

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
WAL-MART STORES, INC.	01/31/2018
RECEIVING PARTY DATA	
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16845428
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ATTORNEY DOCKET NUMBER:	8842-148982-US_615US04
NAME OF SUBMITTER:	STEVEN M. FREELAND
SIGNATURE:	/Steven M. Freeland, Reg.# 42555/
DATE SIGNED:	04/14/2020
Total Attachments: 67	
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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 8th Street, Bentonville, Arkansas 72716, USA, (“**Assignor**”), and Walmart Apollo, LLC, 702 Southwest 8th Street, Bentonville, Arkansas 72716, USA, (“**Assignee**”), the assignee of certain assets of Assignor pursuant to the INTERCOMPANY AGREEMENT by and between Assignee and Assignor, dated as of January 31, 2018 (the “**Patent Agreement**”).

WHEREAS, under the terms of the Patent Agreement, Assignor has conveyed, transferred and assigned and does hereby convey, transfer and assign to Assignee, certain intellectual property of Assignor as listed on 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]

SCHEDULE 1**Assigned Patents and Applications**

Ref. No.	Title	Application No.	Patent No.
8842-91773	UNIVERSAL RFID TAGS AND MANUFACTURING METHODS	61/159,042	
8842-92289	APPARATUS AND METHOD FACILITATING COMMUNICATION BETWEEN COMPONENTS OF A RADIO FREQUENCY IDENTIFICATION SYSTEM	61/086,925	
8842-92362	METHOD AND APPARATUS FOR AUTOMATED SHOPPER CHECKOUT USING RADIO FREQUENCY IDENTIFICATION TECHNOLOGY	12/267,068	8,781,908
8842-96081	APPARATUS AND METHOD FACILITATING COMMUNICATION BETWEEN COMPONENTS OF A RADIO FREQUENCY IDENTIFICATION SYSTEM	12/538,069	8,432,258
8842-98082	UNIVERSAL RFID TAGS AND MANUFACTURING METHODS	12/721,527	8,286,884
8842-98182	METHOD AND APPARATUS PERTAINING TO AN RFID TAG READER ANTENNA ARRAY	12/900,191	8,669,915
8842-98183	RFID TAG SENSORS AND METHODS	12/884,097	8,286,887
8842-98184	METHOD AND APPARATUS PERTAINING TO MODULE-BASED SCANNING OF RFID TAGS	61/365,294	
8842-98185	METHOD AND APPARATUS PERTAINING TO USE OF A PLURALITY OF DIFFERENT RFID TAG INTERROGATION MODES	12/900,201	8,878,649
8842-98186	METHOD AND APPARATUS PERTAINING TO FACILITATING THE READING OF RFID TAGS	61/365,166	
8842-98202	METHOD AND APPARATUS PERTAINING TO FACILITATING THE READING OF RFID TAGS	12/844,499	
8842-98203	METHOD AND APPARATUS PERTAINING TO MODULE-BASED SCANNING OF RFID TAGS	12/844,483	
8842-99401	METHODS AND APPARATUS PERTAINING TO RADIO-FREQUENCY IDENTIFICATION TAGS	61/479,667	
8842-99517	METHOD AND APPARATUS TO FACILITATE SETTING RFID TAGS TO A PARTICULAR READ STATE	13/193,479	8,860,557
8842-100816	METHOD AND APPARATUS PERTAINING TO RADIO-FREQUENCY IDENTIFICATION TAGS	13/398,492	9,892,358

8842-100891	METHOD AND APPARATUS PERTAINING TO A PLACEMENT OF A RADIO FREQUENCY IDENTIFICATION TAG	13/437,627	9,487,322
8842-101764	METHOD AND APPARATUS PERTAINING TO RFID TAG TAG-TYPE IDENTIFIERS	13/442,472	9,569,707
8842-103528	RFID TAG SENSORS AND METHODS	13/653,331	8,505,829
8842-103529	UNIVERSAL RFID TAGS AND METHODS	13/653,324	8,544,758
8842-130347	UNIVERSAL RFID TAGS AND METHODS	13/828,821	8,857,724
8842-130416	METHOD AND APPARATUS PERTAINING TO INSTALLATION OF AN RFID-TAG READER SYSTEM	13/803,690	9,135,481
8842-130417	METHOD AND APPARATUS PERTAINING TO THE USE OF STATISTICS-BASED RFID-TAG INFORMATION	13/803,765	
8842-130418	METHOD AND APPARATUS PERTAINING TO RFID TAG-BASED USER ASSERTIONS	13/804,393	9,400,900
8842-130419	METHOD AND APPARATUS PERTAINING TO USE OF BOTH OPTICAL AND ELECTRONIC PRODUCT CODES	13/804,653	9,053,615
8842-130420	METHOD AND APPARATUS PERTAINING TO MONITORING ITEM SOURCE LOCATIONS	13/804,772	9,704,124
8842-130421	METHOD AND APPARATUS PERTAINING TO USE OF MULTIPLE SESSIONS WITH RFID TAGS	13/804,970	9,158,950
8842-130422	METHOD AND APPARATUS PERTAINING TO THE USE OF GROUP RFID TAG INFORMATION	13/826,302	9,123,016
8842-130646	METHOD AND APPARATUS PERTAINING TO THE IDENTIFICATION OF PHYSICAL-LOCAL DISCREPANCIES IN STATISTICS-BASED RFID-TAG INFORMATION	13/826,442	9,310,466
8842-130740	METHOD AND APPARATUS PERTAINING TO PRECONFIGURING IN FACILITATING THE READING OF RFID TAGS	13/875,608	
8842-130741	APPARATUS AND METHOD PERTAINING TO CONVEYING INFORMATION VIA AN RFID TRANSCEIVER	13/870,647	9,230,145
8842-130742	APPARATUS AND METHOD PERTAINING TO SWITCHING RFID TRANSCEIVER READ STATES	13/871,572	9,773,134
8842-130968	APPARATUS AND METHOD OF DETERMINING A LIKELIHOOD OF TASK COMPLETION FROM INFORMATION	14/092,461	9,251,488

	RELATING TO THE READING OF RFID TAGS		
8842-130969	METHOD AND APPARATUS PERTAINING TO FACILITATING THE READING OF RFID TAGS	14/032,560	
8842-131258	RFID TAG SENSORS AND METHODS	13/943,695	8,857,725
8842-131456	SECURE DELIVERY RECEPTACLE	14/052,102	
8842-131660	APPARATUS AND METHOD FOR DETERMINING AN OPEN STATUS OF A CONTAINER USING RFID TAG DEVICES	61/974,381	
8842-132357	METHOD AND APPARATUS PERTAINING TO AN RFID TAG READER ANTENNA ARRAY	14/163,231	9,640,875
8842-132461	APPARATUS AND METHOD OF IDENTIFYING AN OVERSTATED PERPETUAL INVENTORY IN A RETAIL SPACE	62/005,827	
8842-132462	APPARATUS AND METHOD FOR FACILITATING A SOCIAL GROUP SHOPPING EXPERIENCE	62/005,864	
8842-132464	APPARATUS AND METHOD FOR AGGREGATING LIKE PRODUCTS FOR CUSTOMER PRODUCT ORDERS	62/005,833	
8842-132826	APPARATUS AND METHOD FOR BUILDING A SHOPPING LIST WITH A SENSOR UNIT	62/029,978	
8842-132827	APPARATUS AND METHOD FOR ASSEMBLING AN ELECTRICAL WHIP	62/029,749	
8842-132828	APPARATUS AND METHOD FOR MAINTAINING AND STORING A LOG OF STATUS INFORMATION	62/030,929	
8842-132829	METHOD AND APPARATUS FOR A VIRTUAL TOOL TO SELECTIVELY MODIFY VARIABLES	62/030,941	
8842-132830	METHOD AND APPARATUS FOR AUTOMATICALLY DISPLAYING MULTIPLE PRESENTATIONS FOR MULTIPLE USERS	62/030,952	
8842-132831	METHOD AND APPARATUS FOR RECORDING USER ACTIONS DURING A COURSE OF RENDERING A SERIES OF VISUALIZATIONS	62/030,962	
8842-132832	APPARATUS AND METHOD FOR A SELF-SERVICE DRUG LOCATOR KIOSK	62/029,996	
8842-132833	APPARATUS AND METHOD FOR SELF-SERVICE VOUCHER CREATION	62/031,094	
8842-132834	APPARATUS AND METHOD OF IDENTIFYING PRODUCTS AND CORRESPONDING PROJECTS FOR POTENTIAL MARKETING	62/030,045	
8842-132997	APPARATUS AND METHOD OF SCANNING PRODUCTS AND	62/061,067	

