                                                | 62/292495       |            |
| 1065US01 | SYSTEMS, DEVICES, AND METHODS FOR MACHINE READING                                                                                                               | 62/293010       |            |
| 948US01  | PERIPHERAL DEVICE IMPLEMENTATION SYSTEM AND ASSOCIATED METHODS                                                                                                  | 62/298527       |            |
| 1109US01 | A CLUSTER TRACKING SYSTEM                                                                                                                                       | 62/298626       |            |
| 315US02  | CODE USAGE MAP                                                                                                                                                  | 15/055501       |            |
| 1107US01 | IMAGE GENERATOR FOR LOCATION BASED ARRANGEMENTS OF ELEMENTS                                                                                                     | 62/300319       |            |
| 1127US01 | SYSTEMS AND METHODS FOR IMPROVED ACCESS TO ELECTRONIC DATA                                                                                                      | 62/300533       |            |

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| 492US02  | SYSTEMS, DEVICES, AND METHODS FOR SOFTWARE DISCOVERY USING APPLICATION ID TAGS                                | 15/056320       |            |
| 1125US01 | SYSTEMS, DEVICES, AND METHODS FOR DYNAMIC VIRTUAL DATA ANALYSIS                                               | 62/301146       |            |
| 766US01  | SYSTEMS AND METHODS FOR RECONCILIATION OF VARIOUS LOTTERY TRANSACTIONS                                        | 62/304795       |            |
| 1104US01 | SYSTEMS AND METHODS FOR PRODUCT SORTATION                                                                     | 62/305816       |            |
| 1204US01 | SENSOR SYSTEMS AND METHODS FOR MONITORING UNLOADING OF CARGO                                                  | 62/306161       |            |
| 569US02  | SYSTEMS AND METHODS FOR SOFTWARE SCANNING TOOL                                                                | 15/069510       | 9875096    |
| 441US02  | SYSTEMS AND METHODS FOR REPLENISHMENT IN A FREIGHT TETHERING ENVIRONMENT                                      | 15/069501       |            |
| 1318US01 | SYSTEM FOR VERIFYING PHYSICAL OBJECT ABSENCES FROM ASSIGNED REGIONS USING VIDEO ANALYTICS                     | 62/309057       |            |
| 1210US01 | SYSTEMS AND METHODS FOR OBJECT MATCHING AND SUBSTITUTION                                                      | 62/309678       |            |
| 1325US01 | SYSTEMS AND METHODS FOR AUTONOMOUS DRONE NAVIGATION                                                           | 62/311060       |            |
| 1203US01 | A SYSTEM FOR TRACKING PHYSICAL OBJECTS                                                                        | 62/312002       |            |
| 515US02  | MULTIPLE DISPLAY ENVIRONMENT FOR SOFTWARE DEVELOPMENT PROJECTS                                                | 15/079651       |            |
| 457US02  | SYSTEMS, DEVICES, AND METHODS FOR PREDICTING PRODUCT PERFORMANCE IN A RETAIL DISPLAY AREA                     | 15/085260       |            |
| 1202US01 | SYSTEMS, DEVICES, AND METHODS FOR COMPUTING GEOGRAPHICAL RELATIONSHIPS BETWEEN OBJECTS                        | 62/317074       |            |
| 1133US01 | SYSTEMS, DEVICES, AND METHODS FOR GENERATING A ROUTE FOR RELOCATING OBJECTS                                   | 62/317020       |            |
| 1199US01 | SYSTEMS AND METHODS FOR ESTIMATING A GEOGRAPHICAL LOCATION OF AN UNMAPPED OBJECT WITHIN A DEFINED ENVIRONMENT | 62/317833       |            |
| 1205US01 | SHOPPING CART CORRAL SYSTEM AND ASSOCIATED SYSTEMS AND METHODS                                                | 62/318886       |            |
| 1407US01 | SYSTEMS AND METHODS FOR DRONE DISPATCH AND OPERATION                                                          | 62/320090       |            |
| 186US03  | MERCHANDISE EVENT MONITORING VIA WIRELESS TRACKING                                                            | 15/096928       |            |

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| 1049US01 | SYSTEMS AND METHODS FOR VIRTUALIZATION IN DISTRIBUTED COMPUTING ENVIRONMENT INCLUDING A MOBILE MONITOR                                                                                              | 62/321463       |            |
| 1102US01 | SYSTEMS AND METHODS FOR LOCATING PHYSICAL OBJECTS USING LIVE IMAGE FEEDS                                                                                                                            | 62/321493       |            |
| 1714US01 | MECHANICAL OVERSTOCK AUDIT TOOL AND ASSOCIATED METHODS                                                                                                                                              | 62/321347       |            |
| 674US02  | MOBILE ANALYTICS COLLABORATION ALERTS                                                                                                                                                               | 15/136729       |            |
| 602US02  | SYSTEMS, DEVICES, AND METHODS FOR DISTRIBUTED PROCESSING FOR PREAUTHORIZED PAYMENT                                                                                                                  | 15/143433       | 9703448    |
| 1181US01 | DISTRIBUTED AUTONOMOUS ROBOT SYSTEMS AND METHODS                                                                                                                                                    | 62/331647       |            |
| 561US02  | SYSTEMS, DEVICES, AND METHODS FOR CONFIGURING A GRAPHICAL USER INTERFACE                                                                                                                            | 15/154415       |            |
| 563US02  | SYSTEMS, DEVICES, AND METHODS FOR CONTROLLING AN ELECTRONIC DISPLAY DEVICE TO RENDER A GRAPHICAL USER INTERFACE WITH SELECTIVELY OBFUSCATED PORTIONS TO PROTECT CONFIDENTIAL OR PRIVATE INFORMATION | 15/154424       |            |
| 522US02  | DISPLAY SYSTEMS AND METHODS                                                                                                                                                                         | 15/158427       |            |
| 475US02  | MEASUREMENT SYSTEM AND METHOD                                                                                                                                                                       | 15/159423       |            |
| 219US03  | WIDE ANGLE PLANAR ANTENNA ASSEMBLY                                                                                                                                                                  | 15/163108       | 9601834    |
| 1505US01 | SYSTEMS, DEVICES, AND METHODS FOR DYNAMICALLY GENERATING DELIVERY DESTINATIONS, TIME AND ROUTES                                                                                                     | 62/344118       |            |
| 524US02  | SYSTEMS AND METHODS FOR CONTROLLING CHECKOUT BELT SPEED                                                                                                                                             | 15/175335       |            |
| 307US02  | SYSTEMS AND METHODS FOR SALES EXECUTION ENVIRONMENT                                                                                                                                                 | 15/106658       |            |
| 506US02  | SYSTEMS AND METHOD FOR REMOTE ACCESS                                                                                                                                                                | 15/188001       |            |
| 507US02  | SYSTEM AND METHOD FOR ELECTRONIC DEVICE ACCESS                                                                                                                                                      | 15/188011       |            |
| 302US02  | SYSTEM AND METHOD FOR PERFORMING OPERATIONS IN RESPONSE TO PREAUTHORIZATION AND GEOGRAPHIC LOCATION DATA                                                                                            | 15/109065       |            |
| 1158US01 | SYSTEMS AND METHODS FOR AUTOMATED ASSESSMENT OF PHYSICAL OBJECTS                                                                                                                                    | 62/361285       |            |
| 1417US01 | SYSTEMS AND METHODS FOR DETECTING VEHICLE ATTRIBUTES                                                                                                                                                | 62/362295       |            |

