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| <b>PATENT ASSIGNMENT COVER SHEET</b> |
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6652159

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| <b>SUBMISSION TYPE:</b>      | NEW ASSIGNMENT    |
| <b>NATURE OF CONVEYANCE:</b> | SECURITY INTEREST |

**CONVEYING PARTY DATA**

| Name                           | Execution Date |
|--------------------------------|----------------|
| ZEBRA TECHNOLOGIES CORPORATION | 03/31/2021     |

**RECEIVING PARTY DATA**

|                        |                                       |
|------------------------|---------------------------------------|
| <b>Name:</b>           | JPMORGAN CHASE BANK, N.A.             |
| <b>Street Address:</b> | CIB DMO WLO, MAIL CODE NY1-C413, 4CMC |
| <b>City:</b>           | BROOKLYN                              |
| <b>State/Country:</b>  | NEW YORK                              |
| <b>Postal Code:</b>    | 11245-0001                            |

**PROPERTY NUMBERS Total: 75**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 16373232 |
| Application Number: | 16217837 |
| Application Number: | 16224471 |
| Application Number: | 16217296 |
| Application Number: | 16235651 |
| Application Number: | 16193928 |
| Application Number: | 16217918 |
| Application Number: | 16245969 |
| Application Number: | 16721514 |
| Application Number: | 16507900 |
| Application Number: | 16224446 |
| Application Number: | 16167159 |
| Application Number: | 16208153 |
| Application Number: | 15066972 |
| Application Number: | 13127901 |
| Application Number: | 14249295 |
| Application Number: | 14841442 |
| Application Number: | 29680020 |
| Application Number: | 16219691 |
| Application Number: | 16277235 |

PATENT

| <b>Property Type</b> | <b>Number</b> |
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| Application Number:  | 16279410      |
| Application Number:  | 12377490      |
| Application Number:  | 14254851      |
| Application Number:  | 15956275      |
| Application Number:  | 16219679      |
| Application Number:  | 16221718      |
| Application Number:  | 16297110      |
| Application Number:  | 15609823      |
| Application Number:  | 29681900      |
| Application Number:  | 16271349      |
| Application Number:  | 16229698      |
| Application Number:  | 16168545      |
| Application Number:  | 16221816      |
| Application Number:  | 16670446      |
| Application Number:  | 16208214      |
| Application Number:  | 16289325      |
| Application Number:  | 16397516      |
| Application Number:  | 16722168      |
| Application Number:  | 16507581      |
| Application Number:  | 16581055      |
| Application Number:  | 16189574      |
| Application Number:  | 16219701      |
| Application Number:  | 16189783      |
| Application Number:  | 16189790      |
| Application Number:  | 16501530      |
| Application Number:  | 16219696      |
| Application Number:  | 16193820      |
| Application Number:  | 16225167      |
| Application Number:  | 16218969      |
| Application Number:  | 16538356      |
| Application Number:  | 16398240      |
| Application Number:  | 16385909      |
| Application Number:  | 16557660      |
| Application Number:  | 16719541      |
| Application Number:  | 16189519      |
| Application Number:  | 16189593      |
| Application Number:  | 16235835      |
| Application Number:  | 16368521      |

| Property Type       | Number   |
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| Application Number: | 16356911 |
| Application Number: | 16664288 |
| Application Number: | 16739881 |
| Application Number: | 16225802 |
| Application Number: | 16228317 |
| Application Number: | 16443311 |
| Application Number: | 16218101 |
| Application Number: | 16229205 |
| Application Number: | 17047259 |
| Application Number: | 17054398 |
| Application Number: | 29719258 |
| Application Number: | 16736632 |
| Application Number: | 16737708 |
| Application Number: | 16737717 |
| Application Number: | 29719904 |
| Application Number: | 16747516 |
| Application Number: | 16750755 |

**CORRESPONDENCE DATA**

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**ATTORNEY DOCKET NUMBER:** 10003518-50750853

**NAME OF SUBMITTER:** TERRI MASSENGALE

**SIGNATURE:** /Terri Massengale/

**DATE SIGNED:** 04/12/2021

**Total Attachments: 25**

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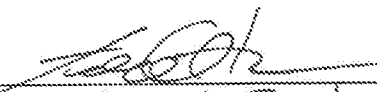
## IP SUPPLEMENT

This IP SUPPLEMENT, dated as of March 31, 2021 is delivered pursuant to and supplements (i) the Security Agreement, dated as of October 27, 2014 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the "Security Agreement"), by and among the Grantors named therein and JPMorgan Chase Bank, N.A., as the Collateral Agent, and (ii) the Patent Security Agreement dated as of July 1, 2019 (the "Agreement") executed by Grantor. Capitalized terms used herein and not otherwise defined herein shall have the meanings ascribed thereto in the Agreement.

Grantor grants to the Collateral Agent (for the benefit of the Secured Parties) a security interest in all of Grantor's right, title and interest in and to the Patent Collateral set forth on Schedule A annexed hereto. All such Patent Collateral shall be deemed to be part of the Patent Collateral and shall be hereafter subject to each of the terms and conditions of the Security Agreement and the Agreement.

IN WITNESS WHEREOF, Grantor has caused this IP Supplement to be duly executed and delivered by its duly authorized officer as of March 31, 2021.