	INTERFACING WITH A CUSTOMER'S PERSONAL MOBILE DEVICE		
8842-132997	APPARATUS AND METHOD OF SCANNING PRODUCTS AND INTERFACING WITH A CUSTOMER'S PERSONAL MOBILE DEVICE	15/517,373	
8842-133156	METHOD AND APPARATUS FOR AUTOMATED SHOPPER CHECKOUT USING RADIO FREQUENCY IDENTIFICATION TECHNOLOGY	14/301,225	
8842-133377	TRI-OPTIC SCANNER	13/183,607	8,944,322
8842-133505	E-WALLET	60/954,948	
8842-133506	SYSTEMS, METHODS AND APPARATUSES USING RFID TECHNOLOGY	60/957,767	
8842-133507	CHECKOUT STATION	61/737,603	
8842-133513	RFID THEFT PREVENTION SYSTEM	11/837,818	7,920,063
8842-133514	SYSTEM AND METHOD OF CENTRALIZED CUSTOMER INFORMATION MANAGEMENT FOR ENHANCED SHOPPING EXPERIENCE	12/187,193	8,812,370
8842-133515	SYSTEM AND METHOD OF ENHANCED RFID TRANSPORT DEVICE SENSOR NETWORK	12/197,059	8,120,482
8842-133516	SYSTEM, METHOD, AND APPARATUS OF RFID POINT OF SALE	12/197,028	7,997,486
8842-133517	RFID PROMOTIONAL COMPLIANCE	60/957,758	
8842-133518	RFID PROMOTIONAL COMPLIANCE	12/196,994	8,002,181
8842-133519	RETAIL CUSTOMER INTERFACE DEVICE	61/042,929	
8842-133520	SYSTEM, METHOD, AND APPARATUS OF A CUSTOMER INTERFACE DEVICE	12/418,382	8,091,780
8842-133521	MULTI-DIRECTIONAL RFID READER FOR CONTROLLING INVENTORY AND SHELF STOCK	11/624,779	7,667,602
8842-133522	SHOE	29/382,971	D648,926
8842-133523	CHECKOUT STATION	13/331,541	9,275,526
8842-133524	CHECKOUT STATION	13/799,276	9,002,733
8842-133527	RFID PROMOTIONAL COMPLIANCE	60/996,262	
8842-133928	SYSTEM, APPARATUS AND METHOD FOR SEQUENCING OBJECTS HAVING RFID TAGS ON A MOVING CONVEYOR	62/098,576	
8842-133928	SYSTEM, APPARATUS AND METHOD FOR SEQUENCING OBJECTS HAVING RFID TAGS ON A MOVING CONVEYOR	15/534,382	

8842-134112	APPARATUS AND METHOD OF MAINTAINING ACCURATE PERPETUAL INVENTORY INFORMATION	62/098,657	
8842-134112	APPARATUS AND METHOD OF MAINTAINING ACCURATE PERPETUAL INVENTORY INFORMATION	15/541,283	
8842-134113	SYSTEM AND METHOD FOR PROVIDING FRESHNESS INFORMATION	62/098,903	
8842-134113	SYSTEM AND METHOD FOR PROVIDING FRESHNESS INFORMATION	15/540,856	
8842-134114	SYSTEM AND METHOD FOR MONITORING GAS EMISSION OF PERISHABLE PRODUCTS	62/098,948	
8842-134114	SYSTEM AND METHOD FOR MONITORING GAS EMISSION OF PERISHABLE PRODUCTS	15/541,160	
8842-134155	ASSIGNMENT OF A MOTORIZED PERSONAL ASSISTANCE APPARATUS	62/152,421	
8842-134155	ASSIGNMENT OF A MOTORIZED PERSONAL ASSISTANCE APPARATUS	15/061,980	
8842-134158	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES AND METHODS	62/129,726	
8842-134158	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES AND METHODS	15/060,953	
8842-134161	SHOPPING FACILITY ASSISTANCE SYSTEM AND METHOD HAVING A MOTORIZED TRANSPORT UNIT THAT SELECTIVELY LEADS OR FOLLOWS A USER WITHIN A SHOPPING FACILITY	62/152,465	
8842-134161	SHOPPING FACILITY ASSISTANCE SYSTEM AND METHOD HAVING A MOTORIZED TRANSPORT UNIT THAT SELECTIVELY LEADS OR FOLLOWS A USER WITHIN A SHOPPING FACILITY	15/061,848	
8842-134162	APPARATUS AND METHOD OF OBTAINING LOCATION INFORMATION OF A MOTORIZED TRANSPORT UNIT	62/138,877	
8842-134162	APPARATUS AND METHOD OF OBTAINING LOCATION INFORMATION OF A MOTORIZED TRANSPORT UNIT	15/061,406	
8842-134208	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES AND METHODS THAT EMPLOY VOICE INPUT	62/152,440	
8842-134208	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES AND METHODS THAT EMPLOY VOICE INPUT	15/061,686	9,757,002
8842-134209	MULTI-SHOPPER COOPERATIVE SHOPPING EXPERIENCE APPARATUS AND METHOD	62/138,885	
8842-134209	MULTI-SHOPPER COOPERATIVE SHOPPING EXPERIENCE APPARATUS AND METHOD	15/061,792	
8842-134213	SYSTEM AND METHOD FOR PROVIDING A DYNAMIC SHOPPING INTERFACE	62/138,674	

8842-134213	SYSTEM AND METHOD FOR PROVIDING A DYNAMIC SHOPPING INTERFACE	15/561,802	
8842-134249	SHOPPING SPACE ROUTE GUIDANCE SYSTEMS, DEVICES AND METHODS	62/152,630	
8842-134249	SHOPPING SPACE ROUTE GUIDANCE SYSTEMS, DEVICES AND METHODS	15/061,671	
8842-134250	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES AND METHODS	62/171,822	
8842-134250	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES AND METHODS	15/061,801	
8842-134268	APPARATUS AND METHOD OF MONITORING PRODUCT PLACEMENT WITHIN A SHOPPING FACILITY	62/129,727	
8842-134268	APPARATUS AND METHOD OF MONITORING PRODUCT PLACEMENT WITHIN A SHOPPING FACILITY	15/061,265	
8842-134269	RECHARGING APPARATUS AND METHOD	62/152,711	
8842-134269	RECHARGING APPARATUS AND METHOD	15/061,285	
8842-134322	AUTOMATED SHOPPING APPARATUS AND METHOD IN RESPONSE TO CONSUMPTION	62/152,699	
8842-134322	AUTOMATED SHOPPING APPARATUS AND METHOD IN RESPONSE TO CONSUMPTION	15/135,325	
8842-134365	CONSUMER DEMAND-BASED INVENTORY MANAGEMENT SYSTEM	62/147,221	
8842-134365	CONSUMER DEMAND-BASED INVENTORY MANAGEMENT SYSTEM	15/096,660	9,659,275
8842-134367	OVERSTOCK INVENTORY MANAGEMENT SYSTEM	62/147,255	
8842-134367	OVERSTOCK INVENTORY MANAGEMENT SYSTEM	15/096,731	
8842-134368	METHOD AND APPARATUS FOR UTILIZING CUSTOMER ACTIONS FOR STORE INTELLIGENCE AND MANAGEMENT	62/165,857	
8842-134368	METHOD AND APPARATUS FOR UTILIZING CUSTOMER ACTIONS FOR STORE INTELLIGENCE AND MANAGEMENT	15/155,676	
8842-134369	APPARATUS TO PRESENT LEADERBOARDS FOR ASSOCIATE-LEVEL PERFORMANCE STATISTICS	62/216,864	
8842-134369	APPARATUS TO PRESENT LEADERBOARDS FOR ASSOCIATE-LEVEL PERFORMANCE STATISTICS	15/261,266	
8842-134370	PRODUCT IDENTIFIER SYSTEMS AND METHODS	62/142,973	
8842-134370	PRODUCT IDENTIFIER SYSTEMS AND METHODS	15/087,595	