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| 1498US01 | SYSTEMS, DEVICES, AND METHODS FOR GENERATING TERMINAL RESOURCE RECOMMENDATIONS      | 62/365643       |            |
| 660US02  | SYSTEMS, DEVICES, AND METHODS FOR DETECTING FIREARM STRAW PURCHASES                 | 15/221182       |            |
| 723US02  | SYSTEMS, DEVICES, AND METHODS FOR GENERATING REDEEMABLE ELECTRONIC FUEL CODES       | 15/222110       |            |
| 723US03  | SYSTEMS, DEVICES, AND METHODS FOR GENERATING REDEEMABLE ELECTRONIC FUEL CODES       | 15/222154       |            |
| 1420US01 | SYSTEMS AND METHODS FOR ESTIMATING TRAFFIC BASED ON DEPRESSIONS IN FLOOR MATS       | 62/369404       |            |
| 676US02  | SYSTEMS AND METHODS FOR RECOMMENDATION TOOL                                         | 15/226073       |            |
| 1421US01 | SYSTEM AND METHODS FOR DETECTING MISSING LABELS                                     | 62/374404       |            |
| 1590US01 | PERISHABLE FOOD DETECTION SYSTEM                                                    | 62/375015       |            |
| 1418US01 | SYSTEMS AND METHODS FOR DETERMINING CROWD TRAFFIC BY DETECTING DEBRIS IN FLOOR MATS | 62/375523       |            |
| 1422US01 | OBJECT DETECTION USING AUTONOMOUS ROBOT DEVICES                                     | 62/375525       |            |
| 1523US01 | CART INVENTORY SYSTEM AND ASSOCIATED METHODS                                        | 62/378755       |            |
| 1412US01 | SYSTEMS, DEVICES, AND METHODS FOR MOTION DETECTION USING AN AIR CURTAIN             | 62/379338       |            |
| 268US02  | AUTOMATIC TRANSFER SWITCH MAINTENANCE BYPASS CABINET                                | 15/121950       |            |
| 1409US01 | VEHICLE ANALYSIS SYSTEM AND ASSOCIATED METHODS                                      | 62/379974       |            |
| 1411US01 | VEHICLE SUSPENSION MEASUREMENT SYSTEM AND ASSOCIATED METHODS                        | 62/379978       |            |
| 752US02  | BAG DISPENSER                                                                       | 15/250360       |            |
| 2834US01 | DRY ERASER AND ASSOCIATED SYSTEMS AND METHODS                                       | 62/381328       |            |
| 2832US01 | DRY ERASER AND ASSOCIATED SYSTEMS AND METHODS                                       | 62/381338       |            |
| 584US02  | MODULARIZABLE REGISTER                                                              | 15/258482       |            |
| 758US02  | MAINTENANCE OF DISTRIBUTED COMPUTING SYSTEMS                                        | 15/258488       |            |
| 1415US01 | SENSOR SYSTEMS AND METHODS FOR ANALYZING PRODUCE AND PLASTIC BAG PROPERTIES         | 62/384791       |            |
| 1495US01 | CART WEIGHT SENSING SYSTEM                                                          | 62/384937       |            |
| 1619US01 | AUTOMATED TOTE ROUTING SYSTEM AND METHODS                                           | 62/384856       |            |

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| 1522US01 | SYSTEMS AND METHODS FOR AUTONOMOUS ASSISTANCE AND ROUTING                                      | 62/384990       |            |
| 1406US01 | VEHICLE IDENTIFICATION SYSTEM AND ASSOCIATED METHODS                                           | 62/393225       |            |
| 1414US01 | SHOPPING CART DEFLECTION MEASUREMENT SYSTEM AND ASSOCIATED METHODS                             | 62/393231       |            |
| 1497US01 | MILK STORAGE SYSTEM AND ASSOCIATED METHODS                                                     | 62/393309       |            |
| 1410US01 | SYSTEMS AND METHODS FOR ANALYZING REMOTELY LOCATED FACILITIES                                  | 62/393808       |            |
| 1508US01 | SYSTEM AND METHODS FOR IDENTIFYING AN ACTION BASED ON SOUND DETECTION                          | 62/393763       |            |
| 1509US01 | SYSTEMS AND METHODS FOR IDENTIFYING AN ACTION OF A FORKLIFT BASED ON SOUND DETECTION           | 62/393765       |            |
| 1510US01 | SYSTEM AND METHODS FOR ESTIMATING STORAGE CAPACITY BASED ON SOUND DETECTION                    | 62/393767       |            |
| 1511US01 | SYSTEM AND METHODS FOR DETECTING FULLNESS OF A TOTE BASED ON SOUND                             | 62/393769       |            |
| 1512US01 | SYSTEM AND METHODS FOR IDENTIFYING AN ACTION BASED ON A CHRONOLOGICAL ORDER OF DETECTED SOUNDS | 62/393772       |            |
| 1513US01 | SYSTEM AND METHODS FOR IDENTIFYING ACCIDENTS BASED ON SOUND DETECTION                          | 62/393773       |            |
| 1530US01 | AUTOMATED INTEGRATION SYSTEM                                                                   | 62/394372       |            |
| 1531US01 | SYSTEM AND METHOD FOR A DISTRIBUTED DATA MANAGEMENT SYSTEM                                     | 62/394379       |            |
| 1533US01 | SYSTEM AND METHOD FOR A DISTRIBUTED ADJUSTMENT SYSTEM                                          | 62/394382       |            |
| 1520US01 | DYNAMIC PROJECTION SYSTEM                                                                      | 62/395005       |            |
| 1622US01 | SECURE ENCLOSURE SYSTEM AND ASSOCIATED METHODS                                                 | 62/396607       |            |
| 1624US01 | AUTONOMOUS VEHICLE CONTENT IDENTIFICATION SYSTEM AND ASSOCIATED METHODS                        | 62/396609       |            |
| 2813US01 | LID FOR A REUSABLE PLASTIC CONTAINER                                                           | 62/396698       |            |
| 794US02  | ADJUSTABLE INTERACTIVE VOICE RESPONSE SYSTEM                                                   | 15/270203       | 9736310    |
| 771US02  | ADJUSTABLE DUAL-TONE MULTI-FREQUENCY PHONE SYSTEM                                              | 15/270183       | 9894210    |

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| 1112US01 | SYSTEMS AND METHODS FOR TRACKING USERS OF WEARABLE DEVICES                                | 62/397146       |            |
| 1518US01 | SYSTEMS AND METHODS FOR AUTONOMOUS ITEM IDENTIFICATION                                    | 62/397108       |            |
| 1521US01 | SYSTEMS, DEVICES, AND METHODS FOR PROVIDING DRONE ASSISTANCE                              | 62/397058       |            |
| 1033US01 | SYSTEM AND METHODS FOR POINT TO POINT ENCRYPTION AND TOKENIZATION                         | 62/397508       |            |
| 2909US01 | SYSTEM AND METHODS FOR POINT TO POINT ENCRYPTION AND TOKENIZATION USING A MOBILE DEVICE   | 62/397514       |            |
| 2910US01 | SYSTEM AND METHODS FOR POINT TO POINT ENCRYPTION AND TOKENIZATION IN A HOSTED ENVIRONMENT | 62/397555       |            |
| 792US02  | SYSTEMS AND METHODS OF OBJECT IDENTIFICATION AND DATABASE CREATION                        | 15/274407       |            |
| 2906US01 | SOFT-SIDED COOLER                                                                         | 62/399806       |            |
| 801US02  | LOCATION BASED REGISTER RULES                                                             | 15/277138       |            |
| 787US02  | COLLAPSIBLE RECYCLING SACK                                                                | 15/278352       |            |
| 935US02  | AUGMENTED REFRIGERATED DISPLAY UNIT                                                       | 15/280511       |            |
| 1487US01 | BRUSH ASSEMBLY                                                                            | 62/401400       |            |
| 1708US01 | SYSTEMS, DEVICES, AND METHODS FOR DETECTING SPILLS USING AUDIO SENSORS                    | 62/401376       |            |
| 2806US01 | SYSTEM AND METHODS FOR DRONE-BASED VEHICLE STATUS DETERMINATION                           | 62/403971       |            |
| 2807US01 | SYSTEMS AND METHODS FOR AUTONOMOUS DRONE NAVIGATION                                       | 62/403985       |            |
| 793US02  | DATA SYNTHESIS USING NEAR FIELD COMMUNICATION                                             | 15/290596       |            |
| 1709US01 | SYSTEMS, DEVICES, AND METHODS FOR DETECTING SPILLS                                        | 62/407297       |            |
| 1688US01 | SHELF SYSTEM AND ASSOCIATED METHODS                                                       | 62/407821       |            |
| 1620US01 | SYSTEMS, DEVICES, AND METHODS FOR OBJECT QUALITY MONITORING                               | 62/408660       |            |
| 1517US01 | SYSTEMS, DEVICES, AND METHODS FOR MONITORING OBJECTS IN A CART                            | 62/409443       |            |
| 390US02  | MACHINE LEARNING SYSTEM                                                                   | 15/335010       |            |
| 1289US01 | AUTOMATED PAINT MIXING AND VERIFICATION SYSTEM AND METHODS                                | 62/415846       |            |