ZEBRA TECHNOLOGIES  
CORPORATION

By:   
Name: Todd A. Beck  
Title: Corporate Counsel &  
Authorized Officer

**SCHEDULE A  
TO  
IP SUPPLEMENT**

| Application Number                    | Country                  | Patent Number | Filed Date | Patent Reference | Assignee Name                  | Title   |
|---------------------------------------|--------------------------|---------------|------------|------------------|--------------------------------|---|
| <b>Zebra Technologies Corporation</b> |                          |               |            |                  |                                |   |
| 16/373232                             | United States of America |               | 4/2/2019   | 152613US02       | Zebra Technologies Corporation | Illumination Assemblies for Use in Barcode Readers and Devices and Methods Associated Therewith |
| 16/217837                             | United States of America |               | 12/12/2018 | 152764US01       | Zebra Technologies Corporation | Method and Apparatus for Calibrating Trailer Monitoring Units                                   |
| 16/224471                             | United States of America |               | 12/18/2018 | 152607US01       | Zebra Technologies Corporation | Method for Improper Product Barcode Detection   |
| 16/217296                             | United States of America |               | 12/12/2018 | 152748US01       | Zebra Technologies Corporation | Method, System and Apparatus for Navigational Assistance  |
| 16/235651                             | United States of America |               | 12/28/2018 | 152444US01       | Zebra Technologies Corporation | Methods and System for Enhanced RFID Direction Finding  |
| 16/193928                             | United States of America |               | 11/16/2018 | 152620US01       | Zebra Technologies Corporation | Wireless Charging Arrangements Associated with Barcode Readers                                  |
| 16/217918                             | United States of America |               | 12/12/2018 | 152614US01       | Zebra Technologies Corporation | Grouping Associated Customers with a Connected Customer   |
| 16/245969                             | United States of America |               | 1/11/2019  | 152929US01       | Zebra Technologies Corporation | Industrial Digital Barcode Scanner  |
| 16/721514                             | United States of America |               | 12/19/2019 | 152928US02       | Zebra Technologies Corporation | Industrial Digital Barcode Scanner  |

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|-----------|--------------------------|----------|------------|------------|--------------------------------|--|
| 16/507900 | United States of America | 10699087 | 7/10/2019  | 152667US01 | Zebra Technologies Corporation | An Alternative Method to Interact with a User Interface Using Standard Barcode Scanners Paired Up with an Augmented Reality Heads Up Display |
| 16/224446 | United States of America | 10685198 | 12/18/2018 | 152726US01 | Zebra Technologies Corporation | Barcode Readers Including Illumination Assemblies with Different Color Lights  |
| 16/167159 | United States of America | 10691905 | 10/22/2018 | 152742US01 | Zebra Technologies Corporation | Data Capture Device  |
| 16/208153 | United States of America | 10740581 | 12/3/2018  | 152725US01 | Zebra Technologies Corporation | Dual Mode Reader and Method of Reading DPM Codes Therewith   |
| 15/066972 | United States of America | 10134149 | 9/12/2014  | 153698US01 | Zebra Technologies Corporation | Image Processing   |
| 13/127901 | United States of America | 8712158  | 7/7/2011   | 153697US01 | Zebra Technologies Corporation | Keypoint Descriptor Generation by Complex Wavelet Analysis   |
| 14/249295 | United States of America | 9152879  | 4/9/2014   | 153697US02 | Zebra Technologies Corporation | Keypoint Descriptor Generation by Complex Wavelet Analysis   |
| 14/841442 | United States of America | 9691003  | 8/31/2015  | 153697US03 | Zebra Technologies Corporation | Keypoint Descriptor Generation by Complex Wavelet Analysis   |
| 29/680020 | United States of America | D873910  | 2/12/2019  | 151203US03 | Zebra Technologies Corporation | Media Processing Device  |
| 16/219691 | United States of America | 10716177 | 12/13/2018 | 152787US01 | Zebra Technologies Corporation | Method and Apparatus for Control of Mobile Automation Apparatus Light Emitters   |



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| 16/277235 | United States of America | 10481238 | 2/15/2019  | 151389US03 | Zebra Technologies Corporation | Method and Apparatus to Generate Site Health Information   |
| 16/279410 | United States of America | 10520582 | 2/19/2019  | 150320US61 | Zebra Technologies Corporation | Method for Iterative Target Location in a Multiple Receiver Target Location System   |
| 12/377490 | United States of America | 8718321  | 6/12/2009  | 153693US01 | Zebra Technologies Corporation | Method of Image Processing   |
| 14/254851 | United States of America | 9424486  | 4/16/2014  | 153693US02 | Zebra Technologies Corporation | Method of Image Processing   |
| 15/956275 | United States of America | 10707908 | 4/18/2018  | 150320US60 | Zebra Technologies Corporation | Method, Apparatus, and Computer Program Product for Evaluating Performance Based on Real-Time Data for Proximity and Movement of Objects |
| 16/219679 | United States of America | 10731970 | 12/13/2018 | 152788US01 | Zebra Technologies Corporation | Method, System and Apparatus for Support Structure Detection   |
| 16/221718 | United States of America | 10748047 | 12/17/2018 | 152604US01 | Zebra Technologies Corporation | Methods and Products for Displaying Encoded Information and Systems Associated Therewith   |
| 16/297110 | United States of America | 10545533 | 3/8/2019   | 152941US01 | Zebra Technologies Corporation | Modular External Frame for Mobile Computing Devices  |
| 15/609823 | United States of America | 10212262 | 5/31/2017  | 150320US57 | Zebra Technologies Corporation | Modular Location Tag for a Real Time Location System Network   |

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| 29/681900 | United States of America | D867446  | 2/28/2019  | 151967US02 | Zebra Technologies Corporation | Ribbon Cartridge   |
| 16/271349 | United States of America | 10643045 | 2/8/2019   | 152946US01 | Zebra Technologies Corporation | Staged Battery Latching Mechanism  |
| 16/229698 | United States of America | 10732380 | 12/21/2018 | 152487US01 | Zebra Technologies Corporation | Swipe Scanning for Variable Focus Imaging Systems  |
| 16/168545 | United States of America | 10687045 | 10/23/2018 | 152211US01 | Zebra Technologies Corporation | Systems and Methods for Idle Time in Commercial Trailer Loading  |
| 16/221816 | United States of America |          | 12/17/2018 | 152623US01 | Zebra Technologies Corporation | Method for Improving the Accuracy of a Convolution Neural Network Training Image Data Set for Loss Prevention Applications |
| 16/670446 | United States of America |          | 10/31/2019 | 152825US01 | Zebra Technologies Corporation | A Method for Automatic Camera Installation Guidance (CIG)  |
| 16/208214 | United States of America |          | 12/3/2018  | 152350US01 | Zebra Technologies Corporation | Antenna Assembly for an RFID Reader  |
| 16/289325 | United States of America |          | 2/28/2019  | 150943US03 | Zebra Technologies Corporation | Cradle Apparatus and Printing Device Interface   |
| 16/397516 | United States of America |          | 4/29/2019  | 150261US04 | Zebra Technologies Corporation | Encoding Module, Associated Encoding Element, Connector, Printer-Encoder and Access Control System                         |