8842-134371	CUSTOMER-TRIGGERED STORE MANAGEMENT	62/167,075	
8842-134371	CUSTOMER-TRIGGERED STORE MANAGEMENT	15/164,025	
8842-134372	PRODUCT PLACEMENT MONITORING APPARATUS AND METHOD	62/148,115	
8842-134372	PRODUCT PLACEMENT MONITORING APPARATUS AND METHOD	15/091,446	
8842-134373	METHOD AND APPARATUS FOR ACCESS CONTROL	62/161,576	
8842-134373	METHOD AND APPARATUS FOR ACCESS CONTROL	15/072,002	
8842-134374	METHOD AND APPARATUS FOR HOLDING CONTAINERS OPEN	62/152,140	
8842-134374	METHOD AND APPARATUS FOR HOLDING CONTAINERS OPEN	15/134,593	9,694,840
8842-134375	METHOD, APPARATUS AND SYSTEM FOR DETERMINING ACCURACY OF DELIVERIES AND RELATED DOCUMENTATION AT TIME OF DELIVERY	62/192,398	
8842-134375	METHOD, APPARATUS AND SYSTEM FOR DETERMINING ACCURACY OF DELIVERIES AND RELATED DOCUMENTATION AT TIME OF DELIVERY	15/195,166	
8842-134446	SYSTEM AND METHOD FOR PLACING AN ORDER USING A LOCAL DEVICE	15/101,376	
8842-134446	SYSTEM AND METHOD FOR PLACING AN ORDER USING A LOCAL DEVICE VIA SCANNING A PRODUCT CODE	61/910,875	
8842-134447	SYSTEM AND METHOD FOR PROVIDING PREREGISTERED METHODS OF DISPENSE FOR PRODUCTS IN AN ORDER	61/910,889	
8842-134448	SYSTEM AND METHOD FOR PROVIDING A SINGLE PAYMENT FOR A MULTI-CHANNEL ORDER	61/910,898	
8842-134449	SYSTEM AND METHOD FOR CONDUCTING A MULTI-CHANNEL ORDER	15/101,379	
8842-134449	SYSTEM AND METHOD FOR PROVIDING A MULTI-CHANNEL VIRTUAL SHOPPING BASKET	61/910,906	
8842-134452	HTTP PARALLEL PROCESSING ROUTER	13/653,801	8,972,526
8842-134453	SYSTEMS AND METHODS FOR REPLENISHMENT OF PRODUCTS IN MULTIPLE LOCATIONS	14/134,610	
8842-134454	SYSTEM AND METHOD FOR SUPPLY CHAIN MANAGEMENT	62/030,711	
8842-134455	SYSTEMS AND METHODS FOR DEMAND TRACKING IN A RETAIL ENVIRONMENT	62/030,909	

8842-134456	RETAIL INVENTORY MANAGEMENT SERVICES THROUGH PERSONAL MOBILE DEVICES	13/895,538	9,830,573
8842-134457	ELECTRONIC SHOPPING SYSTEM UTILIZING MULTIPLE CONFIGURABLE ITEM ORDERS	14/068,204	
8842-134458	CONTENT BASED ROUTING ARCHITECTURE SYSTEM AND METHOD	61/714,094	
8842-134459	CONTENT BASED ROUTING ARCHITECTURE SYSTEM AND METHOD	14/054,433	9,185,021
8842-134460	SYSTEM AND METHOD FOR DETERMINING INVENTORY LOCATIONS	13/757,294	8,972,285
8842-134461	APPARATUS TO USE INFORMATION REGARDING REGULATIONS TO CONTROL THE SELLING OF PRODUCTS VIA RETAIL SHOPPING FACILITIES	62/182,350	
8842-134461	APPARATUS TO USE INFORMATION REGARDING REGULATIONS TO CONTROL THE SELLING OF PRODUCTS VIA RETAIL SHOPPING FACILITIES	15/158,115	
8842-134462	SYSTEM AND METHOD FOR A VIRTUAL INVENTORY PROGRAM FOR WIRELESS SALES AND SERVICES	12/394,985	8,024,230
8842-134463	SYSTEM AND METHOD FOR IDENTIFYING AN ALTERNATIVE PROVIDER OF TELECOMMUNICATIONS SERVICES	11/156,977	8,175,966
8842-134464	MULTI-CHANNEL WIRELESS PRE-APPROVAL SYSTEM	13/836,652	
8842-134465	SYSTEM AND METHOD FOR IDENTIFYING AN ALTERNATIVE PROVIDER OF TELECOMMUNICATION SERVICES	13/442,626	
8842-134466	APPARATUS, SYSTEM, AND METHOD TO STOCK PRODUCT AND MAINTAIN INVENTORY	13/208,965	
8842-134467	MOBILE SOLUTION FOR PURCHASE ORDERS	61/947,270	
8842-134492	METHOD AND APPARATUS TO USE AN ADDITIVE MANUFACTURING PLATFORM	62/165,571	
8842-134492	METHOD AND APPARATUS TO USE AN ADDITIVE MANUFACTURING PLATFORM	15/576,545	
8842-134493	INVENTORY INFORMATION DISTRIBUTION SYSTEMS, DEVICES AND METHODS	62/150,755	
8842-134493	INVENTORY INFORMATION DISTRIBUTION SYSTEMS, DEVICES AND METHODS	15/568,207	
8842-134534	CHECKOUT STATION	14/636,669	

8842-134564	MOBILE SOLUTION FOR PURCHASE ORDERS	14/637,210	9,734,522
8842-134566	HTTP PARALLEL PROCESSING ROUTER	14/603,476	9,525,719
8842-134572	METHOD AND APPARATUS FOR DETECTING AND/OR UTILIZING SALES ANOMALIES TO IMPROVE STORE MANAGEMENT	62/182,394	
8842-134572	METHOD AND APPARATUS FOR DETECTING AND/OR UTILIZING SALES ANOMALIES TO IMPROVE STORE MANAGEMENT	15/184,358	
8842-134573	SHOPPING FACILITY ASSISTANCE OBJECT DETECTION SYSTEMS, DEVICES AND METHODS	62/157,388	
8842-134573	SHOPPING FACILITY ASSISTANCE OBJECT DETECTION SYSTEMS, DEVICES AND METHODS	15/061,325	9,801,517
8842-134574	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES AND METHODS	62/152,610	
8842-134574	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES AND METHODS	15/061,722	
8842-134575	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES AND METHODS TO SUPPORT REQUESTING IN-PERSON ASSISTANCE	62/152,667	
8842-134575	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES AND METHODS TO SUPPORT REQUESTING IN-PERSON ASSISTANCE	15/061,770	
8842-134576	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES AND METHODS TO SUPPORT RETRIEVAL OF A MOBILE ITEM CONTAINER	62/165,579	
8842-134589	OVERRIDING CONTROL OF MOTORIZED TRANSPORT UNIT SYSTEMS, DEVICES AND METHODS	62/165,416	
8842-134589	OVERRIDING CONTROL OF MOTORIZED TRANSPORT UNIT SYSTEMS, DEVICES AND METHODS	15/061,350	
8842-134595	FRESH PRODUCTION FORECASTING METHODS AND SYSTEMS	62/196,245	
8842-134595	FRESH PRODUCTION FORECASTING METHODS AND SYSTEMS	15/206,538	
8842-134612	ITEM MONITORING SYSTEM AND METHOD	62/129,729	
8842-134612	ITEM MONITORING SYSTEM AND METHOD	15/061,443	
8842-134945	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES AND METHODS PERTAINING TO MOVEMENT OF A MOBILE RETAIL PRODUCT DISPLAY	62/165,586	
8842-134945	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES AND METHODS	15/061,805	

