

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT4885619

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
WAL-MART STORES, INC.	02/26/2018
RECEIVING PARTY DATA	
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Property Type	Number
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NAME OF SUBMITTER:	KAREN E. JACHIMOWICZ
SIGNATURE:	/Karen E. Jachimowicz/
DATE SIGNED:	03/27/2018
Total Attachments: 25	
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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 I, 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 I 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.

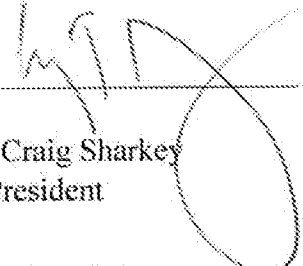
Counterparts. This Patent Assignment may be executed in counterparts, each of which shall be deemed an original, but all of which together shall be deemed to be one and the same agreement. A signed copy of this Patent Assignment delivered by facsimile, e-mail or other means of electronic transmission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

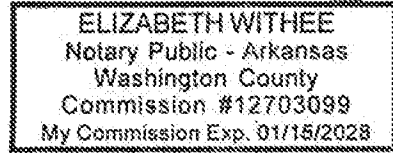
IN WITNESS WHEREOF, Assignee has duly executed and delivered this Patent Assignment as of the date first above written.

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

By: 

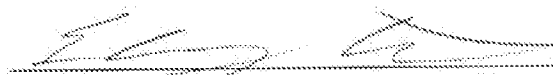
Name: Craig Sharkey
Title: President

State of Arkansas)
) ss:
County of Centon)



On this, the 26th day of February, 2018, before me, a notary public, the undersigned officer, personally appeared Craig Sharkey, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

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


Notary Public
My Commission Expires: 01/15/2028

SCHEDULE 1

Assigned Patents and Applications

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

SCHEDULE 1 CONTINUED

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

SCHEDULE I CONTINUED

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

SCHEDULE I CONTINUED

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

SCHEDULE 1 CONTINUED

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

SCHEDULE I CONTINUED

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

SCHEDULE 1 CONTINUED

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

SCHEDULE 1 CONTINUED

Ref. No.	Title	Application No.	Patent No.
2463US02	OBTAINING A MEDICAL RECORD STORED ON A BLOCKCHAIN FROM A WEARABLE DEVICE	15840589	
2465US02	CONTROLLING ACCESS TO A LOCKED SPACE USING CRYPTOGRAPHIC KEYS STORED ON A BLOCKCHAIN	15840663	
2466US02	MANAGING A DEMAND ON AN ELECTRICAL GRID USING A PUBLICLY DISTRIBUTED TRANSACTIONS LEDGER	15840724	
2514US02	VERIFYING AUTHENTICITY OF COMPUTER READABLE INFORMATION USING THE BLOCKCHAIN	15840792	
1704US02	HANDS-FREE SHOPPING APPLICATIONS INCLUDING SCANNING FUNCTIONS	15840398	
713US02	MODULAR LABEL TRACK SYSTEM	15848769	
1715US02	DYNAMIC POWER SENSING SYSTEM	15849758	
1716US02	PRODUCT TRACKING SYSTEM	15849786	
1717US02	STOCKING TOOL	15841400	
1751US02	PRODUCT REPLACEMENT SYSTEM	15820511	
1831US02	SELF-LOCKING CLIP MECHANISM AND MOBILE DEVICE HOLDER INCORPORATING THE SAME	15849848	
1922US02	BAGGING STATION BAGGING CLIP	15472658	
1997US02	BAGGING CLIP TOOL AND METHOD OF FORMING THE SAME	15831561	
1951US02	STATIC ELECTRICITY SENSING APPLICATIONS IN RETAIL ENVIRONMENT	15879856	
1427US02	FOOD PRODUCT SPOILAGE DETECTION	15856203	
2031US02	TASK MANAGEMENT IN RETAIL ENVIRONMENT	15880574	
3123US02	FRESH PRODUCTION PLANNER	15831520	
2115US02	CHECKOUT STATION BUMPER	15860984	
2170US02	CHECKOUT STATION WITH HANGER HOOK	15875314	
2062US02	PANEL POWERED PRODUCE DISPLAY TABLE	15880016	
2169US02	HANDLE CLIP MECHANISM	15879786	
3797US01	HANDLE CLIP MECHANISM	29593683	