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| 855US02  | SYSTEMS AND METHODS FOR CORRECTION OF GEOGRAPHIC INCONSISTENCY IN ITEM PROPERTIES | 15/342511       |            |
| 1463US01 | CONFIGURABLE PRODUCT HOUSING SYSTEM                                               | 62/416918       |            |
| 802US03  | DISTRIBUTED COMPUTING SYSTEM                                                      | 15/347862       |            |
| 348US02  | SYSTEMS AND METHODS FOR CASHIER SCHEDULING                                        | 15/310534       |            |
| 837US02  | MERCHANDISE FIXTURE                                                               | 15/350344       |            |
| 2878US01 | SOFT-SIDED COOLER                                                                 | 29/584726       |            |
| 2877US01 | SOFT-SIDED COOLER BACKPACK                                                        | 29/584728       |            |
| 2876US01 | SOFT-SIDED COOLER TOTE                                                            | 29/584729       |            |
| 1743US01 | INSTRUCTION RETRIEVAL SYSTEM                                                      | 62/423366       |            |
| 1191US02 | SYSTEMS AND METHODS FOR FLEXIBLY SECURING DATA                                    | 15/357191       |            |
| 1519US01 | SYSTEMS AND METHODS FOR DETERMINING LABEL POSITIONS                               | 62/427537       |            |
| 2293US01 | SYSTEMS AND METHODS FOR IDENTIFYING AVAILABLE LOCATION-BASED SERVICES             | 62/432339       |            |
| 2301US01 | SYSTEMS AND METHODS FOR IDENTIFYING LOCATION-BASED SERVICES                       | 62/432267       |            |
| 1048US02 | DATA BREACH DETECTION SYSTEM                                                      | 15/376038       |            |
| 1516US01 | DYNAMIC ALERT SYSTEM IN A FACILITY                                                | 62/432775       |            |
| 933US02  | POSITION TRACKING SYSTEM                                                          | 15/377619       |            |
| 846US02  | TWO-WAY MERCHANDISE FIXTURE                                                       | 15/379099       |            |
| 1625US01 | FLOOR MAT SENSING SYSTEM AND ASSOCIATED METHODS                                   | 62/434112       |            |
| 1945US01 | PORTABLE CONTAINER                                                                | 62/434121       |            |
| 1009US02 | SERVICE STATION FUEL PUMP                                                         | 15/381048       |            |
| 1009US03 | SYSTEM FOR REMOTELY IDENTIFYING A VEHICLE                                         | 15/381051       |            |
| 449US02  | SYSTEMS AND METHODS FOR DATA AUTHENTICATION VIA A STATELESS EDGE APPLIANCE        | 15/380698       |            |
| 1010US02 | SYSTEMS AND METHODS FOR RESOLVING DATA DISCREPANCY                                | 15/381480       |            |
| 1514US01 | SYSTEMS AND METHODS FOR SORTING MECHANISMS AT A TERMINAL                          | 62/437492       |            |
| 1515US01 | SYSTEMS AND METHODS FOR SORTING MECHANISMS AT A TERMINAL                          | 62/437491       |            |
| 1689US01 | DETECTION SYSTEM FOR UNSAFE ACTIVITY AT A SHELVING UNIT                           | 62/437488       |            |
| 1905US01 | SHOPPING CART WITH ASSISTANCE UNIT                                                | 62/437286       |            |

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| 1850US01 | SHOPPING CART WITH STERILIZATION MECHANISM                                              | 62/438091       |            |
| 1690US01 | SYSTEM AND METHODS FOR IDENTIFYING POSITIONS OF PHYSICAL OBJECTS BASED ON SOUNDS        | 62/442207       |            |
| 1735US01 | TASK-INDICATING SHELF                                                                   | 62/444424       |            |
| 3117US01 | REUSABLE BREAK PACK CARTON                                                              | 62/445099       |            |
| 1621US01 | SYSTEMS AND METHODS FOR DELIVERY VEHICLE MONITORING                                     | 62/445442       |            |
| 1526US01 | INVENTORY MONITORING SYSTEM AND ASSOCIATED METHODS                                      | 62/445946       |            |
| 1527US01 | INVENTORY MONITORING SYSTEM WITH VISUAL INDICATOR AND ASSOCIATED METHODS                | 62/445959       |            |
| 1719US01 | ZONING TOOL                                                                             | 62/445784       |            |
| 1816US01 | ADJUSTABLE APPARATUS FOR PRODUCT DISPLAY                                                | 62/445785       |            |
| 565US02  | HIGH VELOCITY CHECKOUT TERMINAL                                                         | 15/409413       |            |
| 1032US02 | CLIP FOR SECURING ELONGATED LABEL TRACK AND ASSOCIATED SYSTEMS AND METHODS              | 15/411240       |            |
| 1623US01 | SYSTEMS AND METHODS FOR MONITORING HOME INVENTORY                                       | 62/448530       |            |
| 337US02  | SYSTEM AND METHOD FOR GROUPED ANALYSIS VIA GEOGRAPHICALLY DISTRIBUTED SERVERS           | 15/328823       |            |
| 2052US01 | STORAGE CONTAINER WITH TEMPERATURE CONTROL                                              | 62/449770       |            |
| 2119US01 | INSULATED BAG ROLL SYSTEM                                                               | 62/449780       |            |
| 1684US01 | SHOPPING CART WITH AN RFID INTERFACE AND ASSOCIATED SYSTEMS AND METHODS                 | 62/450737       |            |
| 1685US01 | SHOPPING CART AND ASSOCIATED SYSTEMS AND METHODS                                        | 62/450655       |            |
| 1686US01 | SHOPPING CART WITH AN RFID INTERFACE AND ASSOCIATED SYSTEMS AND METHODS                 | 62/450698       |            |
| 1733US01 | SYSTEM AND METHOD FOR LOCATING FIXTURES USING RF ANTENNAS                               | 62/450856       |            |
| 1747US01 | SYSTEM AND METHOD FOR ASSESSING WAIT TIMES IN A FACILITY                                | 62/450632       |            |
| 347US02  | SYSTEMS AND METHODS FOR DYNAMIC CALCULATION AND UPDATES OF VALUES                       | 15/500415       |            |
| 393US02  | SYSTEMS AND METHODS FOR DYNAMIC VALUE CALCULATION AND UPDATE ACROSS DISTRIBUTED SERVERS | 15/500424       |            |
| 1869US01 | DISTRIBUTED AUTONOMOUS ROBOT SYSTEMS AND METHODS                                        | 62/452112       |            |