	PERTAINING TO MOVEMENT OF A MOBILE RETAIL PRODUCT DISPLAY		
8842-135208	APPARATUS AND METHOD FOR DETERMINING AN OPEN STATUS OF A CONTAINER USING RFID TAG DEVICES	15/300,915	
8842-135287	APPARATUS TO QUERY A RELATIONAL DATABASE USING TEXT-BASED QUERIES	62/187,518	
8842-135287	APPARATUS TO QUERY A RELATIONAL DATABASE USING TEXT-BASED QUERIES	15/187,885	
8842-135288	SYSTEMS AND METHODS TO FORECAST AND IMPROVE PRODUCT ON-SHELF AVAILABILITY	62/201,181	
8842-135288	SYSTEMS AND METHODS TO FORECAST AND IMPROVE PRODUCT ON-SHELF AVAILABILITY	15/229,574	
8842-135289	PRODUCTIVITY EVALUATION SYSTEMS AND METHODS	62/201,190	
8842-135289	PRODUCTIVITY EVALUATION SYSTEMS AND METHODS	15/229,858	
8842-135290	OUT OF STOCK ITEM TRACKING AT RETAIL SALES FACILITIES	62/200,431	
8842-135290	OUT OF STOCK ITEM TRACKING AT RETAIL SALES FACILITIES	15/202,897	9,911,097
8842-135291	OVERSTOCK INVENTORY SORTING AT RETAIL SALES FACILITIES	62/200,518	
8842-135291	OVERSTOCK INVENTORY SORTING AT RETAIL SALES FACILITIES	15/202,956	9,852,396
8842-135293	OVERSTOCK INVENTORY MANAGEMENT AT RETAIL SALES FACILITIES	62/201,034	
8842-135293	OVERSTOCK INVENTORY MANAGEMENT AT RETAIL SALES FACILITIES	15/203,482	9,858,547
8842-135294	METHOD AND APPARATUS FOR USING LABEL DATA TO ASSIST IN PERFORMING A RETAIL STORE FUNCTION	62/234,901	
8842-135294	METHOD AND APPARATUS FOR USING LABEL DATA TO ASSIST IN PERFORMING A RETAIL STORE FUNCTION	15/282,122	
8842-135308	APPARATUS AND METHOD TO DETERMINE WHETHER TO UNLOCK A DELIVERED-PACKAGE VAULT	62/194,126	
8842-135308	APPARATUS AND METHOD TO DETERMINE WHETHER TO UNLOCK A DELIVERED-PACKAGE VAULT	15/183,237	9,858,738
8842-135309	METHOD AND APPARATUS TO DYNAMICALLY CONTROL HOW OFTEN TEMPERATURE READINGS ARE RECEIVED	62/185,474	

8842-135309	METHOD AND APPARATUS TO DYNAMICALLY CONTROL HOW OFTEN TEMPERATURE READINGS ARE RECEIVED	15/183,265	
8842-135310	APPARATUS AND METHOD TO DETERMINE A FROZEN STATE OF AN OBJECT AS A FUNCTION OF AN RFID TAG RECEPTION PARAMETER	62/185,480	
8842-135310	APPARATUS AND METHOD TO DETERMINE A FROZEN STATE OF AN OBJECT AS A FUNCTION OF AN RFID TAG RECEPTION PARAMETER	15/180,688	
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8842-135311	PRODUCT DELIVERY CONTROL SYSTEMS AND METHODS	15/184,321	
8842-135312	REMOTE TEMPERATURE CONTROL OF PRODUCT STORAGE UNIT METHODS AND APPARATUSES	62/182,360	
8842-135312	REMOTE TEMPERATURE CONTROL OF PRODUCT STORAGE UNIT METHODS AND APPARATUSES	15/184,356	
8842-135313	APPARATUS AND METHOD FOR UPDATING DIRECTIONS TO A CONTAINER	62/202,714	
8842-135313	APPARATUS AND METHOD FOR UPDATING DIRECTIONS TO A CONTAINER	15/230,094	
8842-135314	APPARATUS AND METHOD FOR COLLECTING CUSTOMER INVENTORY INFORMATION	62/202,717	
8842-135314	APPARATUS AND METHOD FOR COLLECTING CUSTOMER INVENTORY INFORMATION	15/230,132	
8842-135956	SYSTEMS, DEVICES, AND METHODS FOR PROVIDING PASSENGER TRANSPORT	62/202,744	
8842-135956	SYSTEMS, DEVICES, AND METHODS FOR PROVIDING PASSENGER TRANSPORT	15/061,203	
8842-135957	A GRAPHICAL USER INTERFACE AND METHOD AND APPARATUS OF NAVIGATING USING SAME	62/239,631	
8842-135957	GRAPHICAL USER INTERFACE AND METHOD AND APPARATUS OF NAVIGATING USING SAME	15/284,835	
8842-135958	METHODS AND SYSTEMS FOR AUTOMATIC REORDERING OF PREVIOUSLY ORDERED PRODUCTS	62/205,563	
8842-135958	METHODS AND SYSTEMS FOR AUTOMATIC REORDERING OF PREVIOUSLY ORDERED PRODUCTS	15/232,117	
8842-135959	SYSTEMS, DEVICES AND METHODS FOR MONITORING MODULAR COMPLIANCE IN A SHOPPING SPACE	62/205,548	

8842-135959	SYSTEMS, DEVICES AND METHODS FOR MONITORING MODULAR COMPLIANCE IN A SHOPPING SPACE	15/061,908	
8842-135961	SYSTEMS, DEVICES AND METHODS OF CONTROLLING MOTORIZED TRANSPORT UNITS IN FULFILLING PRODUCT ORDERS	62/182,339	
8842-135961	SYSTEMS, DEVICES AND METHODS OF CONTROLLING MOTORIZED TRANSPORT UNITS IN FULFILLING PRODUCT ORDERS	15/061,402	9,896,315
8842-135962	SHOPPING FACILITY ASSISTANCE SYSTEM AND METHOD TO RETRIEVE IN-STORE ABANDONED MOBILE ITEM CONTAINERS	62/194,131	
8842-135962	SHOPPING FACILITY ASSISTANCE SYSTEM AND METHOD TO RETRIEVE IN-STORE ABANDONED MOBILE ITEM CONTAINERS	15/275,009	
8842-135963	METHOD AND APPARATUS FOR TRANSPORTING A PLURALITY OF STACKED MOTORIZED TRANSPORT UNITS	62/175,182	
8842-135963	METHOD AND APPARATUS FOR TRANSPORTING A PLURALITY OF STACKED MOTORIZED TRANSPORT UNITS	15/061,054	9,875,503
8842-135963	METHOD AND APPARATUS FOR TRANSPORTING A PLURALITY OF STACKED MOTORIZED TRANSPORT UNITS	15/836,708	
8842-136020	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES, AND METHODS TO IDENTIFY SECURITY AND SAFETY ANOMALIES	62/194,119	
8842-136020	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES, AND METHODS TO IDENTIFY SECURITY AND SAFETY ANOMALIES	15/061,025	9,875,502
8842-136021	SHOPPING SPACE MAPPING SYSTEMS, DEVICES AND METHODS	62/202,747	
8842-136021	SHOPPING SPACE MAPPING SYSTEMS, DEVICES AND METHODS	15/061,844	9,534,906
8842-136022	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES, AND METHODS TO DISPATCH AND RECOVER MOTORIZED TRANSPORT UNITS THAT EFFECT REMOTE DELIVERIES	62/194,121	
8842-136022	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES, AND METHODS TO DISPATCH AND RECOVER MOTORIZED TRANSPORT UNITS THAT EFFECT REMOTE DELIVERIES	15/061,677	