SCHEDULE 1 CONTINUED

Ref. No.	Title	Application No.	Patent No.
1877US02	PROCESSING SELF-CHECKOUT TRANSACTION USING PORTABLE DEVICE LINKED TO MOBILE DEVICE	15881897	
2548US02	RETRACTABLE BAGGING STATION	15798642	
2457US02	CLOUD SECURITY STACK	15881267	
3075US02	AUTOMATED SELECTING AND MIXING MACHINE	15878671	
1100US02	AUTHENTICATED PURCHASE OF RESTRICTED ITEMS	15410402	
339US01	SYSTEMS AND METHODS FOR PROVIDING SHOPPING RECOMMENDATIONS	14098318	
376US02	PROVIDING RELEVANT PRODUCT DEMONSTRATIONS	15329862	
447US02	DRIVE THROUGH GROCERY PICKUP	14828245	
810US02	SYSTEMS AND METHODS FOR SELECTING MEDIA FOR MEAL PLANS	15184829	
992US02	RESIDENTIAL UPGRADE DESIGN TOOL	15379332	
3284US02	PORTABLE HAMMOCK STYLE CHAIR	15877685	
3043US02	NURSING PILLOW AND METHODS FOR EFFICIENT DISPLAY OF NURSING PILLOWS	15881822	
3725US01	TOTE INSERT	29610548	
105US01	SYSTEM AND METHOD FOR PROTECTING DATA IN AN ENTERPRISE ENVIRONMENT	13687550	9043874
157US01	CROSS PLATFORM WORKFLOW MANAGEMENT	13740325	9400728
248US01	COMPUTER DATA VOLUME TRACKER SYSTEM AND METHOD	13950558	
280US01	VALUE AT RISK INSIGHTS ENGINE	13947851	9336503
481US02	SYSTEMS AND METHODS FOR CONTROLLING MOBILE DEVICE USE	15094137	9900777
141US02	Extended Language Precompiler	14205978	9122489
217US02	System and Method for Processing Web Service Transactions Using Timestamp Data	13960266	9336265
247US01	SYSTEMATIC DISCOVERY OF BUSINESS ONTOLOGY	13974318	9519872
252US01	Automatic Blocking of Bad Actors	13964543	9450970
080US01	THROTTLING MECHANISM	13490792	9146978
081US01	SEQUENCE ENGINE	13490786	8972344