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| 1871US01 | DISTRIBUTED AUTONOMOUS ROBOT INTERFACING SYSTEMS AND METHODS                                      | 62/452118       |            |
| 1870US01 | SYSTEMS AND METHODS FOR DISTRIBUTED AUTONOMOUS ROBOT INTERFACING USING LIVE IMAGE FEEDS           | 62/452121       |            |
| 1872US01 | DISTRIBUTED AUTONOMOUS ROBOT SYSTEMS AND METHODS WITH RFID TRACKING                               | 62/452125       |            |
| 1873US01 | SYSTEMS AND METHODS FOR RESOLVING ISSUES IN A DISTRIBUTED AUTONOMOUS ROBOT SYSTEM                 | 62/452128       |            |
| 843US01  | SYSTEMS AND METHODS FOR A SPECIALIZED COMPUTER FILE SYSTEM                                        | 62/452224       |            |
| 1064US02 | SELF-DEPOSIT APPARATUS                                                                            | 15/420587       |            |
| 1073US02 | SHOPPING CART COMMUNICATION SYSTEM                                                                | 15/420363       |            |
| 2050US01 | SYSTEMS, DEVICES, AND METHODS FOR LABEL-FREE SHIPPING                                             | 62/453382       |            |
| 2058US01 | SECURITY DETECTION SYSTEM USING ROBOTIC DEVICES                                                   | 62/453655       |            |
| 947US01  | SYSTEMS AND METHODS FOR DISPLAYING AN ITEM IN A SELECTED STORAGE LOCATION USING AUGMENTED REALITY | 62/453787       |            |
| 1792US01 | SYSTEMS, DEVICES, AND METHODS FOR GENERATING PERSONALIZED ELECTRONIC DOCUMENTS                    | 15/423535       |            |
| 2889US01 | SYSTEMS, DEVICES, AND METHODS FOR PROVIDING INTERACTIVE PHARMACY SERVICES                         | 15/423533       |            |
| 1071US02 | SHOPPING CART AND ASSOCIATED SYSTEMS AND METHODS                                                  | 15/426569       |            |
| 1485US01 | MOLD INHIBITING PACKAGE AND ASSOCIATED METHODS FOR FABRICATING AND PACKAGING                      | 62/455682       |            |
| 1821US01 | SYSTEMS AND METHODS FOR EMPLOYEE TIME RECORDING                                                   | 62/455911       |            |
| 1065US02 | SYSTEMS, DEVICES, AND METHODS FOR MACHINE READING                                                 | 15/428802       |            |
| 1946US01 | SYSTEMS AND METHODS FOR MONITORING SHOPPING CART WHEELS                                           | 62/456805       |            |
| 092US03  | SECURITY BYPASS ENVIRONMENT FOR CIRCUMVENTING A SECURITY APPLICATION IN A COMPUTING ENVIRONMENT   | 15/429921       | 9888009    |
| 219US04  | WIDE ANGLE PLANAR ANTENNA ASSEMBLY                                                                | 15/430048       |            |
| 1636US01 | VOICE ACTIVATED ASSISTANCE SYSTEM                                                                 | 62/458109       |            |

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| 1948US01 | TEMPERATURE CONTROLLED-SHOPPING CART SYSTEM                                                      | 62/458104       |            |
| 1832US01 | PAINT MIXING SYSTEM                                                                              | 62/458645       |            |
| 2056US01 | LASER-GUIDED UAV DELIVERY SYSTEM                                                                 | 62/459673       |            |
| 1635US01 | VIRTUAL RETAIL SHOWROOM SYSTEM                                                                   | 62/459696       |            |
| 1637US01 | SYSTEMS AND METHODS FOR A VIRTUAL REALITY SHOWROOM WITH AUTONOMOUS STORAGE AND RETRIEVAL         | 62/459695       |            |
| 1391US01 | UNMANNED AERIAL/GROUND VEHICLE (UAGV) DETECTION SYSTEM AND METHOD                                | 62/459876       |            |
| 2186US01 | SYSTEMS AND METHODS FOR IDENTIFYING AND DISPLAYING OPTIMAL LOCATIONS FOR A GARDEN                | 62/459677       |            |
| 948US02  | PERIPHERAL DEVICE IMPLEMENTATION SYSTEM AND ASSOCIATED METHODS                                   | 15/435699       |            |
| 2049US01 | AUTONOMOUS UAV RETRIEVAL SYSTEM                                                                  | 62/460313       |            |
| 1868US01 | ELECTRONIC SHELF-LABEL SYSTEM                                                                    | 62/460299       |            |
| 2059US01 | TEMPERATURE-CONTROLLED UAV STORAGE SYSTEM                                                        | 62/461565       |            |
| 1107US02 | IMAGE GENERATOR FOR LOCATION BASED ARRANGEMENTS OF ELEMENTS                                      | 15/439448       |            |
| 1109US02 | CLUSTER TRACKING SYSTEM                                                                          | 15/439418       |            |
| 1641US01 | VOICE ACTIVATED UNMANNED AERIAL VEHICLE (UAV) ASSISTANCE SYSTEM                                  | 62/461911       |            |
| 2158US01 | SYSTEMS AND METHODS FOR INTEGRATING ORDERED SERVICES                                             | 62/462060       |            |
| 1687US01 | SHOPPING CART WITH RFID AND BIOMETRIC COMPONENTS AND ASSOCIATED SYSTEMS AND METHODS              | 62/462644       |            |
| 1736US01 | AUTOMATED SHELF SENSING SYSTEM                                                                   | 62/462601       |            |
| 466US02  | SYSTEMS AND METHODS FOR PROMOTIONAL PROGRAMS                                                     | 15/507157       |            |
| 1127US02 | SYSTEMS AND METHODS FOR ACCESS TO ELECTRONIC DATA                                                | 15/443706       |            |
| 2017US01 | SYSTEMS, DEVICES, AND METHODS FOR IN-FIELD AUTHENTICATING OF AUTONOMOUS ROBOTS                   | 62/463869       |            |
| 1125US02 | SYSTEMS, DEVICES, AND METHODS FOR DYNAMIC VIRTUAL DATA ANALYSIS                                  | 15/445300       |            |
| 1525US01 | SYSTEMS, DEVICES, AND METHODS FOR FORMING THREE DIMENSIONAL PRODUCTS WITH EMBEDDED RFID ELEMENTS | 62/465557       |            |

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| 2014US01 | SYSTEMS, DEVICES, AND METHODS FOR DETERMINING RELOCATION DESTINATIONS FOR DISTRIBUTED OBJECTS                 | 62/465554       |            |
| 2048US01 | REFRIGERATED BLANKET FOR COLD PRODUCT TRANSPORT                                                               | 62/465499       |            |
| 1391US02 | UNMANNED AERIAL/GROUND VEHICLE (UAGV) DETECTION SYSTEM AND METHOD                                             | 62/467510       |            |
| 1104US02 | SYSTEMS AND METHODS FOR PRODUCT SORTATION                                                                     | 15/452721       |            |
| 766US02  | SYSTEMS AND METHODS FOR RECONCILIATION OF VARIOUS LOTTERY TRANSACTIONS                                        | 15/452231       |            |
| 1204US02 | SENSOR SYSTEMS AND METHODS FOR MONITORING UNLOADING OF CARGO                                                  | 15/452977       |            |
| 1318US02 | SYSTEM FOR VERIFYING PHYSICAL OBJECT ABSENCES FROM ASSIGNED REGIONS USING VIDEO ANALYTICS                     | 15/459451       |            |
| 1203US02 | A SYSTEM FOR TRACKING PHYSICAL OBJECTS                                                                        | 15/464483       |            |
| 1325US02 | SYSTEMS AND METHODS FOR AUTONOMOUS DRONE NAVIGATION                                                           | 15/464659       |            |
| 1133US02 | SYSTEMS, DEVICES, AND METHODS FOR GENERATING A ROUTE FOR RELOCATING OBJECTS                                   | 15/474467       |            |
| 1202US02 | SYSTEMS, DEVICES, AND METHODS FOR COMPUTING GEOGRAPHICAL RELATIONSHIPS BETWEEN OBJECTS                        | 15/476947       |            |
| 1456US01 | INTELLIGENT FIXTURE SYSTEM                                                                                    | 62/480790       |            |
| 1823US01 | SYSTEMS AND METHODS FOR INTAKE AND TRANSPORT OF PHYSICAL OBJECTS IN A FACILITY                                | 62/480796       |            |
| 1199US02 | SYSTEMS AND METHODS FOR ESTIMATING A GEOGRAPHICAL LOCATION OF AN UNMAPPED OBJECT WITHIN A DEFINED ENVIRONMENT | 15/478628       |            |
| 1205US02 | SHOPPING CART CORRAL SYSTEM AND ASSOCIATED SYSTEMS AND METHODS                                                | 15/479658       |            |
| 2146US01 | DISTRIBUTED SYSTEM FOR DYNAMIC SENSOR-BASED TRIP ESTIMATION                                                   | 62/481933       |            |
| 1283US01 | AUTHENTICATION SYSTEM USING NFC TAGS                                                                          | 62/482479       |            |
| 2253US01 | INFECTED FILE DETECTION AND QUARANTINE SYSTEM                                                                 | 62/482484       |            |
| 1407US02 | SYSTEMS AND METHODS FOR DRONE DISPATCH AND OPERATION                                                          | 15/482147       |            |
| 1849US01 | SYSTEMS, DEVICES, AND METHODS FOR AUTOMATED PALLET AND RECEPTACLE RELOCATION                                  | 62/482957       |            |