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|-----------|--------------------------|--|------------|------------|--------------------------------|--|
| 16/722168 | United States of America |  | 12/20/2019 | 150312US04 | Zebra Technologies Corporation | Frequency Channel Diversity for Real-Time Locating Systems, Methods, and Computer Program Products |
| 16/507581 | United States of America |  | 7/10/2019  | 151922US02 | Zebra Technologies Corporation | Input Handling For Media Processing Devices  |
| 16/581055 | United States of America |  | 9/24/2019  | 152916US02 | Zebra Technologies Corporation | Magnetically Locking Tethering Device  |
| 16/189574 | United States of America |  | 11/13/2018 | 152151US01 | Zebra Technologies Corporation | Method and Apparatus for Dimensioning Objects  |
| 16/219701 | United States of America |  | 12/13/2018 | 152019US01 | Zebra Technologies Corporation | Method and Apparatus for Dimensioning Objects  |
| 16/189783 | United States of America |  | 11/13/2018 | 152560US01 | Zebra Technologies Corporation | Method and Apparatus for Labeling of Support Structures  |
| 16/189790 | United States of America |  | 11/13/2018 | 152559US01 | Zebra Technologies Corporation | Method and Apparatus for Labeling of Support Structures  |
| 16/501530 | United States of America |  | 4/23/2019  | 150206US05 | Zebra Technologies Corporation | Method and Apparatus for Managing Remote Devices and Accessing Remote Device Data                  |
| 16/219696 | United States of America |  | 12/13/2018 | 152672US01 | Zebra Technologies Corporation | Method and Apparatus for Providing Multimodal Input Data to Client Applications                    |
| 16/193820 | United States of America |  | 11/16/2018 | 152578US01 | Zebra Technologies Corporation | Method and Apparatus for Verification of an Authentication Symbol                                  |

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| 16/225167 | United States of America |  | 12/19/2018 | 152765US01 | Zebra Technologies Corporation | Method and System for a Machine Vision Interface  |
| 16/218969 | United States of America |  | 12/13/2018 | 152621US01 | Zebra Technologies Corporation | Method for Automating Supervisory Signal During Training of a Neural Network Using Barcode Scan   |
| 16/538356 | United States of America |  | 8/12/2019  | 150320US64 | Zebra Technologies Corporation | Method, Apparatus, and Computer Program Product for Collecting and Displaying Sporting Event Data Based on Real Time Data for Proximity and Movement of Objects |
| 16/398240 | United States of America |  | 4/29/2019  | 150760US02 | Zebra Technologies Corporation | Method, Apparatus, and Computer Program Product for Enhancement of Fan Experience Based on Location Data  |
| 16/385909 | United States of America |  | 4/16/2019  | 150320US63 | Zebra Technologies Corporation | Method, Apparatus, and Computer Program Product for Real Time Location System Referencing in Physically and Radio Frequency Challenged Environments             |
| 16/557660 | United States of America |  | 8/30/2019  | 152514US02 | Zebra Technologies Corporation | Method, System and Apparatus for Dimensioning Items   |
| 16/719541 | United States of America |  | 12/18/2019 | 152772US01 | Zebra Technologies Corporation | Method, System and Apparatus for Dynamic Loop Closure in Mapping Trajectories   |

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| 16/189519 | United States of America |  | 11/13/2018 | 152562US01 | Zebra Technologies Corporation | Method, System and Apparatus for Dynamic Staging of Client Computing Devices        |
| 16/189593 | United States of America |  | 11/13/2018 | 152658US01 | Zebra Technologies Corporation | Method, System and Apparatus for Obstacle Handling in Navigational Path Generation  |
| 16/235835 | United States of America |  | 12/28/2018 | 152442US02 | Zebra Technologies Corporation | Methods and System for Enhanced RFID Direction Finding                              |
| 16/368521 | United States of America |  | 3/28/2019  | 150320US62 | Zebra Technologies Corporation | Performance Analytics Based on Real-Time Data for Proximity and Movement of Objects |
| 16/356911 | United States of America |  | 3/18/2019  | 150100US02 | Zebra Technologies Corporation | Platen Wrap Detection   |
| 16/664288 | United States of America |  | 10/25/2019 | 151054US04 | Zebra Technologies Corporation | Printhead Carriers and Adapters   |
| 16/739881 | United States of America |  | 1/10/2020  | 151362US02 | Zebra Technologies Corporation | Printhead Pin Configurations  |
| 16/225802 | United States of America |  | 12/19/2018 | 152774US01 | Zebra Technologies Corporation | System and Method for Detecting a Presence or Absence of Objects in a Trailer       |
| 16/228317 | United States of America |  | 12/20/2018 | 152622US01 | Zebra Technologies Corporation | System and Method to Enhance Image Input for Object Recognition System              |
| 16/443311 | United States of America |  | 6/17/2019  | 151905US02 | Zebra Technologies Corporation | System, Method and Apparatus for Battery Allocation                                 |