SCHEDULE 1 CONTINUED

Ref. No.	Title	Application No.	Patent No.
081US02	SEQUENCE ENGINE	14602420	9639593
301US02	SYSTEM AND METHOD FOR GENERATING SYNTHETIC DATA FOR SOFTWARE TESTING PURPOSES	14694387	9710365
414US03	UNIVERSAL MEDIA POCKET AND CHAIR WITH UNIVERSAL MEDIA POCKET	14811187	9642466
414US02	UNIVERSAL MEDIA POCKET	29498141	D771943
042US01	TIME SINCE BREW INDICATOR FOR BEVERAGE MAKER	12403051	8397625
041US01	Liquid Director For Beverage Maker	12402987	8667891
043US01	Cleaning Cycle Indicator and Cleaning Process for Beverage Maker	12403015	8511220
044US01	Cooking Apparatus and Method	12500430	8648282
048US02	Processing Apparatus and Method	12870346	8262005
511US01	SYSTEMS, METHODS AND COMPUTER PROGRAM PRODUCTS FOR INTEGRATING ADVERTISING WITHIN WEB CONTENT	12688548	8862779
725US02	COMMUNICATION SYSTEM AND METHOD	15211115	9820107
470US02	SYSTEM AND METHOD FOR MAPPING WIRELESS NETWORK COVERAGE	15332286	9888390
1060US01	SHOPPING CART HANDLE MECHANISM	29548742	D793646
1172US02	BAGGING STATION SUPPORT FRAME AND METHOD OF FORMING THE SAME	15381552	9844283
902US02	SHOPPING PARTY LOCATOR SYSTEMS AND METHODS	15494037	9865148
1154US02	PORTABLE COMPUTING DEVICE HOLDER	15444739	9877601
020US02	STORED VALUE CARD VALIDATION	11277426	7445147
025US01	SOLAR HEATING SYSTEM AND ARCHITECTURAL STRUCTURE WITH A SOLAR HEATING SYSTEM	11625662	7677243
1913US01	BAGGING STATION BAGGING CLIP	29560807	D795061
2111US01	COUPLING	29566595	D799310
2324US01	CORNER MOUNT FIXTURE	29572493	D811199
2387US01	SHOPPING CART BASKET	29572901	D796771
2627US01	INVENTORY PROCESSING CART	29574939	D806977

SCHEDULE I CONTINUED

Ref. No.	Title	Application No.	Patent No.
2066US01	TRACKING ASSOCIATE INTERACTION	62481464	2066US01
1830US01	MOBILE DEVICE HOLDER	62455126	1830US01
1843US01	AUTOMATED CHECKOUT	62480938	1843US01
1654US01	ELECTRONIC SAVINGS CONVERSION AND REDEMPTION IN A POINT OF SALE ENVIRONMENT	62475594	1654US01
1194US01	RULES-BASED VOUCHER MANAGEMENT SYSTEM AND METHOD FOR PROCESSING SELF-SERVICE SUBSTANTIATION VOUCHER	62501929	1194US01
1140US01	ELECTRONIC GAME CREDIT	62511712	1140US01
812US01	ENTERPRISE INTEGRATION PROCESSING FOR MAINFRAME COBOL PROGRAMS	62469320	812US01
2027US01	DETECTING FRAUDULENTLY DEACTIVATED SECURITY DEVICES FOR ASSET PROTECTION	62531678	2027US01
2032US01	UNMANNED VEHICLE IN SHOPPING ENVIRONMENT	62467882	2032US01
2036US01	BAG RECYCLING PROGRAM	62468211	2036US01
2047US01	VOICE ACTIVATED PAYMENT	62517509	2047US01
2125US01	CUSTOMER INTERACTION SYSTEM	62480949	2125US01
2126US01	THREE-DIMENSIONAL PRINTING GUN	62508852	2126US01
2424US01	RETRACTABLE CORD SYSTEM FOR HAND SCANNER DEVICE AT SELF CHECKOUT COUNTER	62470479	2424US01
2460US01	COLLECTIBLE BIN CABINET AND LEVEL REPORTING SYSTEM FOR A CHECKOUT STATION	62468221	2460US01
1876US01	PACKAGE TRACKING	62480925	
1937US01	CASH SECURITY SYSTEM FOR A RETAIL STORE	62470743	
2444US01	PREDICTING REALISTIC TIME OF ARRIVAL FOR QUEUE PRIORITY ADJUSTMENT	62502161	
2174US01	SHOPPING CART AND METHOD OF FORMING A SHOPPING CART	62481231	
2287US01	SYSTEM AND METHOD FOR DETERMINING CONDITIONS OF STORE PRODUCE DISPLAY	62481438	