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| 2527US01 | SYSTEM FOR RECORDING OWNERSHIP OF DIGITAL WORKS AND PROVIDING BACKUP COPIES                                                     | 62/482908       |            |
| 2532US01 | SYSTEMS AND METHODS FOR DATA BACKUP AND AUTHENTICATION USING BLOCKCHAIN                                                         | 62/482927       |            |
| 1714US02 | MECHANICAL OVERSTOCK AUDIT TOOL AND ASSOCIATED METHODS                                                                          | 15/484651       |            |
| 1049US02 | SYSTEMS AND METHODS FOR VIRTUALIZATION IN DISTRIBUTED COMPUTING ENVIRONMENT INCLUDING A MOBILE MONITOR                          | 15/485834       |            |
| 1102US02 | SYSTEMS AND METHODS FOR LOCATING PHYSICAL OBJECT USING LIVE IMAGE FEEDS                                                         | 15/485847       |            |
| 1056US01 | EVENT STREAMING SYSTEM                                                                                                          | 62/485110       |            |
| 2551US01 | HYBRID REMOTE RETRIEVAL SYSTEM                                                                                                  | 62/486120       |            |
| 1181US02 | DISTRIBUTED AUTONOMOUS ROBOT SYSTEMS AND METHODS                                                                                | 15/587113       |            |
| 1949US01 | TOILET OVERFLOW CONTAINMENT SYSTEM                                                                                              | 62/501301       |            |
| 2161US01 | SYSTEMS AND METHODS FOR PROVIDING ACCESS TO A SECURED CONTAINER                                                                 | 62/501465       |            |
| 1128US01 | DISTRIBUTED IMAGE-BASED ACQUISITION SYSTEM                                                                                      | 62/503694       |            |
| 1542US01 | CLOUD BASED AUTHENTICATION OF OBJECTS                                                                                           | 62/506214       |            |
| 2083US01 | SYSTEMS AND METHODS FOR DYNAMICALLY UPDATING STORED LISTS BASED ON CONTEMPORANEOUS LOCATION DATA ASSOCIATED WITH CLIENT DEVICES | 62/506217       |            |
| 1683US01 | SYSTEMS, DEVICES, AND METHODS FOR MONITORING OBJECT LOCATIONS                                                                   | 62/507839       |            |
| 1505US02 | SYSTEMS, DEVICES, AND METHODS FOR DYNAMICALLY GENERATING DELIVERY DESTINATIONS, TIME AND ROUTES                                 | 15/609863       |            |
| 2176US01 | AUGMENTED TOUCH-SENSITIVE DISPLAY SYSTEM                                                                                        | 62/516766       |            |
| 2105US01 | METHODS AND SYSTEMS FOR AN ELECTRONIC SHELF LABEL SYSTEM                                                                        | 62/517013       |            |
| 1866US01 | SYSTEMS AND METHODS FOR PROVIDING LOCATION-BASED TIME-LIMITED SERVICES                                                          | 62/517551       |            |
| 1290US01 | SYSTEMS AND METHODS FOR A COMMUNICATION SYSTEM                                                                                  | 62/517560       |            |
| 2210US01 | SYSTEMS AND METHODS FOR AUTOMATIC PHYSICAL OBJECT STATUS MARKING                                                                | 62/517274       |            |

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| 921US01  | SYSTEMS, DEVICES, AND METHODS FOR MONITORING PACKAGES WITH AFFIXED SENSORS                                                  | 62/517313       |            |
| 3472US01 | BREAK PACK CONTAINER                                                                                                        | 62/517224       |            |
| 2481US01 | SYSTEMS AND METHODS FOR AN AUGMENTED DISPLAY SYSTEM                                                                         | 62/517242       |            |
| 1409US02 | VEHICLE ANALYSIS SYSTEM AND ASSOCIATED METHODS                                                                              | 15/621681       |            |
| 411US02  | VEHICLE SUSPENSION MEASUREMENT SYSTEM AND ASSOCIATED METHODS                                                                | 15/621775       |            |
| 1523US02 | CART INVENTORY SYSTEM AND ASSOCIATED METHODS                                                                                | 15/621643       |            |
| 602US03  | SYSTEMS, DEVICES, AND METHODS FOR DISTRIBUTED PROCESSING FOR PREAUTHORIZED PAYMENT                                          | 15/622989       |            |
| 249US02  | SYSTEM AND METHOD FOR DISPENSING AND PURCHASING FUEL                                                                        | 15/628866       |            |
| 3036US01 | SYSTEMS AND METHODS FOR DYNAMIC FILE CREATION                                                                               | 62/522839       |            |
| 2936US01 | SYSTEMS AND METHODS FOR OBJECT REPLACEMENT                                                                                  | 62/522883       |            |
| 842US01  | SYSTEM AND METHODS FOR AN INFORMATION STORAGE AND RETRIEVAL SYSTEM FOR AN ELECTRONIC DOCUMENT INTERCHANGE (EDI) ENVIRONMENT | 62/523345       |            |
| 1158US02 | SYSTEMS AND METHODS FOR AUTOMATED ASSESSMENT OF PHYSICAL OBJECTS                                                            | 15/632946       |            |
| 1417US02 | SYSTEMS AND METHODS FOR DETECTING VEHICLE ATTRIBUTES                                                                        | 15/632912       |            |
| 1934US01 | SYSTEMS, METHODS, AND DEVICES FOR PROVIDING A VIRTUAL REALITY WHITEBOARD                                                    | 62/525875       |            |
| 3303US01 | SYSTEMS AND METHODS FOR RECOMMENDING OBJECTS BASED ON CAPTURED DATA                                                         | 62/530558       |            |
| 2295US01 | SYSTEMS AND METHODS FOR MAINTAINING QUALITY CONTROL BETWEEN DISTRIBUTION CENTERS AND FACILITIES                             | 62/531040       |            |
| 2624US01 | ADJUSTABLE TRUCK COMPARTMENT SYSTEM                                                                                         | 62/530915       |            |
| 3455US01 | SYSTEMS AND METHODS FOR EMPLOYEE PROXIMITY TRACKING                                                                         | 62/531045       |            |
| 2163US01 | SYSTEMS AND METHODS FOR DYNAMICALLY DISPLAYING INFORMATION ABOUT AN OBJECT USING AUGMENTED REALITY                          | 62/531518       |            |
| 3094US01 | AUTONOMOUS ROBOT DELIVERY SYSTEMS AND METHODS                                                                               | 62/531576       |            |