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| 16/218101 | United States of America |  | 12/12/2018 | 151999US01 | Zebra Technologies Corporation | Systems and Approaches for Reducing Power Consumption in Industrial Digital Barcode Scanners                 |
| 16/229205 | United States of America |  | 12/21/2018 | 152818US01 | Zebra Technologies Corporation | Systems and Methods for RFID Tag Locationing in Augmented Reality Display                                    |
| 17/047259 | United States of America |  | 4/11/2019  | 152419US02 | Zebra Technologies Corporation | Handheld Symbol Reader with Optical Element to Redirect Central Illumination Axis                            |
| 17/054398 | United States of America |  | 5/2/2019   | 152171US02 | Zebra Technologies Corporation | Systems and Methods for Locating Devices in Venues   |
| 29/719258 | United States of America |  | 1/2/2020   | 153589US01 | Zebra Technologies Corporation | Data Capture Device  |
| 16/736632 | United States of America |  | 1/7/2020   | 153550US01 | Zebra Technologies Corporation | Method to Synchronize a Barcode Decode with a Video Camera to Improve Accuracy of Retail POS Loss Prevention |
| 16/737708 | United States of America |  | 1/8/2020   | 153394US01 | Zebra Technologies Corporation | Doubly Interlaced Sensor Array and Method to Support Low Power Counting and Identification                   |
| 16/737717 | United States of America |  | 1/8/2020   | 153540US01 | Zebra Technologies Corporation | Systems, Apparatuses, and Methods for Triggering Object Recognition and Program Generation via Shelf Sensors |
| 29/719904 | United States of America |  | 1/8/2020   | 153607US01 | Zebra Technologies Corporation | Asset Tracking Equipment Housing   |
| 16/747516 | United States of America |  | 1/20/2020  | 153595US01 | Zebra Technologies Corporation | Methods and Apparatus to Secure Communication Devices to Wristbands  |

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| 16/750755 | United States of America |  | 1/23/2020 | 153446US01 | Zebra Technologies Corporation | Scheduled Connect and Disconnect of Cordless Scanner   |
| 16/773607 | United States of America |  | 1/27/2020 | 153035US01 | Zebra Technologies Corporation | Interleaved Image Capture for Dimensioning System  |
| 16/773506 | United States of America |  | 1/27/2020 | 153443US01 | Zebra Technologies Corporation | Methods for Unit Load Device (ULD) Localization  |
| 16/774604 | United States of America |  | 1/28/2020 | 153027US01 | Zebra Technologies Corporation | System and Method for Lesion Monitoring  |
| 16/774115 | United States of America |  | 1/28/2020 | 153414US01 | Zebra Technologies Corporation | Methods and Apparatus to Image Objects Using Docked Handheld Imagers   |
| 16/776054 | United States of America |  | 1/29/2020 | 153018US01 | Zebra Technologies Corporation | Method, System and Apparatus for Mobile Locationing  |
| 16/775452 | United States of America |  | 1/29/2020 | 153424US01 | Zebra Technologies Corporation | Optical Arrangement for Wide Angle Imaging Lens with Front Entrance Pupil  |
| 16/776242 | United States of America |  | 1/29/2020 | 153453US01 | Zebra Technologies Corporation | Method and Apparatus for Streamlined Battery Swapping  |
| 16/777351 | United States of America |  | 1/30/2020 | 150320US66 | Zebra Technologies Corporation | Method, Apparatus, and Computer Program Product for Employing a Spatial Association Model in a Real Time Location System |
| 16/779477 | United States of America |  | 1/31/2020 | 153451US01 | Zebra Technologies Corporation | Methods for Detecting if a Time of Flight (TOF) Sensor is Looking Into a Container                                       |
| 16/788522 | United States of America |  | 2/12/2020 | 153545US01 | Zebra Technologies Corporation | Method for Detecting Trailer Status Using Combined 3D Algorithms and 2D Machine Learning Models                          |

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| 16/795243 | United States of America |  | 2/19/2020 | 153483US01 | Zebra Technologies Corporation | Three-Dimensional (3D) Imaging Systems and Methods for Detecting and Dimensioning a Vehicle Storage Area  |
| 16/796524 | United States of America |  | 2/20/2020 | 153267US01 | Zebra Technologies Corporation | Mount System for a Monitoring Device  |
| 29/725023 | United States of America |  | 2/21/2020 | 153590US01 | Zebra Technologies Corporation | Presentation Cradle   |
| 29/725028 | United States of America |  | 2/21/2020 | 153591US01 | Zebra Technologies Corporation | Charging Station  |
| 16/799512 | United States of America |  | 2/24/2020 | 153454US01 | Zebra Technologies Corporation | Methods and Apparatus to Indicate Off-Platter Weigh Conditions  |
| 16/799317 | United States of America |  | 2/24/2020 | 153467US01 | Zebra Technologies Corporation | Object Recognition Scanning Systems and Methods for Implementing Artificial Intelligence Based Item Determination                                 |
| 16/800116 | United States of America |  | 2/25/2020 | 150343US05 | Zebra Technologies Corporation | Methods, Apparatuses, and Computer Program Products for Implementing Cloud Connected Printers and an Adaptive Printer-Based Application Framework |
| 16/800780 | United States of America |  | 2/25/2020 | 153308US01 | Zebra Technologies Corporation | Depth-Based Data Capture System Configuration   |
| 16/800786 | United States of America |  | 2/25/2020 | 153312US01 | Zebra Technologies Corporation | Parallel Data Capture System  |
| 16/800797 | United States of America |  | 2/25/2020 | 153317US01 | Zebra Technologies Corporation | Data Capture System   |
| 16/800805 | United States of America |  | 2/25/2020 | 153329US01 | Zebra Technologies Corporation | Transporter Segmentation for Data Capture System  |



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| 16/800866 | United States of America |  | 2/25/2020 | 153426US01 | Zebra Technologies Corporation | Optical Arrangement for Small Size Wide Angle Auto Focus Imaging Lens for High Resolution Sensors                     |
| 29/725704 | United States of America |  | 2/26/2020 | 153502US01 | Zebra Technologies Corporation | Mobile Computing Device   |
| 29/725713 | United States of America |  | 2/26/2020 | 153503US01 | Zebra Technologies Corporation | Battery   |
| 16/801792 | United States of America |  | 2/26/2020 | 153518US01 | Zebra Technologies Corporation | Three-Dimensional (3D) Imaging Systems and Methods for Virtual Grading of Package Walls in Commercial Trailer Loading |
| 16/803746 | United States of America |  | 2/27/2020 | 153519US01 | Zebra Technologies Corporation | Optical Arrangement in Machine Vision System with Diffusive and Direct Illumination for DPM Indicia                   |
| 16/803662 | United States of America |  | 2/27/2020 | 153524US01 | Zebra Technologies Corporation | Systems and Methods for Adaptive Energy Storage in an Illumination System   |
| 16/803650 | United States of America |  | 2/27/2020 | 153530US01 | Zebra Technologies Corporation | Systems and Methods for an Adaptive Power Drive in an Illumination System   |
| 62/983132 | United States of America |  | 2/28/2020 | 153457US01 | Zebra Technologies Corporation | Perforations Between Media Units on a Synthetic Liner   |
| 16/805089 | United States of America |  | 2/28/2020 | 153508US01 | Zebra Technologies Corporation | Identified Object Based Imaging Scanner Optimization  |
| 16/807909 | United States of America |  | 3/3/2020  | 153570US01 | Zebra Technologies Corporation | Interleaved Frame Types Optimized for Vision Capture and Barcode Capture  |