SCHEDULE 1 CONTINUED

Ref. No.	Title	Application No.	Patent No.
2289US01	MOTORIZED HEIGHT ADJUSTOR AND CHECKOUT STATION WITH ADJUSTABLE HEIGHT CONVEYOR BELT	62483706	
2037US01	VIDEO CARD TRAINING PROGRAM	62515925	
2332US01	CROWDSOURCING TECHNIQUES FOR PROCESSING PRODUCT CONTENT	62511736	
3095US01	SHOPPING CART WITH SENSOR SYSTEM	62517012	
3047US01	SHOPPING CART WITH SCANNER SYSTEM	62508135	
2900US01	GUIDANCE SYSTEM FOR PROCESSING SELF-SERVICE ORDERS AT KIOSK STATIONS	62515749	
3857US01	UNIVERSAL COUPLING DEVICES FOR SHOPPING CART	62520107	
3069US01	MONITOR BRACKET	62541885	
3931US01	TETHER SYSTEM	62519460	
3918US01	COLLAPSIBLE CUP HOLDER SYSTEM	62541895	
342PR	BAGGING STATION SYSTEM AND BAGGING STATION BRACKET	62529174	
2348US01	VALIDATING IDENTIFICATION OF A USER AT A MOBILE POINT OF SALE FOR PURCHASE OF AGE-RESTRICTED ITEMS	62542525	
4213US01	SHOPPING CART BAGGING STATION	62546850	
3384US01	CABINET LOCK AND LOCKING CABINET SECURITY SYSTEM	62557963	
4175US01	BAG RETAINING FIXTURE	62577433	
4361US01	MOBILE DEVICE HOLDER	62578967	
4382US01	HOLDER FOR MULTIPLE MOBILE ELECTRONIC DEVICES	62578970	
4249US01	STORE DISPLAY FOR MOBILE COMPUTING DEVICES	62579334	
4454US01	CART MOUNTED CUP HOLDER	62555532	
4275US01	SHOPPING CART BAGGING STATION	62550175	
3929US01	APPAREL CART	62561506	
4219US01	SYSTEMS AND METHODS FOR PROCESSING STORE RETURNS	62615556	
4665US01	CARTS FOR MOBILE CHECKOUT OF LAWN AND GARDEN PURCHASES	62593472	

SCHEDULE 1 CONTINUED

Ref. No.	Title	Application No.	Patent No.
4795US01	SHOPPING BAG DISTRIBUTION STATION	62622364	
101US01	STORE FEATURE ITEM FINDER APPLICATION	13787887	
148US01	SYSTEM AND METHOD FOR PURCHASING GOODS FOR DONATION TO CHARITIES	13740546	
298US01	APPLICATION AUTHENTICATION CHECKING SYSTEM	14037638	
173US01	Framework for Generating a Personalized Item List	13721368	
210US01	System and Method for Providing Assistance	13945213	
451US03	DECORATIVE EGG SYSTEM AND METHOD	14947071	
451US04	DECORATIVE EGG SYSTEM AND METHOD	14975311	
397US01	PROXIMITY ALERTS FOR SERVICE RESOURCE AVAILABILITY	62055941	
388US01	RETAIL CHECKOUT SYSTEMS AND METHODS	62098390	
539US01	SYSTEM AND METHOD FOR PROVIDING MEDICINE ADMINISTRATION NOTIFICATIONS	62132685	
539US02	MEDICINE ADMINISTRATION SYSTEMS AND METHODS	62219831	
567US01	METHOD AND SYSTEM FOR MAINTAINING PERSONAL INVENTORY OF MEDICATION	62132675	
568US01	MEDICINE ADMINISTRATION SCHEDULING	62132691	
596US01	ENTRY, STORAGE AND RETRIEVAL OF MEDICAL INFORMATION FROM A PHARMACY	62132734	
604US01	METHOD AND SYSTEM FOR MOTIVATING PROPER PRESCRIPTION DRUG USAGE	62132745	
490US01	ITEM LIST DISPLAY	62142145	
730US01	REFRIGERATION HEAT RECLAIM	62120020	
765US01	RECYCLING SYSTEM AND METHOD	62107014	
600US01	SYNTHETIC EGG	62165402	
481US01	SYSTEMS AND METHODS FOR CONTROLLING MOBILE DEVICE USE	62145823	
537US01	SYSTEM AND METHOD FOR INVENTORY MANAGEMENT	62167363	