8842-136023	SYSTEMS, DEVICES AND METHODS OF PROVIDING CUSTOMER SUPPORT IN LOCATING PRODUCTS	62/185,478	
8842-136024	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES AND METHODS TO DRIVE MOVABLE ITEM CONTAINERS	62/194,127	
8842-136024	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES AND METHODS TO DRIVE MOVABLE ITEM CONTAINERS	15/061,474	9,908,760
8842-136025	SYSTEMS, DEVICES AND METHODS FOR DETERMINING ITEM AVAILABILITY IN A SHOPPING SPREE	62/214,824	
8842-136025	SYSTEMS, DEVICES AND METHODS FOR DETERMINING ITEM AVAILABILITY IN A SHOPPING SPREE	15/288,923	
8842-136026	SYSTEMS, DEVICES AND METHODS FOR RESTORING SHOPPING SPACE CONDITIONS	62/214,826	
8842-136026	SYSTEMS, DEVICES AND METHODS FOR RESTORING SHOPPING SPACE CONDITIONS	15/282,951	
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8842-136123	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES, AND METHODS TO FACILITATE RETURNING ITEMS TO THEIR RESPECTIVE DEPARTMENTS	15/275,019	
8842-136124	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES, AND METHODS TO FACILITATE RESPONDING TO A USER'S REQUEST FOR PRODUCT PRICING INFORMATION	62/205,555	
8842-136124	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES, AND METHODS TO FACILITATE RESPONDING TO A USER'S REQUEST FOR PRODUCT PRICING INFORMATION	15/061,688	
8842-136125	TRASH CAN MONITORING SYSTEMS AND METHODS	62/302,547	
8842-136125	TRASH CAN MONITORING SYSTEMS AND METHODS	15/447,175	
8842-136230	APPARATUS AND METHOD FOR AGGREGATING LIKE PRODUCTS FOR CUSTOMER PRODUCT ORDERS	15/315,056	
8842-136231	APPARATUS AND METHOD FOR FACILITATING A SOCIAL GROUP SHOPPING EXPERIENCE	15/315,301	
8842-136232	APPARATUS AND METHOD OF IDENTIFYING AN OVERSTATED PERPETUAL INVENTORY IN A RETAIL SPACE	15/313,870	

8842-136302	SHOPPING ASSISTANCE SYSTEMS, DEVICES AND METHODS TO SUPPORT CUSTOMERS	62/202,671	
8842-136302	SHOPPING ASSISTANCE SYSTEMS, DEVICES AND METHODS TO SUPPORT CUSTOMERS	15/229,666	
8842-136508	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES AND METHODS TO ADDRESS GROUND AND WEATHER CONDITIONS	62/207,858	
8842-136508	SHOPPING FACILITY ASSISTANCE SYSTEMS, DEVICES AND METHODS TO ADDRESS GROUND AND WEATHER CONDITIONS	15/275,047	
8842-136598	METHOD AND APPARATUS TO FACILITATE A PLANNED AUTOMATED ROUTE THROUGH A WAREHOUSE	62/233,174	
8842-136598	METHOD AND APPARATUS TO FACILITATE A PLANNED AUTOMATED ROUTE THROUGH A WAREHOUSE	15/273,828	
8842-136599	APPARATUS AND METHOD FOR SECURING MERCHANDISE WITH OPTICAL LOCK AND KEY	62/239,511	
8842-136599	APPARATUS AND METHOD FOR SECURING MERCHANDISE WITH OPTICAL LOCK AND KEY	15/287,548	
8842-136648	METHOD AND APPARATUS TO FACILITATE THE USE OF ADDITIVE-MANUFACTURING MODELS	62/214,832	
8842-136648	METHOD AND APPARATUS TO FACILITATE THE USE OF ADDITIVE-MANUFACTURING MODELS	15/254,417	
8842-136649	APPARATUS AND METHOD FOR FORMING PURCHASE AGREEMENTS	62/239,557	
8842-136649	APPARATUS AND METHOD FOR FORMING PURCHASE AGREEMENTS	15/286,058	
8842-136650	METHOD AND APPARATUS FOR USING AN ADDITIVE-MANUFACTURING PLATFORM	62/239,681	
8842-136650	METHOD AND APPARATUS FOR USING AN ADDITIVE-MANUFACTURING PLATFORM	15/278,634	
8842-136651	SHOPPING FACILITY TRACK SYSTEM AND METHOD OF ROUTING MOTORIZED TRANSPORT UNITS	62/205,539	
8842-136651	SHOPPING FACILITY TRACK SYSTEM AND METHOD OF ROUTING MOTORIZED TRANSPORT UNITS	15/274,991	
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8842-136763	METHOD AND APPARATUS TO AUTOMATICALLY FACILITATE	15/253,234	

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8842-136764	METHOD AND APPARATUS FOR DISPATCHING AN AIRBORNE DRONE TO CARRY AN ITEM TO A CUSTOMER	15/344,095	
8842-136765	APPARATUS AND METHOD FOR PROVIDING A VIRTUAL SHOPPING SPACE	62/244,669	
8842-136765	APPARATUS AND METHOD FOR PROVIDING A VIRTUAL SHOPPING SPACE	15/299,883	
8842-136766	METHODS AND SYSTEMS IN EVALUATING AND SELECTING A COMBINATION OF SHIPPING PACKAGES	62/212,313	
8842-136766	METHODS AND SYSTEMS IN EVALUATING AND SELECTING A COMBINATION OF SHIPPING PACKAGES	15/251,585	
8842-136813	APPARATUS AND METHOD FOR ASSEMBLING AN ELECTRICAL WHIP	15/328,890	
8842-136833	APPARATUS AND METHOD FOR BUILDING A SHOPPING LIST WITH A SENSOR UNIT	15/329,762	
8842-136834	APPARATUS AND METHOD FOR A SELF-SERVICE DRUG LOCATOR KIOSK	14/811,544	
8842-136835	APPARATUS AND METHOD OF IDENTIFYING PRODUCTS AND CORRESPONDING PROJECTS FOR POTENTIAL MARKETING	14/811,527	
8842-136836	APPARATUS AND METHOD FOR MAINTAINING AND STORING A LOG OF STATUS INFORMATION	14/812,307	
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8842-136838	METHOD AND APPARATUS FOR AUTOMATICALLY DISPLAYING MULTIPLE PRESENTATIONS FOR MULTIPLE USERS	14/812,428	
8842-136839	METHOD AND APPARATUS FOR RECORDING USER ACTIONS DURING A COURSE OF RENDERING A SERIES OF VISUALIZATIONS	14/812,482	
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8842-136902	METHOD TO CARRY AN ITEM WITHIN A RETAIL SHOPPING FACILITY	15/263,477	
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8842-136903	METHOD AND APPARATUS FOR AN AIRBORNE DRONE TRAINING TRACK	15/334,520	
8842-136904	MOBILE RETAIL SYSTEMS AND METHODS OF DISTRIBUTING AND STOCKING THE MOBILE RETAIL SYSTEMS	62/248,898	
8842-136904	MOBILE RETAIL SYSTEMS AND METHODS OF DISTRIBUTING AND STOCKING THE MOBILE RETAIL SYSTEMS	15/335,841	
8842-136905	SYSTEMS AND METHODS OF PRIORITIZING PRODUCTS DURING UNLOADING OF DELIVERY VEHICLES	62/251,356	
8842-136905	SYSTEMS AND METHODS OF PRIORITIZING PRODUCTS DURING UNLOADING OF DELIVERY VEHICLES	15/342,758	
8842-136906	METHODS AND SYSTEMS FOR PRIORITIZING RETRIEVAL OF PRODUCTS FROM STOCK ROOM BINS	62/251,328	
8842-136906	METHODS AND SYSTEMS FOR PRIORITIZING RETRIEVAL OF PRODUCTS FROM STOCK ROOM BINS	15/342,399	
8842-136907	METHODS AND SYSTEMS FOR MANAGING STOCK ROOM BID AUDITS AT RETAIL SALES FACILITIES	62/251,522	
8842-136907	METHODS AND SYSTEMS FOR MANAGING STOCK ROOM BID AUDITS AT RETAIL SALES FACILITIES	15/342,430	
8842-136908	METHODS AND SYSTEMS FOR LOADING PRODUCTS INTO A CARGO AREA OF A VEHICLE FOR DELIVERY TO A RETAIL SALES FACILITY	62/251,564	
8842-136908	METHODS AND SYSTEMS FOR LOADING PRODUCTS INTO A CARGO AREA OF A VEHICLE FOR DELIVERY TO A RETAIL SALES FACILITY	15/344,161	
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8842-137020	PORTABLE UNMANNED DELIVERY AIRCRAFT LAUNCH SYSTEMS, AND METHODS OF DELIVERING PRODUCTS UTILIZING AIRCRAFT LAUNCH SYSTEMS	62/222,567	
8842-137020	PORTABLE UNMANNED DELIVERY AIRCRAFT LAUNCH SYSTEMS, AND METHODS OF DELIVERING PRODUCTS UTILIZING AIRCRAFT LAUNCH SYSTEMS	15/271,763	