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| 16/810566 | United States of America |  | 3/5/2020  | 153333US01 | Zebra Technologies Corporation | Smart Shelf Systems and Methods of Operating the Same                                 |
| 16/810110 | United States of America |  | 3/5/2020  | 153393US01 | Zebra Technologies Corporation | Dynamic Device Configuration and Deployment   |
| 16/821504 | United States of America |  | 3/17/2020 | 153314US01 | Zebra Technologies Corporation | Transporter Segmentation for Data Capture System                                      |
| 16/824038 | United States of America |  | 3/19/2020 | 153287US01 | Zebra Technologies Corporation | Automated Chute Fullness Detection  |
| 16/824368 | United States of America |  | 3/19/2020 | 153497US01 | Zebra Technologies Corporation | Intelligent Method of Tracking Focus in Machine Vision Applications                   |
| 16/823553 | United States of America |  | 3/19/2020 | 153600US01 | Zebra Technologies Corporation | Bioptic Reader Assembly with Video Upgrade Module                                     |
| 16/825666 | United States of America |  | 3/20/2020 | 152163US02 | Zebra Technologies Corporation | Output Hopper for Media Processing Devices  |
| 16/827000 | United States of America |  | 3/23/2020 | 153588US01 | Zebra Technologies Corporation | Multiple Field of View (FOV) Vision System  |
| 16/828692 | United States of America |  | 3/24/2020 | 153566US01 | Zebra Technologies Corporation | Methods for Unit Load Device (ULD) Door Tarp Detection                                |
| 16/832775 | United States of America |  | 3/27/2020 | 153681US01 | Zebra Technologies Corporation | Methods for Determining Unit Load Device (ULD) Container Type using Template Matching |
| 16/834949 | United States of America |  | 3/30/2020 | 153610US01 | Zebra Technologies Corporation | Method, System and Apparatus for Data Capture Illumination Control                    |
| 16/838911 | United States of America |  | 4/2/2020  | 152946US02 | Zebra Technologies Corporation | Staged Battery Latching Mechanism   |
| 16/842160 | United States of America |  | 4/7/2020  | 153501US01 | Zebra Technologies Corporation | Detection of Calibration Errors   |

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| 16/844829 | United States of America |  | 4/9/2020  | 152709US01 | Zebra Technologies Corporation | Automated Contextualization of Operational Observations                                   |
| 16/844755 | United States of America |  | 4/9/2020  | 153651US01 | Zebra Technologies Corporation | Media Cartridge   |
| 29/730945 | United States of America |  | 4/9/2020  | 153653US01 | Zebra Technologies Corporation | Media Cartridge   |
| 29/730946 | United States of America |  | 4/9/2020  | 153787US01 | Zebra Technologies Corporation | Media Processing Device   |
| 16/846918 | United States of America |  | 4/13/2020 | 153601US01 | Zebra Technologies Corporation | Communication Maximum Charge Current from Cradle to Scanner Over a Contact Less Interface |
| 16/851991 | United States of America |  | 4/17/2020 | 150940US04 | Zebra Technologies Corporation | Modular Print Drive Assembly and Platen Assembly  |
| 16/852248 | United States of America |  | 4/17/2020 | 153389US01 | Zebra Technologies Corporation | System and Method for Extracting Target Data from Labels                                  |
| 16/855516 | United States of America |  | 4/22/2020 | 153485US01 | Zebra Technologies Corporation | Laser Printhead Raster Path Configuration for Modifying a Rewritable Label                |
| 16/855567 | United States of America |  | 4/22/2020 | 153489US01 | Zebra Technologies Corporation | Laser Printhead Raster Path Configuration for Modifying a Rewritable Label                |
| 16/855644 | United States of America |  | 4/22/2020 | 153499US01 | Zebra Technologies Corporation | Configuring a Sealed Enclosure for a Laser Printhead                                      |
| 16/855693 | United States of America |  | 4/22/2020 | 153500US01 | Zebra Technologies Corporation | Laser Containment Structure for a Laser Printhead   |
| 16/855742 | United States of America |  | 4/22/2020 | 153539US01 | Zebra Technologies Corporation | Control of Laser Printhead for Writing or Erasing Content                                 |