SCHEDULE 1 CONTINUED

Ref. No.	Title	Application No.	Patent No.
538US01	SYSTEM AND METHOD OF INVENTORY MANAGEMENT	62167370	
553US01	SYSTEM AND METHOD FOR DETERMINING A SEQUENCE FOR PERFORMING A PLURALITY OF TASKS	62145076	
616US01	SYSTEMS AND METHODS FOR PRESENTING STORE SALES DATA TO A MOBILE ELECTRONIC DEVICE	62158101	
685US01	NEAR-FIELD COMMUNICATION LABELS FOR STORE SHELVES	62153064	
468US01	SYSTEM AND METHOD FOR MAPPING PRODUCT LOCATIONS	62156603	
754US01	PALATABILITY ENHANCER WITH ADDED AROMA FOR APPLICATION TO PET FOOD PRODUCTS	62152157	
688US01	GEOLOCATION ANALYTICS	62168330	
373US01	Systems and Methods for Managing Self Check Out Services	62031216	
301US01	System and Method for Generating Synthetic Data for Software Testing Purposes	61984309	
414US01	UNIVERSAL MEDIA POCKET	62031513	
451US01	Decorative Egg System and Method	62082916	
451US02	DECORATIVE EGG SYSTEM AND METHOD	62203121	
375US01	METHOD AND SYSTEM FOR LOYALTY BASED REWARDS PROGRAM FOR RETAIL STORES	62030369	
354US01	METHOD AND SYSTEM FOR CUSTOMER CHECKOUT	62031364	
767US01	DRY AND MOIST PIECE CHEESEBURGER PET FOOD	62165451	
485US01	TACTILE NAVIGATION SYSTEMS AND METHODS	62188060	
394US01	SYSTEMS AND METHODS FOR DETERMINING MEASUREMENT DATA OF AN ITEM	62197657	
502US01	ACTIVITY MONITORING SYSTEM AND METHOD	62158628	
662US01	APPARATUS AND METHOD FOR EXECUTING ON-LINE PURCHASES	62199376	
778US01	PRODUCE WEIGH STATION AND METHOD OF USE	62233589	
781US01	SENSORY STIMULATION CONTROLS FOR RETAIL ENVIRONMENT	62200808	
795US01	TRANSACTION SIGNALING DEVICES IN SHOPPING ENVIRONMENT	62206374	

SCHEDULE 1 CONTINUED

Ref. No.	Title	Application No.	Patent No.
835US01	SYSTEM FOR AUTOMATIC SIGNATURE FOR RECEIPT VERIFICATION	62206398	
525US01	CUSTOMER MOVEMENT MONITORING SYSTEM AND METHOD	62180231	
770US01	SYSTEM AND METHOD FOR TRACKING	62208862	
872US01	SYSTEM FOR REDUCING WAITING TIME	62206886	
782US01	NFC TO CUSTOMER PROFILE SYSTEMS AND METHODS	62208214	
725US01	COMMUNICATION SYSTEM AND METHOD	62193850	
844US01	CUSTOMER LOYALTY PROGRAM ACROSS MULTIPLE SHOPPING CHANNELS	62241964	
839US01	SYSTEMS AND METHODS FOR DELIVERING GOODS TO CONSUMERS	62244823	
470US01	SYSTEM AND METHOD FOR MAPPING WIRELESS NETWORK COVERAGE	62249531	
858US01	RETAIL SUBSCRIPTION IN INTERNET OF THINGS ENVIRONMENT	62247878	
1020US01	PRESCRIPTION HOME DELIVERY	62253534	
873US01	SYSTEM AND METHOD FOR COLLECTING CUSTOMER FEEDBACK	62255619	
557US01	DEVICE AND METHOD FOR DIRECTING EMPLOYEE MOVEMENT	62259360	
1025US01	UNMANNED AERIAL DELIVERY TO SECURE LOCATION	62260086	
1059US01	SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME	62270785	
1092US01	RETAIL STORE FIXTURE AND METHOD OF STERILIZING A RETAIL STORE FIXTURE	62270932	
1103US01	SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME	62270813	
1115US01	SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME	62270827	
1116US01	MOBILE BAGGING STATION	62270958	
1172US01	BAGGING STATION SUPPORT FRAME AND METHOD OF FORMING THE SAME	62270881	
902US01	SHOPPING PARTY LOCATOR SYSTEMS AND METHODS	62328802	
958US01	INSTANT RENTAL SERVICE RESERVATION SYSTEMS AND METHODS	62263873	
939US01	SYSTEMS AND METHODS FOR PRODUCT WARRANTY REGISTRATION AND TRACKING	62387541	