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| 1421US02 | SYSTEMS AND METHODS FOR DETECTING MISSING LABELS                                                 | 15/649890       |            |
| 3459US01 | SYSTEMS AND METHODS FOR SECUREMENT OF CARGO ON A PALLET                                          | 62/532559       |            |
| 1422US02 | OBJECT DETECTION USING AUTONOMOUS ROBOT DEVICES                                                  | 15/651693       |            |
| 1590US02 | PERISHABLE FOOD DETECTION SYSTEM                                                                 | 15/653786       |            |
| 1498US02 | SYSTEMS, DEVICES, AND METHODS FOR GENERATING TERMINAL RESOURCE RECOMMENDATIONS                   | 15/653580       |            |
| 052US03  | SYSTEM AND METHOD FOR TRANSACTION PAYMENTS USING A MOBILE DEVICE                                 | 15/656921       |            |
| 1540US01 | SYSTEMS AND METHODS FOR CHIP-EMBEDDED PRODUCT SEALS                                              | 62/535712       |            |
| 721US01  | SYSTEMS AND METHODS FOR PREDICTING BUFFER VALUE                                                  | 62/537104       |            |
| 513US02  | REAL TIME ORDER AND ACTIVATION PROCESSING SYSTEM                                                 | 15/661896       |            |
| 2891US01 | SYSTEM AND METHODS FOR DATA TRANSFER IN DISTRIBUTED ENVIRONMENTS                                 | 62/537620       |            |
| 794US03  | ADJUSTABLE INTERACTIVE VOICE RESPONSE SYSTEM                                                     | 15/664086       |            |
| 794US04  | ADJUSTABLE INTERACTIVE VOICE RESPONSE SYSTEM AND METHODS OF USING SAME                           | 15/664107       |            |
| 3452US01 | SYSTEMS AND METHODS FOR PROVIDING EMERGENCY MEDICAL ASSISTANCE USING AN AUTOMATED GUIDED VEHICLE | 62/540349       |            |
| 3876US01 | ITEM ALIGNMENT TOOL                                                                              | 62/540239       |            |
| 2483US01 | MODULAR ROBOTIC ROVER                                                                            | 62/540774       |            |
| 2177US01 | ELECTRONIC LABEL SYSTEM                                                                          | 62/540822       |            |
| 3228US01 | AUTONOMOUS VEHICLE-BASED ITEM RETRIEVAL SYSTEM AND METHOD                                        | 62/540762       |            |
| 2934US01 | AUTOMATED ITEM ASSORTMENT SYSTEM                                                                 | 62/540807       |            |
| 3210US01 | SYSTEM, DEVICES, AND METHODS FOR GENERATING A DYNAMIC THREE DIMENSIONAL COMMUNICATION MAP        | 62/541140       |            |
| 3209US01 | SYSTEMS, DEVICES, AND METHODS FOR RELAYING COMMUNICATIONS USING AUTONOMOUS DRONES                | 62/541144       |            |
| 2184US01 | DISTRIBUTES RECOGNITION FEEDBACK ACQUISITION SYSTEM                                              | 62/541377       |            |
| 3212US01 | SYSTEMS, DEVICES, AND METHODS FOR GENERATING ROUTES WITHIN LIMITED COMMUNICATION ZONES           | 62/541156       |            |

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| 2182US01 | SPOKEN LANGUAGE LOCALIZATION SYSTEM                                                                             | 62/541393       |            |
| 3211US01 | SYSTEM, DEVICES, AND METHODS FOR GENERATING VEHICLE ROUTES WITHIN SIGNAL COVERAGE ZONES                         | 62/541149       |            |
| 1418US02 | SYSTEMS AND METHODS FOR DETERMINING TRAFFIC BY DETECTING DEBRIS IN FLOOR MATS                                   | 15/671937       |            |
| 1414US02 | SHOPPING CART DEFLECTION MEASUREMENT SYSTEM AND ASSOCIATED METHODS                                              | 15/672843       |            |
| 1622US02 | SECURE ENCLOSURE SYSTEM AND ASSOCIATED METHODS                                                                  | 15/672772       |            |
| 1624US02 | AUTONOMOUS VEHICLE CONTENT IDENTIFICATION SYSTEM AND ASSOCIATED METHODS                                         | 15/672840       |            |
| 2164US01 | SYSTEMS, DEVICES, AND METHODS FOR AUTOMATICALLY TRIGGERING UNSOLICITED EVENTS IN RESPONSE TO DETECTION OF USERS | 62/543068       |            |
| 1522US02 | SYSTEMS AND METHODS FOR AUTONOMOUS ASSISTANCE AND ROUTING                                                       | 15/677647       |            |
| 1688US02 | SHELF SYSTEM AND ASSOCIATED METHODS                                                                             | 15/683229       |            |
| 1619US02 | AUTOMATED TOTE ROUTING SYSTEM AND METHODS                                                                       | 15/683949       |            |
| 1412US02 | SYSTEMS, DEVICES, AND METHODS FOR MOTION DETECTION USING AN AIR CURTAIN                                         | 15/685096       |            |
| 1495US02 | CART WEIGHT SENSING SYSTEM                                                                                      | 15/688041       |            |
| 3197US01 | AUTOMATED ROUTING SYSTEMS AND METHODS                                                                           | 62/551060       |            |
| 3488US01 | AUTONOMOUS YARD VEHICLE SYSTEM                                                                                  | 62/551431       |            |
| 3458US01 | CONCAVE-PALLET DESIGN WITH A LIP                                                                                | 62/551446       |            |
| 2834US02 | DRY ERASER AND ASSOCIATED SYSTEMS AND METHODS                                                                   | 15/690531       |            |
| 2832US02 | DRY ERASER AND ASSOCIATED SYSTEMS AND METHODS                                                                   | 15/690588       |            |
| 3460US01 | TEMPERATURE ENVIRONMENTAL SENSORS ON PALLET                                                                     | 62/551822       |            |
| 201US03  | FLEXIBLE STORE FULFILLMENT                                                                                      | 15/695349       |            |
| 264US05  | MODULAR WALL ASSEMBLY FOR A COSMETIC FIXTURE SYSTEM                                                             | 15/696846       |            |
| 1509US02 | SYSTEMS AND METHODS FOR IDENTIFYING AN ACTION OF A FORKLIFT BASED ON SOUND DETECTION                            | 15/696976       |            |
| 1415US02 | SENSOR SYSTEMS AND METHODS FOR ANALYZING PRODUCE                                                                | 15/697914       |            |

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| 1508US02 | SYSTEM AND METHODS FOR IDENTIFYING AN ACTION BASED ON SOUND DETECTION                               | 15/698052       |            |
| 1510US02 | SYSTEM AND METHODS FOR ESTIMATING STORAGE CAPACITY AND IDENTIFYING ACTIONS BASED ON SOUND DETECTION | 15/698055       |            |
| 137US03  | SYSTEM AND METHOD FOR STREAMING EVENTS IN A TRANSACTION-BASED SYSTEM                                | 15/699431       |            |
| 4350US01 | SYSTEMS AND METHODS FOR DISTRIBUTED ACQUISITIONS                                                    | 62/556457       |            |
| 1406US02 | VEHICLE IDENTIFICATION SYSTEM AND ASSOCIATED METHODS                                                | 15/700387       |            |
| 1520US02 | DYNAMIC PROJECTION SYSTEM                                                                           | 15/700523       |            |
| 1497US02 | MILK STORAGE SYSTEM AND ASSOCIATED METHODS                                                          | 15/700716       |            |
| 1410US02 | SYSTEMS AND METHODS FOR ANALYZING REMOTELY LOCATED FACILITIES                                       | 15/701737       |            |
| 1530US02 | AUTOMATED INTEGRATION SYSTEM                                                                        | 15/702015       |            |
| 1531US02 | SYSTEM AND METHOD FOR A DISTRIBUTED DATA MANAGEMENT SYSTEM                                          | 15/702056       |            |
| 1533US02 | SYSTEM AND METHOD FOR A DISTRIBUTED ADJUSTMENT SYSTEM                                               | 15/702079       |            |
| 3795US01 | SYSTEMS AND METHODS FOR YARD MANAGEMENT AT DISTRIBUTION CENTERS                                     | 62/557422       |            |
| 4351US01 | SYSTEMS AND METHODS FOR AUTOMATED HARMONIZED SYSTEMS (HS) CODE ASSIGNMENT                           | 62/557429       |            |
| 1980US01 | SYSTEMS AND METHODS FOR DYNAMIC DELIVERY                                                            | 62/558013       |            |
| 3457US01 | SYSTEM AND METHOD FOR PALLET OPTIMIZATION                                                           | 62/558813       |            |
| 1518US02 | SYSTEMS AND METHODS FOR AUTONOMOUS ITEM IDENTIFICATION                                              | 15/707076       |            |
| 2813US02 | LID FOR A REUSABLE PLASTIC CONTAINER                                                                | 15/707082       |            |
| 1112US02 | SYSTEMS AND METHODS FOR TRACKING USERS OF WEARABLE DEVICES                                          | 15/708826       |            |
| 1521US02 | SYSTEMS, DEVICES, AND METHODS FOR PROVIDING DRONE ASSISTANCE                                        | 15/708405       |            |
| 1033US02 | SYSTEM AND METHODS FOR POINT TO POINT ENCRYPTION AND TOKENIZATION                                   | 15/710107       |            |