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| 16/856913 | United States of America |  | 4/23/2020 | 153224US01 | Zebra Technologies Corporation | Systems and Methods for Identifying Potential Shrink Events  |
| 16/856993 | United States of America |  | 4/23/2020 | 153397US01 | Zebra Technologies Corporation | Three-Dimensional (3D) Imaging Systems and Methods for Determining Vehicle Storage Areas and Vehicle Door Statuses |
| 16/856959 | United States of America |  | 4/23/2020 | 153644US01 | Zebra Technologies Corporation | Method for Accurate Object Tracking With Color Camera In Multi Planar Scanners                                     |
| 16/860960 | United States of America |  | 4/28/2020 | 153688US01 | Zebra Technologies Corporation | Systems and Methods of Detecting Scan Avoidance Events   |
| 16/861008 | United States of America |  | 4/28/2020 | 153769US01 | Zebra Technologies Corporation | Systems and Methods of Detecting Scan Avoidance Events   |
| 16/861038 | United States of America |  | 4/28/2020 | 153770US01 | Zebra Technologies Corporation | Systems and Methods of Detecting Scan Avoidance Events   |
| 16/861781 | United States of America |  | 4/29/2020 | 153538US01 | Zebra Technologies Corporation | Reference Surface Detection for Mobile Dimensioning  |
| 16/863722 | United States of America |  | 4/30/2020 | 153268US01 | Zebra Technologies Corporation | Print Head Mechanism   |
| 29/734905 | United States of America |  | 5/15/2020 | 153705US01 | Zebra Technologies Corporation | Mobile Computing Device  |
| 16/874880 | United States of America |  | 5/15/2020 | 153710US01 | Zebra Technologies Corporation | Tilt Sensor  |
| 29/735385 | United States of America |  | 5/20/2020 | 151203US05 | Zebra Technologies Corporation | Media Processing Device  |
| 16/880734 | United States of America |  | 5/21/2020 | 153294US01 | Zebra Technologies Corporation | Streamlined Record Association and Updates   |

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| 16/885489 | United States of America |  | 5/28/2020 | 153460US01 | Zebra Technologies Corporation | Automated Audio Assembly Performance Assessment  |
| 16/885990 | United States of America |  | 5/28/2020 | 153533US01 | Zebra Technologies Corporation | Item Collection Guidance System  |
| 16/885550 | United States of America |  | 5/28/2020 | 153567US01 | Zebra Technologies Corporation | System and Method for Dimensioning Objects   |
| 16/886028 | United States of America |  | 5/28/2020 | 153656US01 | Zebra Technologies Corporation | Failure Mitigation Apparatus for Wearable Display Devices  |
| 16/886401 | United States of America |  | 5/28/2020 | 153738US01 | Zebra Technologies Corporation | Back Input/Output Interface Design   |
| 16/886385 | United States of America |  | 5/28/2020 | 153739US01 | Zebra Technologies Corporation | Common Bottom Input/Output Interface Design for Mobile Computer  |
| 16/886368 | United States of America |  | 5/28/2020 | 153743US01 | Zebra Technologies Corporation | Attachment Interface for Multi-Purpose Use   |
| 16/888273 | United States of America |  | 5/29/2020 | 153132US01 | Zebra Technologies Corporation | Barcode Readers with 3D Camera(s)  |
| 16/887059 | United States of America |  | 5/29/2020 | 153488US01 | Zebra Technologies Corporation | Scalable Assistive Data Generation and Delivery  |
| 16/888387 | United States of America |  | 5/29/2020 | 153574US01 | Zebra Technologies Corporation | Using Barcodes to Determine Item Dimensions  |
| 16/888418 | United States of America |  | 5/29/2020 | 153696US01 | Zebra Technologies Corporation | Method to Generate Neural Network Training Image Annotations   |
| 16/887192 | United States of America |  | 5/29/2020 | 153713US01 | Zebra Technologies Corporation | Method of Detecting a Scan Avoidance Event When an Item is Passed Through the Field of View of the Scanner |
| 16/888070 | United States of America |  | 5/29/2020 | 153719US01 | Zebra Technologies Corporation | Compact Self-Checkout Kiosks   |

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| 16/888319 | United States of America |  | 5/29/2020 | 153721US01 | Zebra Technologies Corporation | Self-Checkout Kiosk  |
| 16/887256 | United States of America |  | 5/29/2020 | 153748US01 | Zebra Technologies Corporation | Optical Arrangement for Small Size Wide Angle Auto Focus Imaging Lens for High Resolution Sensors                                      |
| 16/897631 | United States of America |  | 6/10/2020 | 153378US01 | Zebra Technologies Corporation | Radio-Frequency Identification (RFID) Locationing Systems and Methods for Locating One or More Items Positioned Within a Defined Space |
| 16/898184 | United States of America |  | 6/10/2020 | 153863US01 | Zebra Technologies Corporation | Methods and Apparatus to Read Barcodes on Reflective Surfaces  |
| 16/899355 | United States of America |  | 6/11/2020 | 153599US01 | Zebra Technologies Corporation | Estimating Physiological Load From Location Data   |
| 16/902026 | United States of America |  | 6/15/2020 | 152726US02 | Zebra Technologies Corporation | Barcode Readers Including Illumination Assemblies with Different Color Lights  |
| 16/901868 | United States of America |  | 6/15/2020 | 153905US01 | Zebra Technologies Corporation | Three-Dimensional Sensor Acuity Recovery Assistance  |
| 29/738152 | United States of America |  | 6/15/2020 | 153947US01 | Zebra Technologies Corporation | Mobile Dimensioning Device   |
| 16/905606 | United States of America |  | 6/18/2020 | 153755US01 | Zebra Technologies Corporation | Method for Calculating Real Time Package Density   |
| 29/738811 | United States of America |  | 6/19/2020 | 153776US01 | Zebra Technologies Corporation | Data Capture Device  |
| 29/738813 | United States of America |  | 6/19/2020 | 153777US01 | Zebra Technologies Corporation | Data Capture Device  |
| 29/738815 | United States of America |  | 6/19/2020 | 153778US01 | Zebra Technologies Corporation | Data Capture Device  |
| 29/738816 | United States of America |  | 6/19/2020 | 153779US01 | Zebra Technologies Corporation | Data Capture Device  |