SCHEDULE 1 CONTINUED

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

SCHEDULE 1 CONTINUED

Ref. No.	Title	Application No.	Patent No.
1101US01	FRESH PERISHABLE STORE ITEM NOTIFICATION SYSTEMS AND METHODS	62305085	
1105US01	SYSTEMS AND METHODS FOR PURCHASING FRESH FOOD ITEMS ONLINE	62305099	
797US01	AUDIO/VISUAL RECORDING APPARATUS, AUDIO/VISUAL RECORDING AND PLAYBACK SYSTEM AND METHODS FOR THE SAME	62273685	
1169US01	IMAGE IN-STOCK CHECKER	62305119	
1408US01	SMART PACKAGE	62381235	
1011US01	CUSTOM KIOSK	62310917	
1138US01	INVENTORY VOTING SYSTEM	62316737	
1198US01	PAYMENT REGISTER SYSTEM AND METHOD OF OPERATING A PLURALITY OF PAYMENT REGISTERS	62316762	
1152US01	STORE ITEM DELIVERY SYSTEMS AND METHODS	62316689	
1172US01	PRODUCE PRODUCT ORDER DELIVERY SYSTEM	62321966	
1234US01	LAYAWAY SYSTEM AND METHOD	62327695	
1914US01	BAGGING STATION BAGGING CLIP	62315222	
1914US02	BAGGING STATION BAGGING CLIP	62340642	
1451US01	BAGGING STATION SUPPORT FRAME AND METHOD OF FORMING THE SAME	62375691	
1452US01	SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME	62377135	
1453US01	SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME	62377143	
1939US01	CALL BUTTON BRACKET	62321435	
1939US02	CALL BUTTON BRACKET	62347119	
1218US01	WEARABLE SECURITY APPARATUS	62356795	
1287US01	SYSTEM AND METHOD FOR FRESH ONLINE EXPERIENCE	62353610	
1389US01	SYSTEM AND METHOD FOR PURCHASING ADVERTISED ITEMS	62353144	
2124US01	WHEELED CART FOR TRANSPORTING STORE ITEMS	62329357	
1544US01	CUSTOMER MANAGEMENT SYSTEM	62408737	