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| 2909US02 | SYSTEM AND METHODS FOR POINT TO POINT ENCRYPTION AND TOKENIZATION USING A MOBILE DEVICE              | 15/710250       |            |
| 2910US02 | SYSTEM AND METHODS FOR POINT TO POINT ENCRYPTION AND TOKENIZATION IN A HOSTED ENVIRONMENT            | 15/710300       |            |
| 595US02  | SYSTEMS AND METHODS FOR A MULTI-DISPLAY COLLABORATION ENVIRONMENT                                    | 15/561422       |            |
| 2552US01 | SYSTEM AND METHODS FOR LOCATION VERIFICATION WITH BLOCKCHAIN CONTROLS                                | 62/562622       |            |
| 2906US02 | SOFT-SIDED COOLER                                                                                    | 15/715751       |            |
| 1334US01 | SYSTEM AND METHODS FOR RESOLVING DATA DISCREPANCIES IN A DISTRIBUTED SYSTEM WITH BLOCKCHAIN CONTROLS | 62/563996       |            |
| 1487US02 | BRUSH ASSEMBLY                                                                                       | 15/718086       |            |
| 1708US02 | SYSTEMS, DEVICES, AND METHODS FOR DETECTING SPILLS USING AUDIO SENSORS                               | 15/718727       |            |
| 2322US01 | SYSTEMS AND METHODS FOR IDENTIFYING AND MANAGING DELAYED DELIVERIES                                  | 62/564494       |            |
| 3818US01 | YARD MANAGEMENT SYSTEM                                                                               | 62/564671       |            |
| 2952US01 | SYSTEM AND METHOD FOR VIRTUAL DISPLAY OF CUSTOMIZED PRODUCTS IN A FACILITY                           | 62/566956       |            |
| 2806US02 | SYSTEM AND METHODS FOR DRONE-BASED VEHICLE STATUS DETERMINATION                                      | 15/723858       |            |
| 2807US02 | SYSTEMS AND METHODS FOR AUTONOMOUS DRONE NAVIGATION                                                  | 15/723889       |            |
| 1709US02 | SYSTEMS, DEVICES, AND METHODS FOR DETECTING SPILLS                                                   | 15/730161       |            |
| 1620US02 | SYSTEMS, DEVICES, AND METHODS FOR OBJECT QUALITY MONITORING                                          | 15/782074       |            |
| 1517US02 | SYSTEMS, DEVICES, AND METHODS FOR MONITORING OBJECTS IN A CART                                       | 15/785835       |            |
| 3466US01 | SYSTEMS AND METHODS FOR DYNAMIC ALLOCATION                                                           | 62/574470       |            |
| 4528US01 | SYSTEMS AND METHODS FOR ROUTING DATA IN DISTRIBUTED ENVIRONMENTS                                     | 62/576915       |            |
| 1625US02 | FLOOR MAT SENSING SYSTEM AND ASSOCIATED METHODS                                                      | 15/794830       |            |
| 1289US02 | AUTOMATED PAINT MIXING AND VERIFICATION SYSTEM AND METHODS                                           | 15/794692       |            |

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| 4412US01 | DOLLY EDGE SUPPORT DEVICE                                                                             | 62/577508       |            |
| 1463US02 | CONFIGURABLE PRODUCT HOUSING SYSTEM                                                                   | 15/796404       |            |
| 1519US02 | SYSTEMS AND METHODS FOR DETERMINING LABEL POSITIONS                                                   | 15/800632       |            |
| 3451US01 | SYSTEM AND METHODS FOR AUTOMATED STORAGE RECEPTACLE PROCESSING                                        | 62/580668       |            |
| 3117US02 | REUSABLE BREAK PACK CARTON                                                                            | 15/805690       |            |
| 1516US02 | DYNAMIC ALERT SYSTEM IN A FACILITY                                                                    | 15/810683       |            |
| 1743US02 | AN INSTRUCTION RETRIEVAL SYSTEM                                                                       | 15/814905       |            |
| 4524US01 | ROBOTIC PILL FILLING, COUNTING, AND VALIDATION                                                        | 62/590646       |            |
| 1827US01 | SYSTEM AND METHOD FOR IDENTITY VERIFICATION OF A USER                                                 | 62/592805       |            |
| 3140US01 | SYSTEM AND METHOD FOR ACCIDENT MONITORING IN A FACILITY                                               | 62/592663       |            |
| 1945US02 | SMART LOCKER                                                                                          | 15/831693       |            |
| 1816US02 | ADJUSTABLE APPARATUS FOR PRODUCT DISPLAY                                                              | 15/831687       |            |
| 1719US02 | ZONING TOOL                                                                                           | 15/834390       |            |
| 2293US02 | SYSTEMS AND METHODS FOR IDENTIFYING AVAILABLE LOCATION-BASED SERVICES                                 | 15/834674       |            |
| 2301US02 | SYSTEMS AND METHODS FOR IDENTIFYING LOCATION-BASED SERVICES                                           | 15/834747       |            |
| 4355US01 | SYSTEM AND METHOD FOR THE DISTRIBUTED APPROVAL OF IMAGE BASED CLAIMS                                  | 62/595666       |            |
| 1946US02 | SYSTEMS AND METHODS FOR MONITORING SHOPPING CART WHEELS                                               | 15/835958       |            |
| 4684US01 | SYSTEMS AND METHODS FOR A CUSTOMER FEEDBACK CLASSIFICATION SYSTEM                                     | 62/596878       |            |
| 4686US01 | SYSTEMS AND METHODS FOR AUTOMATED CLASSIFICATION OF REGULATORY REPORTS                                | 62/596879       |            |
| 4685US01 | SYSTEM AND METHOD FOR THE DETECTION AND VISUALIZATION OF REPORTED ETHICS CASES WITHIN AN ORGANIZATION | 62/596989       |            |
| 4687US01 | SYSTEM AND METHOD FOR THE DETECTION AND REPORTING OF OCCUPATIONAL SAFETY INCIDENTS                    | 62/596991       |            |
| 569US03  | SYSTEMS AND METHODS FOR SOFTWARE SCANNING TOOL                                                        | 15/847084       |            |
| 1905US02 | SHOPPING CART WITH ASSISTANCE UNIT                                                                    | 15/846471       |            |