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| 16/906173 | United States of America |  | 6/19/2020 | 153855US01 | Zebra Technologies Corporation | Systems and Methods for Determining Facility Exposure to a Source Condition                       |
| 16/908409 | United States of America |  | 6/22/2020 | 152742US02 | Zebra Technologies Corporation | Field-Upgradable Barcode Readers  |
| 16/912393 | United States of America |  | 6/25/2020 | 153711US01 | Zebra Technologies Corporation | Method, System and Apparatus for Cloud-Based Printing   |
| 29/739481 | United States of America |  | 6/25/2020 | 153741US01 | Zebra Technologies Corporation | Trigger Handle  |
| 16/912420 | United States of America |  | 6/25/2020 | 153745US01 | Zebra Technologies Corporation | Focus Stabilization of Imaging System with Variable Focus Lens                                    |
| 16/917488 | United States of America |  | 6/30/2020 | 153742US01 | Zebra Technologies Corporation | Systems and Methods for Detecting Potential Shrink Events via RFID Technology                     |
| 16/926246 | United States of America |  | 7/10/2020 | 153630US01 | Zebra Technologies Corporation | Accessory Configuration for Enhancing Wireless Signal Reception of a User Device                  |
| 29/741607 | United States of America |  | 7/14/2020 | 151854US02 | Zebra Technologies Corporation | Battery Pack  |
| 16/928836 | United States of America |  | 7/14/2020 | 153507US01 | Zebra Technologies Corporation | Barcode Scanning Based on Gesture Detection and Analysis  |
| 16/928792 | United States of America |  | 7/14/2020 | 153827US01 | Zebra Technologies Corporation | Method to Eliminate RFID Cross Reads for RFID Point of Sale Scanners Using Imager Object Tracking |
| 29/741842 | United States of America |  | 7/16/2020 | 153767US01 | Zebra Technologies Corporation | Battery   |
| 16/932174 | United States of America |  | 7/17/2020 | 153512US01 | Zebra Technologies Corporation | Mixed Depth Object Detection  |

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| 16/932198 | United States of America |  | 7/17/2020 | 153786US01 | Zebra Technologies Corporation | Directional Guidance and Layout Compliance for Item Collection  |
| 16/942468 | United States of America |  | 7/29/2020 | 151779US03 | Zebra Technologies Corporation | Method and Apparatus to Communicate Data Associated with Media Processing Devices   |
| 29/744673 | United States of America |  | 7/30/2020 | 153828US01 | Zebra Technologies Corporation | Mobile Computing Device   |
| 16/945498 | United States of America |  | 7/31/2020 | 153832US01 | Zebra Technologies Corporation | Systems and Methods to Optimize Imaging Settings for a Machine Vision Job   |
| 16/945452 | United States of America |  | 7/31/2020 | 153833US01 | Zebra Technologies Corporation | Systems and Methods for Creating Machine Vision Jobs Including Barcode Scanning   |
| 16/945392 | United States of America |  | 7/31/2020 | 153834US01 | Zebra Technologies Corporation | Systems and Methods for Facilitating Selection of Tools for Machine Vision Jobs   |
| 16/945560 | United States of America |  | 7/31/2020 | 153835US01 | Zebra Technologies Corporation | Systems and Methods to Optimize Performance of a Machine Vision System  |
| 16/945291 | United States of America |  | 7/31/2020 | 153917US01 | Zebra Technologies Corporation | Automatic Identification and Presentation of Edges, Shapes and Unique Objects in an Image Used for a Machine Vision Job Setup |
| 16/945361 | United States of America |  | 7/31/2020 | 153929US01 | Zebra Technologies Corporation | Systems and Methods to Optimize Performance of a Machine Vision System  |
| 16/944723 | United States of America |  | 7/31/2020 | 153969US01 | Zebra Technologies Corporation | Aggregation of Beacon Data for Network Load Mitigation  |



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| 16/945536 | United States of America |  | 7/31/2020 | 153986US01 | Zebra Technologies Corporation | Inadvertent Subsequent Scan Prevention for Symbology Reader with Weighing Platter                                   |
| 16/985832 | United States of America |  | 8/5/2020  | 152725US02 | Zebra Technologies Corporation | Dual Mode Reader and Method of Reading DPM Codes Therewith  |
| 29/745640 | United States of America |  | 8/7/2020  | 153831US01 | Zebra Technologies Corporation | Battery   |
| 16/995998 | United States of America |  | 8/18/2020 | 153736US01 | Zebra Technologies Corporation | Systems and Methods for Automatically Generating Sensor Layouts   |
| 16/996244 | United States of America |  | 8/18/2020 | 153756US01 | Zebra Technologies Corporation | Rapid Location-Based Association of Carriers and Items  |
| 29/747547 | United States of America |  | 8/24/2020 | 153788US01 | Zebra Technologies Corporation | Power Pack  |
| 17/005127 | United States of America |  | 8/27/2020 | 153511US01 | Zebra Technologies Corporation | Modular Inventory Management System   |
| 17/005105 | United States of America |  | 8/27/2020 | 154042US01 | Zebra Technologies Corporation | Methods and Systems for Establishing a Bi-Directional Communication Link Between a Host Device and a Barcode Reader |
| 17/006628 | United States of America |  | 8/28/2020 | 153829US01 | Zebra Technologies Corporation | Autofocus Optical Arrangements and Assemblies Including Voice Coil Motors   |
| 17/009538 | United States of America |  | 9/1/2020  | 153859US01 | Zebra Technologies Corporation | Optical Arrangement of Adaptive Illumination System with Variable Illuminating Angle and VCM Motor                  |
| 29/749168 | United States of America |  | 9/3/2020  | 152921US02 | Zebra Technologies Corporation | Media Processing Device   |