SCHEDULE 1 CONTINUED

Ref. No.	Title	Application No.	Patent No.
1545US01	VENDOR PAYMENT SHARING SYSTEM	62408738	
1546US01	CUSTOMER INTERFACE SYSTEM	62408740	
1134US01	IN-STORE NAVIGATION SYSTEMS AND METHODS	62370832	
1245US01	VEHICLE SERVICE KIOSK SYSTEM	62369865	
1416US01	SHOPPING CART FOR VISION-IMPAIRED USERS	62375577	
1535US01	AUTOMATED STORE RETURN PROCESS	62373474	
1532US01	PRODUCE SELECTION SYSTEM FOR SINGLE ITEMS	62377341	
1536US01	PRODUCE SELECTION SYSTEM FOR BULK ITEMS	62377371	
1541US01	LAYAWAY SYSTEM	62420919	
917US01	LANDSCAPE DESIGN SYSTEMS AND METHODS	62371420	
860US01	SOCIAL ENGINEERING THROUGH GAMIFICATION	62371521	
1503US01	PAPER BAG RETAINING FIXTURE	62385097	
1504US01	BAG RETAINING FIXTURE	62385108	
1703US01	PACKAGE AS KEY	62375628	
1844US01	COURIER SHOPPING SYSTEM	62408743	
1040US01	PROCESSING PAYMENT REFUNDS FOR INVALID PAYMENT INSTRUMENTS	62404963	
1651US01	AUTOMOBILE INFORMATION BEACON	62378475	
2112US01	COUPLING APPARATUS	62343952	
2190US01	WALL MOUNT FIXTURE	62343953	
2191US01	MOBILE COMPUTING DEVICE HOLDER	62343954	
1614US01	MODULAR BAGGING STATIONS	62349933	
2239US01	SELF-CHECKOUT REGISTER CONFIGURATIONS	62349940	
1076US01	PRODUCT PART PICTURE PICKER	62383881	
2108US01	RETAIL STORE FIXTURE FOR A CHECKOUT STATION	62350986	
2325US01	CORNER MOUNT FIXTURE	62367754	
2326US01	MOBILE COMPUTING DEVICE HOLDER	62367757	

SCHEDULE 1 CONTINUED

Ref. No.	Title	Application No.	Patent No.
2227US01	SHOPPING CART BASKET	62359435	
2392US01	APPAREL RACK	62356747	
2392US02	APPAREL RACK	62369870	
965US01	SENSING DEVICE FOR SHOPPING CART	62397445	
1001US01	SYSTEMS AND METHODS FOR CONTROLLING A DISPLAY OF CONTENT IN A RETAIL STORE	62408158	
1153US01	RECIPE MANAGEMENT SYSTEM	62404454	
1351US01	WARRANTY TRACKING SYSTEM	62462626	
1582US01	RETAIL STORE SCANNING GAME AND PURCHASE SYSTEM	62413599	
1647US01	COAT HANGER DEVICE AND KEY CHAIN	62400814	
1661US01	CAMERA GESTURE CLOCK IN	62401449	
1676US01	RETAIL STORE CART	62401429	
1702US01	SHELVING SYSTEM HAVING STOWABLE SHELVES	62409496	
1707US01	LANDING PAD RECEPTACLE FOR PACKAGE DELIVERY AND RECEIPT	62403908	
1711US01	MICRO STORE LOCATION PROJECTOR	62401510	
1712US01	PROMOTING STORE ITEMS USING AUGMENTED REALITY GAMING APPLICATIONS	62411187	
1899US01	SYSTEMS AND METHODS FOR DIRECTING A USER TO A LOCATION OF INTEREST	62406578	
1892US01	SENSOR BASED REORDERING SYSTEM	62397571	
2040US01	AUTOMATED POINT OF SALE SYSTEM	62403931	
2254US01	PROCESSING PURCHASES FOR UNAVAILABLE MERCHANDISE	62418347	
2258US01	SECURE PAYMENT PROCESSING FOR PRODUCT DISPLAYED ON A PUBLIC COMPUTER	62418359	
2259US01	AUTHENTICATING ONLINE TRANSACTION USING SEPARATE COMPUTING DEVICE	62417766	
915US01	AUTOMATIC CLUB MEMBERSHIP	62401950	
2440US01	STICKER DISPENSER	62366733	