8842-137021	SYSTEMS AND METHODS OF DELIVERING PRODUCTS WITH UNMANNED DELIVERY AIRCRAFTS	62/222,572	
8842-137021	SYSTEMS AND METHODS OF DELIVERING PRODUCTS WITH UNMANNED DELIVERY AIRCRAFTS	15/271,784	
8842-137022	METHODS AND SYSTEMS FOR UPDATING PERPETUAL INVENTORY AT RETAIL SALES FACILITIES	62/262,186	
8842-137022	METHODS AND SYSTEMS FOR UPDATING PERPETUAL INVENTORY AT RETAIL SALES FACILITIES	15/366,701	
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8842-137023	APPARATUS TO PROVIDE A 3-D SIMULATION-EXPERIENCE FOR A NON-POINT-OF-SALE LOGISTICS AND SUPPLY CHAIN CHALLENGE	15/353,316	
8842-137024	APPARATUS AND METHOD FOR MONITORING PARKING AREA	62/249,635	
8842-137024	APPARATUS AND METHOD FOR MONITORING PARKING AREA	15/340,860	
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8842-137025	APPARATUS AND METHOD FOR PROVIDING MOBILE CONTENT DISPLAY	15/343,904	
8842-137026	APPARATUS AND METHOD FOR STABILIZING AN UNMANNED AERIAL SYSTEM	62/251,429	
8842-137026	APPARATUS AND METHOD FOR STABILIZING AN UNMANNED AERIAL SYSTEM	15/342,980	
8842-137027	APPARATUS AND METHOD FOR PROVIDING PACKAGE RELEASE TO UNMANNED AERIAL SYSTEM	62/247,409	
8842-137027	APPARATUS AND METHOD FOR PROVIDING PACKAGE RELEASE TO UNMANNED AERIAL SYSTEM	15/337,397	
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8842-137028	METHOD AND SYSTEMS FOR FACILITATING PRODUCT ON-SHELF-AVAILABILITY	15/366,874	
8842-137029	METHOD AND APPARATUS TO FACILITATE PICKING UP A RETAIL ITEM	62/286,751	
8842-137029	METHOD AND APPARATUS TO FACILITATE PICKING UP A RETAIL ITEM	15/413,693	

8842-137030	METHODS AND SYSTEMS FOR LOADING PRODUCTS INTO A CARGO SPACE OF A DELIVERY VEHICLE	62/262,285	
8842-137030	METHODS AND SYSTEMS FOR LOADING PRODUCTS INTO A CARGO SPACE OF A DELIVERY VEHICLE	15/366,789	
8842-137032	PRODUCT DELIVERY METHODS AND SYSTEMS UTILIZING PORTABLE UNMANNED DELIVERY AIRCRAFT	62/255,042	
8842-137032	PRODUCT DELIVERY METHODS AND SYSTEMS UTILIZING PORTABLE UNMANNED DELIVERY AIRCRAFT	15/346,030	9,896,207
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8842-137045	PACKAGE RELEASE SYSTEM FOR USE IN DELIVERY PACKAGES, AND METHODS OF DELIVERING PACKAGES	15/271,801	
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8842-137234	PRODUCT DELIVERY UNLOADING ASSISTANCE SYSTEMS AND METHODS	15/342,716	
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8842-137271	SYSTEMS AND METHODS OF MONITORING THE UNLOADING AND LOADING OF DELIVERY VEHICLES	15/366,201	
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8842-137284	PRODUCT STORAGE RACKS AND METHODS OF STORING PRODUCTS	15/366,171	
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8842-137309	SYSTEMS AND METHODS OF CONTROLLING DELIVERY OF PRODUCTS	15/354,232	
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8842-137317	A MOBILE CAMERA-EQUIPPED DEVICE-BASED APPROACH TO ASSESSING A DISPLAY	15/429,313	
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8842-137344	APPARATUS AND METHOD FOR MONITORING MERCHANDISE	15/398,508	
8842-137345	SYSTEMS AND METHODS FOR MONITORING FEATURED PRODUCT INVENTORY	62/275,567	
8842-137345	SYSTEMS AND METHODS FOR MONITORING FEATURED PRODUCT INVENTORY	15/397,918	
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8842-137444	SYSTEMS AND METHODS OF FULFILLING PRODUCT ORDERS	15/398,103	
8842-137445	APPARATUS AND METHOD FOR REFRIGERATION UNIT CONTROL	62/280,975	
8842-137445	APPARATUS AND METHOD FOR REFRIGERATION UNIT CONTROL	15/411,111	
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8842-137446	APPARATUS AND METHOD FOR MAINTAINING A DELIVERED-PACKAGE VAULT	15/418,266	
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8842-137448	SYSTEMS AND METHODS FOR PROVIDING SUBSTITUTE PRODUCTS IN PLACE OF ORDERED PRODUCTS THAT ARE OUT OF STOCK	15/413,776	
8842-137449	SYSTEMS AND METHODS OF CONSOLIDATING PRODUCT ORDERS	62/275,886	
8842-137449	SYSTEMS AND METHODS OF CONSOLIDATING PRODUCT ORDERS	15/400,056	
8842-137450	SYSTEMS AND METHODS OF ASSISTING IN THE DELIVERY OF PRODUCTS	62/275,891	
8842-137450	SYSTEMS AND METHODS OF ASSISTING IN THE DELIVERY OF PRODUCTS	15/399,093	
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8842-137487	APPARATUS AND METHOD FOR MONITORING PREMISES	15/388,387	
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8842-137488	SYSTEMS AND METHODS FOR FORECASTING ON-SHELF PRODUCT AVAILABILITY	15/384,722	
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8842-137516	SYSTEMS AND METHODS FOR MONITORING LOCATION OF PRODUCTS ON SHELVES AT A RETAIL SALES FACILITY	15/437,763	
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8842-137517	SYSTEMS AND METHODS FOR INDICATING WORKER TASKS AT A RETAIL SALES FACILITY	15/437,881	
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8842-137518	SYSTEMS AND METHODS FOR MANAGING PRODUCT PLACEMENT ON DISPLAYS AT RETAIL SALES FACILITIES	15/437,712	
8842-137519	APPARATUS AND METHOD FOR GENERATING ELECTRICAL ENERGY WITH SHOPPING CARTS	62/291,458	
8842-137519	APPARATUS AND METHOD FOR GENERATING ELECTRICAL ENERGY WITH SHOPPING CARTS	15/423,031	
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8842-139530	DRONE FOR AUTONOMOUSLY COMPLETING A TASK	15/851,455	
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8842-139531	SYSTEMS AND METHODS TO GENERATE COUPON OFFERINGS TO IDENTIFIED CUSTOMERS	15/487,792	
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8842-139701	SYSTEM AND METHOD FOR DELIVERING PACKAGES TO CUSTOMERS	15/841,141	
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8842-139702	SYSTEM AND METHOD FOR DELIVERING PACKAGES TO CUSTOMERS	15/841,130	
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8842-139877	SYSTEM AND METHOD FOR DETERMINING PRODUCT PERISHABILITY	15/861,247	
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8842-139978	SYSTEMS AND METHODS FOR DETERMINING PRODUCTS THAT WERE MIS-SHIPPED AND/OR IMPROPERLY INVOICED OR UNINVOICED TO A RETAIL STORE	62/466,872	
8842-139978	SYSTEMS AND METHODS FOR DETERMINING PRODUCTS THAT WERE MIS-SHIPPED AND/OR IMPROPERLY INVOICED OR UNINVOICED TO A RETAIL STORE	15/884,010	
8842-139980	SYSTEMS AND METHODS FOR CUSTOMER BIDDING AND PROMOTIONS ON MERCHANDISE	62/559,128	
8842-139985	SYSTEMS AND METHODS FOR MANAGING MOBILE MODULAR DISPLAYS	62/440,136	
8842-139985	SYSTEMS AND METHODS FOR MANAGING MOBILE MODULAR DISPLAYS	15/855,837	
8842-139986	SYSTEMS AND METHODS FOR RESIDUAL INVENTORY MANAGEMENT WITH MOBILE MODULAR DISPLAYS	62/440,142	
8842-139986	SYSTEMS AND METHODS FOR RESIDUAL INVENTORY MANAGEMENT WITH MOBILE MODULAR DISPLAYS	15/855,843	
8842-139987	MOBILE MODULAR DISPLAYS	62/440,147	
8842-139987	MOBILE MODULAR DISPLAYS	15/855,874	
8842-140037	METHODS AND SYSTEMS FOR DETECTING SHOPLIFTING AT A RETAIL FACILITY	62/485,099	
8842-140037	METHODS AND SYSTEMS FOR DETECTING SHOPLIFTING AT A RETAIL FACILITY	15/873,738	
8842-140072	VECTOR-BASED CHARACTERIZATIONS OF PRODUCTS AND INDIVIDUALS WITH RESPECT TO PERSONAL PARTIALITIES	62/436,842	