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| 17/011688 | United States of America |  | 9/3/2020  | 153170US02 | Zebra Technologies Corporation | Barcode Reader with Off-Platter Detection   |
| 17/011527 | United States of America |  | 9/3/2020  | 153420US01 | Zebra Technologies Corporation | Event Notification Based on Editing a Transponder Identifier  |
| 17/017416 | United States of America |  | 9/10/2020 | 153903US01 | Zebra Technologies Corporation | Biopic Barcode Reader   |
| 29/750293 | United States of America |  | 9/11/2020 | 154072US01 | Zebra Technologies Corporation | Mobile Computing Device   |
| 29/750521 | United States of America |  | 9/14/2020 | 153012US02 | Zebra Technologies Corporation | Asset Tracking Equipment Housing  |
| 17/020174 | United States of America |  | 9/14/2020 | 153998US01 | Zebra Technologies Corporation | Removable Battery Pack  |
| 17/020320 | United States of America |  | 9/14/2020 | 153999US01 | Zebra Technologies Corporation | Mobile Device and Assembly Process  |
| 63/078081 | United States of America |  | 9/14/2020 | 154082US01 | Zebra Technologies Corporation | Wearable Device   |
| 17/023110 | United States of America |  | 9/16/2020 | 153899US01 | Zebra Technologies Corporation | Stylus Feature for Handheld Barcode Scanner   |
| 17/026923 | United States of America |  | 9/21/2020 | 154085US01 | Zebra Technologies Corporation | Devices Having Protective Screens Selectively Positionable to Switch Devices Between User Interface Modes and Methods of Operating the Same |
| 29/752153 | United States of America |  | 9/25/2020 | 151967US04 | Zebra Technologies Corporation | Ribbon Cartridge  |
| 29/752231 | United States of America |  | 9/25/2020 | 152944US02 | Zebra Technologies Corporation | Battery   |
| 17/034460 | United States of America |  | 9/28/2020 | 153300US02 | Zebra Technologies Corporation | Data Capture Device   |
| 17/036310 | United States of America |  | 9/29/2020 | 153888US01 | Zebra Technologies Corporation | PPE Verification System at POS  |

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| 17036324  | United States of America |  | 9/29/2020  | 153952US01 | Zebra Technologies Corporation | Detection of Medically Related Events at a Point of Sale  |
| 29/753673 | United States of America |  | 10/1/2020  | 152920US02 | Zebra Technologies Corporation | Media Processing Device   |
| 17/061190 | United States of America |  | 10/1/2020  | 153906US01 | Zebra Technologies Corporation | Reestablishment Control for Dropped Calls   |
| 17/063308 | United States of America |  | 10/5/2020  | 153762US01 | Zebra Technologies Corporation | Method and Apparatus for In-Field Stereo Calibration  |
| 17/064985 | United States of America |  | 10/7/2020  | 150062US07 | Zebra Technologies Corporation | Portable Printer  |
| 29/754286 | United States of America |  | 10/8/2020  | 154112US01 | Zebra Technologies Corporation | Media Cartridge   |
| 17/067023 | United States of America |  | 10/9/2020  | 152764US02 | Zebra Technologies Corporation | Method and Apparatus for Recording Impact Events Associated with Trailer Monitoring Units       |
| 17/071593 | United States of America |  | 10/15/2020 | 153784US01 | Zebra Technologies Corporation | Media Cartridge and Media Processing Device   |
| 17/071615 | United States of America |  | 10/15/2020 | 153826US01 | Zebra Technologies Corporation | Engagement Mechanisms   |
| 17/076611 | United States of America |  | 10/21/2020 | 154065US01 | Zebra Technologies Corporation | Lid Subsystem for Media Processing Devices  |
| 17/078823 | United States of America |  | 10/23/2020 | 153515US02 | Zebra Technologies Corporation | Parallax-Tolerant Panoramic Image Generation  |
| 17/080750 | United States of America |  | 10/26/2020 | 152613US03 | Zebra Technologies Corporation | System for Facilitating Customer Interactions in Fitting Rooms                                  |
| 17/080436 | United States of America |  | 10/26/2020 | 152825US02 | Zebra Technologies Corporation | Illumination Assemblies for Use in Barcode Readers and Devices and Methods Associated Therewith |
|           |                          |  |            |            |                                | Systems and Methods for Automatic Camera Installation Guidance (CIG)                            |

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| 17/080277 | United States of America |  | 10/26/2020 | 152929US02 | Zebra Technologies Corporation | Industrial Digital Barcode Scanner   |
| 17/080602 | United States of America |  | 10/26/2020 | 154133US01 | Zebra Technologies Corporation | Pin Board Interface  |
| 17/081412 | United States of America |  | 10/27/2020 | 154055US01 | Zebra Technologies Corporation | Barrier Detection for Support Structures   |
| 17/086779 | United States of America |  | 11/2/2020  | 153918US01 | Zebra Technologies Corporation | Automated Mobile Device Staging System   |
| 17/088453 | United States of America |  | 11/3/2020  | 153922US01 | Zebra Technologies Corporation | Item Placement Detection and Optimization in Material Handling Systems                                       |
| 17/089889 | United States of America |  | 11/5/2020  | 153785US01 | Zebra Technologies Corporation | Indicator Assembly for Media Processing Devices  |
| 17/091910 | United States of America |  | 11/6/2020  | 153901US01 | Zebra Technologies Corporation | Systems and Methods for Finding Lost Devices   |
| 17/094951 | United States of America |  | 11/11/2020 | 154060US01 | Zebra Technologies Corporation | Object Classification for Autonomous Navigation Systems  |
| 17/099748 | United States of America |  | 11/16/2020 | 153550US02 | Zebra Technologies Corporation | Method to Synchronize a Barcode Decode with a Video Camera to Improve Accuracy of Retail POS Loss Prevention |
| 17/104100 | United States of America |  | 11/25/2020 | 153885US01 | Zebra Technologies Corporation | Devices, Systems, and Methods for Detecting Multiple Devices Within a Predetermined Proximity                |
| 17/105158 | United States of America |  | 11/25/2020 | 154037US01 | Zebra Technologies Corporation | Monitoring and Feedback System for Processing Container Loads to Direct Performance Outcomes                 |
| 17/113741 | United States of America |  | 12/7/2020  | 154064US01 | Zebra Technologies Corporation | On-Site Calibration for Mobile Automation Apparatus  |

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| 17/115450  | United States of America |  | 12/8/2020  | 153844US01 | Zebra Technologies Corporation | Contactless Item Delivery Confirmation   |
| 17/119,658 | United States of America |  | 12/11/2020 | 153933US01 | Zebra Technologies Corporation | Devices, Systems and Methods for Establishing a Bidirectional Link Between Devices |
| 17/127526  | United States of America |  | 12/18/2020 | 153997US01 | Zebra Technologies Corporation | Determining a Flight Path of an Object   |
| 17/118046  | United States of America |  | 12/10/2020 | 154005US01 | Zebra Technologies Corporation | Provisioning System for Cloud-Connected Printers                                   |