SCHEDULE 1 CONTINUED

Ref. No.	Title	Application No.	Patent No.
2442US01	BAG DISPENSER	62366877	
1471US01	SELF-RETURN	62403255	
2320US01	SMART CART FOR SELF-CHECKOUT OF RETAIL MERCHANDISE	62405307	
2621US01	INVENTORY PROCESSING CART AND METHOD OF USE THEREOF	62377284	
2558US01	SELF-CHECKOUT STATION AIR CIRCULATION	62377305	
2764US01	ORDER FULFILLMENT CART HAVING NESTING CAPABILITY	62378995	
2767US01	RECEPTACLE AND COVER	62378844	
2455US01	MULTI-COMPARTMENT MODULAR COOLER	62404284	
2903US01	SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME	62402475	
2008US01	ELECTRONIC COMMUNICATIONS IN CONNECTION WITH A PACKAGE DELIVERY	62445979	
2192US01	SYSTEMS AND METHODS FOR DETERMINING SHELF OCCUPANCY	62432867	
2463US01	OBTAINING A MEDICAL RECORD STORED ON A BLOCKCHAIN FROM A WEARABLE DEVICE	62433956	
2465US01	CONTROLLING ACCESS TO A LOCKED SPACE USING CRYPTOGRAPHIC KEYS STORED ON A BLOCKCHAIN	62433962	
2466US01	MANAGING A DEMAND ON AN ELECTRICAL GRID USING A PUBLICLY DISTRIBUTED TRANSACTIONS LEDGER	62433968	
2514US01	VERIFYING AUTHENTICITY OF COMPUTER READABLE INFORMATION USING THE BLOCKCHAIN	62438728	
1704US01	HANDS-FREE SHOPPING APPLICATIONS INCLUDING SCANNING FUNCTIONS	62433975	
1713US01	MODULAR LABEL TRACK SYSTEM	62437409	
1715US01	DYNAMIC POWER SENSING SYSTEM	62438765	
1716US01	PRODUCT TRACKING SYSTEM	62439571	
1717US01	STOCKING TOOL	62433979	
1718US01	ZONING TOOL	62433984	
1751US01	PRODUCT REPLACEMENT SYSTEM	62427238	
1831US01	SELF-LOCKING CLIP MECHANISM	62440713	

SCHEDULE 1 CONTINUED

Ref. No.	Title	Application No.	Patent No.
1922US01	BAGGING STATION BAGGING CLIP	62435222	
1997US01	BAGGING CLIP TOOL AND METHOD OF FORMING THE SAME	62435229	
1951US01	STATIC ELECTRICITY SENSING APPLICATIONS IN RETAIL ENVIRONMENT	62457519	
1427US01	DAIRY PRODUCT SPOILAGE DETECTION	62440854	
2031US01	TASK MANAGEMENT IN RETAIL ENVIRONMENT	62456420	
3123US01	FRESH PRODUCTION PLANNER	62430095	
1920US01	SHOPPING CART BAGGING STATION AND METHOD OF FORMING THE SAME	62448481	
2115US01	CHECKOUT STATION BUMPER	62448484	
2170US01	CHECKOUT STATION WITH HANGER HOOK	62456403	
2062US01	PANEL POWERED PRODUCE DISPLAY TABLE	62458817	
2063US01	SELF-POWERED AIR FLOW SYSTEM FOR RETAIL STORE DISPLAY	62458822	
2169US01	HANDLE CLIP MECHANISM	62457526	
1877US01	PROCESSING SELF-CHECKOUT TRANSACTION USING PORTABLE DEVICE LINKED TO MOBILE DEVICE	62462652	
2548US01	RETRACTABLE BAGGING STATION	62426633	
2457US01	CLOUD SECURITY STACK	62450814	
3075US01	AUTOMATED PAINT SELECTING AND MIXING MACHINE	62450205	
1100US01	AUTHENTICATED PURCHASE OF RESTRICTED ITEMS	62289746	
3284US01	PORTABLE HAMMOCK STYLE CHAIR	62449468	
3043US01	NURSING PILLOW AND METHODS FOR EFFICIENT DISPLAY OF NURSING PILLOWS	62464121	