8842-140078	INTERIOR DECORATING SYSTEM USING THREE-DIMENSIONAL AND OTHER PROPERTIES OF A SPACE	62/263,499	
8842-140078	INTERIOR DECORATING SYSTEM USING THREE-DIMENSIONAL AND OTHER PROPERTIES OF A SPACE	15/367,894	
8842-140079	THREE DIMENSIONAL PRINTING FOR CONSUMERS	62/263,511	
8842-140079	THREE DIMENSIONAL PRINTING FOR CONSUMERS	15/368,309	
8842-140080	VIRTUAL TRAINING SYSTEM	62/258,792	
8842-140080	VIRTUAL TRAINING SYSTEM	15/355,879	
8842-140081	REFRIGERATING HOME DELIVERIES	62/186,181	
8842-140081	REFRIGERATING HOME DELIVERIES	15/194,251	
8842-140082	SYSTEMS AND METHODS FOR ROLL-UP PAYMENTS AUGMENTED BY PRICE MATCHING REFUNDS	62/152,410	
8842-140082	SYSTEMS AND METHODS FOR ROLL-UP PAYMENTS AUGMENTED BY PRICE MATCHING REFUNDS	15/130,075	
8842-140084	METHOD AND SYSTEM FOR DETECTION OF PRESENCE IN PREDEFINED LOCATION AND DELIVERY THERETO	62/206,131	
8842-140084	METHOD AND SYSTEM FOR DETECTION OF PRESENCE IN PREDEFINED LOCATION AND DELIVERY THERETO	15/236,930	9,788,157
8842-140085	DELIVERY ESTIMATES WITH IMPROVED ACCURACY	62/293,976	
8842-140085	DELIVERY ESTIMATES WITH IMPROVED ACCURACY	15/427,776	
8842-140086	CONSUMABLE ITEM ORDERING SYSTEM	62/280,442	
8842-140086	CONSUMABLE ITEM ORDERING SYSTEM	15/410,347	
8842-140087	PROVIDING WIRELESS INTERNET ACCESS USING AUTONOMOUS VEHICLES	62/322,023	
8842-140087	PROVIDING WIRELESS INTERNET ACCESS USING AUTONOMOUS VEHICLES	15/486,015	
8842-140088	ORDER FULFILLMENT MANAGEMENT	62/314,703	
8842-140088	ORDER FULFILLMENT MANAGEMENT	62/324,106	
8842-140088	ORDER FULFILLMENT MANAGEMENT	15/471,592	
8842-140130	RETAIL DELIVERY PACKAGES AND METHODS OF PRODUCT DELIVERY	62/479,655	

8842-140131	CONTACT ACTIVATED RETAIL DELIVERY PACKAGE RELEASE SYSTEMS AND METHODS	62/479,614	
8842-140132	APPARATUSES AND METHODS FOR GESTURE-CONTROLLED UNMANNED AERIAL VEHICLES	62/467,694	
8842-140178	SYSTEMS AND METHODS FOR RECOMMENDING ITEMS FOR PURCHASE	62/622,611	
8842-140179	RULES-BASED AUDIO INTERFACE	62/548,503	
8842-140179	RULES-BASED AUDIO INTERFACE	15/783,787	
8842-140180	RULES-BASED DECLINATION OF DELIVERY FULFILLMENT	62/471,089	
8842-140188	SYSTEMS AND METHODS FOR CONTROLLING UNMANNED TRANSPORT VEHICLES VIA INTERMEDIATE CONTROL VEHICLES	62/546,721	
8842-140189	SYSTEMS AND METHODS FOR FACILITATING SAFE EMERGENCY LANDINGS OF UNMANNED AERIAL VEHICLES	62/529,699	
8842-140190	SYSTEMS AND METHODS FOR FACILITATING IN-FLIGHT RECHARGING OF UNMANNED AERIAL VEHICLES	62/542,965	
8842-140191	SYSTEMS AND METHODS FOR PROVIDING EMERGENCY ALERTS AT EMERGENCY LANDING AREAS OF UNMANNED AERIAL VEHICLES	62/529,653	
8842-140193	PRODUCT DISTRIBUTION SYSTEM	62/509,946	
8842-140195	SYSTEMS AND METHODS FOR CONSERVING USER DEVICE RESOURCES DURING AN ONLINE OR VIRTUAL SHOPPING SESSION	62/599,237	
8842-140199	PRODUCT IDENTIFYING CARRIER	62/490,931	
8842-140200	RADIO FREQUENCY MONITORING OF A SHOPPING FACILITY	62/535,397	
8842-140201	IN-HOME PRODUCT RECALL NOTIFICATION SYSTEM AND METHOD	62/465,897	
8842-140202	SYSTEMS AND METHODS FOR GENERATING SOCIAL MEDIA POSTS BASED ON SHOPPING ACTIVITY	62/552,665	
8842-140203	SYSTEMS AND METHODS FOR MONITORING VIA RFID TAG NON-PERMANENT INK MARKERS IN A RETAIL FACILITY	62/540,637	
8842-140204	SELF-ORGANIZED RETAIL SOURCE REQUEST ROUTING AND DISTRIBUTED LOAD SHARING SYSTEMS AND METHODS	62/464,784	

8842-140204	SELF-ORGANIZED RETAIL SOURCE REQUEST ROUTING AND DISTRIBUTED LOAD SHARING SYSTEMS AND METHODS	15/858,388	
8842-140206	SYSTEM AND METHOD FOR NIL PICK HANDLING AT A WAREHOUSE	62/538,880	
8842-140252	SYSTEM AND METHOD FOR MANAGING REFRIGERATION TEMPERATURES IN STORAGE AREAS OF A VEHICLE	62/534,742	
8842-140275	WIRELESS CHARGING AND PROTECTION FOR UNMANNED DELIVERY AERIAL VEHICLES	62/536,315	
8842-140314	VECTOR-BASED CHARACTERIZATIONS OF PRODUCTS AND INDIVIDUALS WITH RESPECT TO PERSONAL PARTIALITIES	62/549,484	
8842-140314	VECTOR-BASED CHARACTERIZATIONS OF PRODUCTS AND INDIVIDUALS WITH RESPECT TO PERSONAL PARTIALITIES	15/783,929	
8842-140317	SYSTEM AND METHOD FOR AUTOMATED GROUND VEHICLE BREAKDOWN RECOVERY	62/542,874	
8842-140319	SYSTEMS AND METHODS FOR MONITORING CONDITION COMPLIANCE VIA RFID TAG	62/564,802	
8842-140321	SCALE HAVING A MACHINE-READABLE CODE DISPLAY	62/535,019	
8842-140322	MULTIPLE ENERGY SOURCE GUIDANCE SYSTEM AND METHOD FOR DRONES	62/522,938	
8842-140323	SYSTEMS AND METHODS FOR DELIVERING PRODUCTS TO A CUSTOMER VIA ANOTHER CUSTOMER AND AN AUTONOMOUS TRANSPORT VEHICLE	62/550,134	
8842-140328	COURIER MANAGEMENT SYSTEM	62/408,736	
8842-140328	COURIER MANAGEMENT SYSTEM	15/783,668	
8842-140475	METHOD AND APPARATUS FOR HANDLING MIS-RINGING OF PRODUCTS	62/546,788	
8842-140476	SYSTEM AND METHOD FOR IDENTIFYING TRANSITION POINTS IN A RETAIL FACILITY	62/576,258	
8842-140477	SYSTEMS AND METHOD FOR DELIVERING PRODUCTS TO MULTIPLE DELIVERY DESTINATIONS VIA AUTONOMOUS TRANSPORT VEHICLES	62/552,871	
8842-140479	SYSTEMS AND METHODS FOR DELIVERING MERCHANDISE USING A NETWORK OF UNMANNED AERIAL VEHICLES	62/597,000	