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| 1514US02 | SYSTEMS AND METHODS FOR SORTING MECHANISMS AT A TERMINAL                                         | 15/850711       |            |
| 1515US02 | SYSTEMS AND METHODS FOR SORTING MECHANISMS AT A TERMINAL                                         | 15/850823       |            |
| 1526US02 | INVENTORY MONITORING SYSTEM AND ASSOCIATED METHODS                                               | 15/850014       |            |
| 1527US02 | INVENTORY MONITORING SYSTEM WITH VISUAL INDICATOR AND ASSOCIATED METHODS                         | 15/849998       |            |
| 1689US02 | DETECTION SYSTEM FOR UNSAFE ACTIVITY AT A SHELVING UNIT                                          | 15/850797       |            |
| 1735US02 | TASK-INDICATING SHELF                                                                            | 15/849976       |            |
| 1850US02 | SHOPPING CART WITH STERILIZATION MECHANISM                                                       | 15/849950       |            |
| 092US04  | SECURITY BYPASS ENVIRONMENT FOR CIRCUMVENTING A SECURITY APPLICATION IN A COMPUTING ENVIRONMENT  | 15/852494       |            |
| 2168US01 | DIGITAL WALLET MANAGEMENT SYSTEM                                                                 | 62/609595       |            |
| 3147US01 | CONTAINER DELIVERY SYSTEM                                                                        | 62/610454       |            |
| 3498US01 | SEAL PRINTING SYSTEM                                                                             | 62/610466       |            |
| 1690US02 | SYSTEM AND METHODS FOR IDENTIFYING POSITIONS OF PHYSICAL OBJECTS BASED ON SOUNDS                 | 15/860096       |            |
| 2323US01 | SYSTEMS AND METHODS FOR DYNAMICALLY RE-ALLOCATING STORAGE CONTAINERS                             | 62/613915       |            |
| 1810US01 | SYSTEMS AND METHODS FOR A ROUTING SYSTEM                                                         | 15/866449       |            |
| 4710US01 | APPARATUS FOR SECURING A CAMERA TO A POINT-OF-SALE DEVICE                                        | 62/616305       |            |
| 1621US02 | SYSTEMS AND METHODS FOR DELIVERY VEHICLE MONITORING                                              | 15/869441       |            |
| 1485US02 | MOLD INHIBITING PACKAGE AND ASSOCIATED METHODS FOR FABRICATING AND PACKAGING                     | 15/869458       |            |
| 2715US01 | SYSTEMS AND METHODS FOR KEY EXCHANGE IN BLOCKCHAIN                                               | 62/616835       |            |
| 1623US02 | SYSTEMS AND METHODS FOR MONITORING HOME INVENTORY                                                | 15/874366       |            |
| 1525US02 | SYSTEMS, DEVICES, AND METHODS FOR FORMING THREE-DIMENSIONAL PRODUCTS WITH EMBEDDED RFID ELEMENTS | 15/876519       |            |
| 2050US02 | SYSTEMS, DEVICES, AND METHODS FOR LABEL-FREE SHIPPING                                            | 15/877073       |            |
| 1832US02 | PAINT MIXING SYSTEM                                                                              | 15/876939       |            |
| 1868US02 | ELECTRONIC SHELF-LABEL SYSTEM                                                                    | 15/876611       |            |

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| 2017US02 | SYSTEMS, DEVICES, AND METHODS FOR IN-FIELD AUTHENTICATING OF AUTONOMOUS ROBOTS                | 15/877514       |            |
| 1635US02 | VIRTUAL RETAIL SHOWROOM SYSTEM                                                                | 15/877517       |            |
| 1637US02 | SYSTEMS AND METHODS FOR A VIRTUAL REALITY SHOWROOM WITH AUTONOMOUS STORAGE AND RETRIEVAL      | 15/877523       |            |
| 1747US02 | SYSTEM AND METHOD FOR ASSESSING WAIT TIMES IN A FACILITY                                      | 15/878051       |            |
| 4723US01 | CONVERTIBLE APPAREL RACK                                                                      | 62/620792       |            |
| 1684US02 | SHOPPING CART WITH AN RFID INTERFACE AND ASSOCIATED SYSTEMS AND METHODS                       | 15/878799       |            |
| 1685US02 | SHOPPING CART AND ASSOCIATED SYSTEMS AND METHODS                                              | 15/878803       |            |
| 1686US02 | SHOPPING CART WITH AN RFID INTERFACE AND ASSOCIATED SYSTEMS AND METHODS                       | 15/878807       |            |
| 2014US02 | SYSTEMS, DEVICES, AND METHODS FOR DETERMINING RELOCATION DESTINATIONS FOR DISTRIBUTED OBJECTS | 15/878992       |            |
| 2052US02 | STORAGE CONTAINER WITH TEMPERATURE CONTROL                                                    | 15/878763       |            |
| 2119US02 | INSULATED BAG ROLL SYSTEM                                                                     | 15/878775       |            |
| 1687US02 | SHOPPING CART WITH RFID AND BIOMETRIC COMPONENTS AND ASSOCIATED SYSTEMS AND METHODS           | 15/879589       |            |
| 1636US02 | A VOICE ACTIVATED ASSISTANCE SYSTEM                                                           | 15/879684       |            |
| 1641US02 | VOICE ACTIVATED UNMANNED AERIAL VEHICLE (UAV) ASSISTANCE SYSTEM                               | 15/879591       |            |
| 1948US02 | TEMPERATURE CONTROLLED-SHOPPING CART SYSTEM                                                   | 15/879629       |            |
| 1869US02 | DISTRIBUTED AUTONOMOUS ROBOT SYSTEMS AND METHODS                                              | 15/880706       |            |
| 1871US02 | DISTRIBUTED AUTONOMOUS ROBOT INTERFACING SYSTEMS AND METHODS                                  | 15/880708       |            |
| 1870US02 | SYSTEMS AND METHODS FOR DISTRIBUTED AUTONOMOUS ROBOT INTERFACING USING LIVE IMAGE FEEDS       | 15/880713       |            |
| 1872US02 | DISTRIBUTED AUTONOMOUS ROBOT SYSTEMS AND METHODS WITH RFID TRACKING                           | 15/880719       |            |
| 1873US02 | SYSTEMS AND METHODS FOR RESOLVING ISSUES IN A DISTRIBUTED AUTONOMOUS ROBOT SYSTEM             | 15/880722       |            |

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| 1733US02 | SYSTEM AND METHOD FOR LOCATING FIXTURES USING RF ANTENNAS                                         | 15/880733       |            |
| 2049US02 | AUTONOMOUS UAV RETRIEVAL SYSTEM                                                                   | 15/882084       |            |
| 2056US02 | LASER-GUIDED UAV DELIVERY SYSTEM                                                                  | 15/882100       |            |
| 2059US02 | TEMPERATURE-CONTROLLED UAV STORAGE SYSTEM                                                         | 15/882116       |            |
| 843US02  | SYSTEMS AND METHODS FOR A SPECIALIZED COMPUTER FILE SYSTEM                                        | 15/882357       |            |
| 947US02  | SYSTEMS AND METHODS FOR DISPLAYING AN ITEM IN A SELECTED STORAGE LOCATION USING AUGMENTED REALITY | 15/882658       |            |
| 2158US02 | SYSTEMS AND METHODS FOR INTEGRATING ORDERED SERVICES                                              | 15/882675       |            |
| 2186US02 | SYSTEMS AND METHODS FOR IDENTIFYING AND DISPLAYING OPTIMAL LOCATIONS FOR A GARDEN                 | 15/882979       |            |
| 1821US02 | SYSTEMS AND METHODS FOR EMPLOYEE TIME RECORDING                                                   | 15/883396       |            |
| 2048US02 | REFRIGERATED BLANKET FOR COLD PRODUCT TRANSPORT                                                   | 15/883344       |            |
| 1736US02 | AUTOMATED SHELF SENSING SYSTEM                                                                    | 15/883362       |            |
| 1391US02 | UNMANNED AERIAL/GROUND VEHICLE (UAGV) DETECTION SYSTEM AND METHOD                                 | 15/883346       |            |
| 186US04  | MERCHANDISE EVENT MONITORING VIA WIRELESS TRACKING                                                | 15/885992       |            |
| 2761US01 | DISTRIBUTED SENSOR SYSTEMS AND METHODS FOR INVENTORY CONTROL                                      | 15/890999       |            |
| 4474US01 | DISTRIBUTED SENSOR SYSTEM AND METHOD FOR INVENTORY MANAGEMENT AND PREDICTIVE REPLENISHMENT        | 15/891005       |            |