8842-140480	SYSTEM AND METHOD FOR SECURING PRODUCTS UTILIZING DNA INFORMATION	62/613,475	
8842-140483	SYSTEMS AND METHODS FOR PRODUCT REVIEW MANAGEMENT WITH DISTRIBUTED DATABASE	62/514,522	
8842-140484	SYSTEMS AND METHODS FOR LOADING AND UNLOADING MERCHANDISE USING AUTONOMOUS GROUND VEHICLES	62/610,604	
8842-140486	SYSTEM AND METHOD FOR RECONCILING RFID READ LOCATIONS	62/544,087	
8842-140488	MOBILE TRAILER SYSTEMS FOR DEPLOYING UNMANNED AERIAL VEHICLES	62/553,310	
8842-140685	AUTOMATED VEHICLE AND METHOD FOR SERVICING DISABLED VEHICLES	62/599,321	
8842-140715	METHOD AND SYSTEM FOR SUPPORTING OPERATIONS IN RETAIL STORES	15/515,558	
8842-140745	SHOPPING FACILITY ASSISTANCE OBJECT DETECTION SYSTEMS, DEVICES AND METHODS	15/692,226	
8842-140815	UNMANNED MOBILE CONTROL POINT PRODUCT DELIVERY SYSTEMS AND METHODS	62/537,665	
8842-140816	SYSTEM AND METHOD FOR GATE AND RESOURCE ASSIGNMENT AT A DISTRIBUTION CENTER	62/592,082	
8842-140817	SYSTEMS AND METHODS FOR AUTOMATING DELIVERY PRIORITIZATION AT A DISTRIBUTION CENTER	62/581,985	
8842-140818	SYSTEM AND METHOD FOR MANAGING INVENTORY VIA RFID TAGS	62/535,368	
8842-140820	VECTOR-BASED CHARACTERIZATIONS OF PRODUCTS AND INDIVIDUALS WITH RESPECT TO PERSONAL PARTIALITIES	62/485,045	
8842-140820	VECTOR-BASED CHARACTERIZATIONS OF PRODUCTS AND INDIVIDUALS WITH RESPECT TO PERSONAL PARTIALITIES	15/488,004	
8842-140846	CONSUMER DEMAND-BASED INVENTORY MANAGEMENT SYSTEM	15/490,102	9,836,719
8842-140996	SYSTEMS, APPARATUSES AND METHODS OF SUPPORTING PAYMENT TEST CARDS AND ROBOTICALLY TESTING CARD PAYMENT SYSTEMS	62/549,104	
8842-140997	GROUP SHOPPING RULES ENGINE	62/573,988	
8842-140998	SYSTEMS AND METHODS FOR VALIDATING PRODUCTS TO BE	62/551,350	

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8842-141001	SYSTEMS AND METHODS FOR AUTOMATED CUSTOMER RECURRING PAYMENT PROCESSING	62/508,289	
8842-141021	METHOD AND APPARATUS FOR HOLDING CONTAINERS OPEN	15/603,981	
8842-141022	OVERSTOCK INVENTORY MANAGEMENT AT RETAIL SALES FACILITIES	15/823,934	
8842-141023	METHOD AND SYSTEM FOR DETECTION OF PRESENCE IN PREDEFINED LOCATION AND DELIVERY THERETO	15/695,963	
8842-141070	SYSTEMS AND METHODS FOR PEER-TO-PEER DATA TRANSFER	62/609,734	
8842-141168	AUGMENTED REALITY SYSTEMS AND METHODS FOR SUPPLY CHAIN	62/609,516	
8842-141169	SYSTEM AND METHOD FOR POSITION DETERMINATION FOR UNMANNED VEHICLES	62/620,016	
8842-141300	SYSTEMS AND METHODS OF CONTROLLING RETAIL STORE ENVIRONMENT CUSTOMER STIMULI	62/563,214	
8842-141349	MOBILE SOLUTION FOR PURCHASE ORDERS	15/649,289	
8842-141436	SYSTEMS AND METHODS OF OBJECTIVELY CONFIRMING CUSTOMER SELF-SCANNING OF PRODUCTS IN A RETAIL STORE	62/577,893	
8842-141437	BARCODE VALIDATOR AND TEXT EXTRACTION FROM IMAGES FOR DATA QUALITY CHECKS AND REMEDIATION	62/588,672	
8842-141438	SYSTEMS AND METHODS FOR THE TRANSPORT AND STORAGE OF AUTONOMOUS GROUND VEHICLES	62/625,555	
8842-141497	CONTENT BASED ROUTING ARCHITECTURE SYSTEM AND METHOD	15/673,150	
8842-141683	DATA STRUCTURE SYSTEMS AND METHODS THAT RECEIVE AND GENERICIZE RECIPES	62/607,096	
8842-141684	DATABASE SYSTEMS AND METHODS OF MAINTAINING AND ENABLING RETAIL PURCHASE THROUGH RECIPES	62/607,087	
8842-141713	SYSTEMS AND METHODS FOR IDENTIFYING AND REMEDYING PRODUCT MIS-SHIPMENTS TO RETAIL STORES	62/611,771	
8842-141732	SYSTEM AND METHOD FOR THE ENCOURAGEMENT OF CUSTOMER VISITS TO RETAIL STORES	62/621,965	
8842-141757	BATTERY PACK AND TOOL	29/627,988	

8842-141769	HTTP PARALLEL PROCESSING ROUTER	15/787,572	
8842-141853	OPEN MOBILE PAYMENT SYSTEMS AND METHODS	62/572,314	
8842-141854	SYSTEMS AND METHODS FOR IDENTIFYING UNIDENTIFIED AUTONOMOUS VEHICLES	62/615,672	
8842-141863	CHARACTERIZATIONS ASSOCIATED WITH PRODUCTS IN AUGMENTED REALITY VISUALIZATIONS	62/571,867	
8842-141998	RETAIL INVENTORY MANAGEMENT SERVICES THROUGH PERSONAL MOBILE DEVICES	15/798,038	
8842-142015	BARCODE SCANNER DEVICE AND INVENTORY MANAGEMENT SYSTEM	15/812,387	
8842-142064	CONSUMER DEMAND-BASED INVENTORY MANAGEMENT SYSTEM	15/801,478	
8842-142065	FOOD PRODUCT TRAY	29/629,649	
8842-142082	AUTOMATED TESTING SYSTEMS AND METHODS FOR POINT-OF-SALE TERMINALS	62/589,970	
8842-142093	TEST CARD FOR AUTOMATED RETAIL FINANCIAL TRANSACTION SYSTEM	62/590,009	
8842-142142	SYSTEMS AND METHODS FOR RECEIVING RETAIL PRODUCTS	62/593,046	
8842-142209	OVERSTOCK INVENTORY SORTING AT RETAIL SALES FACILITIES	15/821,165	
8842-142210	FOOD PRODUCT TRAY	29/629,680	
8842-142289	DRONE CAPABLE OF AUTONOMOUSLY DETERMINING TRUSTWORTHINESS OF MESSAGES RECEIVED	62/623,749	
8842-142397	METHOD AND APPARATUS PERTAINING TO RADIO-FREQUENCY IDENTIFICATION TAGS	15/858,918	
8842-142421	AIR-COOLED AMMONIA REFRIGERATION SYSTEMS AND METHODS	15/873,654	
8842-142434	PRODUCT DELIVERY METHODS AND SYSTEMS UTILIZING PORTABLE UNMANNED DELIVERY AIRCRAFT	15/863,123	
8842-142508	OUT OF STOCK ITEM TRACKING AT RETAIL SALES FACILITIES	15/875,760	
8842-142509	STOCKING LEVEL INDICATION APPARATUS AND METHOD	15/875,834	