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| PATENT ASSIGNMENT COVER SHEET |
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 Stylesheet Version v1.2

EPAS ID: PAT4657803

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|-----------------------------------|---|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | SECURITY INTEREST |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| ZIH CORP. | 09/07/2017 |
| RECEIVING PARTY DATA | |
| Name: | JPMORGAN CHASE BANK, N.A., AS THE SUCCESSOR AGENT |
| Street Address: | CIB DMO WLO, MAIL CODE NY1-C413, 4CMC |
| City: | BROOKLYN |
| State/Country: | NEW YORK |
| Postal Code: | 11245 |
| PROPERTY NUMBERS Total: 97 | |
| Property Type | Number |
| Patent Number: | 9211705 |
| Patent Number: | 9218175 |
| Patent Number: | 9329816 |
| Patent Number: | 9370939 |
| Patent Number: | 9384683 |
| Patent Number: | 9400624 |
| Patent Number: | 9454885 |
| Patent Number: | 9475319 |
| Patent Number: | 9487022 |
| Patent Number: | 9493017 |
| Patent Number: | 9503592 |
| Patent Number: | 9513856 |
| Patent Number: | 9517417 |
| Patent Number: | 9519046 |
| Patent Number: | 9520630 |
| Patent Number: | 9699278 |
| Patent Number: | 9550371 |
| Patent Number: | 9550380 |
| Patent Number: | 9561646 |
| Patent Number: | 9600463 |

PATENT

| Property Type | Number |
|----------------------------|---------------|
| Patent Number: | 9604475 |
| Patent Number: | 9623690 |
| Patent Number: | 9626616 |
| Patent Number: | 9632734 |
| Patent Number: | 9661455 |
| Patent Number: | 9662899 |
| Patent Number: | 9662919 |
| Patent Number: | 9665841 |
| Patent Number: | 8601449 |
| Patent Number: | 9667287 |
| Patent Number: | 9668164 |
| Patent Number: | 9672449 |
| Patent Number: | D771051 |
| Patent Number: | D774129 |
| Patent Number: | D785561 |
| Application Number: | 14561868 |
| Application Number: | 14556753 |
| Application Number: | 14523449 |
| Application Number: | 14631052 |
| Application Number: | 14630499 |
| Application Number: | 14556762 |
| Application Number: | 14642592 |
| Application Number: | 14681958 |
| Application Number: | 14800173 |
| Application Number: | 14725350 |
| Application Number: | 14725351 |
| Application Number: | 14725354 |
| Application Number: | 14732623 |
| Application Number: | 14731210 |
| Application Number: | 14729669 |
| Application Number: | 14732369 |
| Application Number: | 14732141 |
| Application Number: | 14934919 |
| Application Number: | 14844584 |
| Application Number: | 14861455 |
| Application Number: | 14862683 |
| Application Number: | 14729761 |
| Application Number: | 14880026 |

| Property Type | Number |
|----------------------|---------------|
| Application Number: | 14683973 |
| Application Number: | 15017340 |
| Application Number: | 15044289 |
| Application Number: | 15053874 |
| Application Number: | 14577201 |
| Application Number: | 15083390 |
| Application Number: | 15132736 |
| Application Number: | 15091769 |
| Application Number: | 15147149 |
| Application Number: | 15068533 |
| Application Number: | 15170489 |
| Application Number: | 14670961 |
| Application Number: | 15185567 |
| Application Number: | 15211615 |
| Application Number: | 15247413 |
| Application Number: | 15246999 |
| Application Number: | 15273363 |
| Application Number: | 15281570 |
| Application Number: | 15287096 |
| Application Number: | 15339173 |
| Application Number: | 14832359 |
| Application Number: | 15349606 |
| Application Number: | 15347564 |
| Application Number: | 14874120 |
| Application Number: | 15428781 |
| Application Number: | 15397504 |
| Application Number: | 15396110 |
| Application Number: | 15455680 |
| Application Number: | 15455643 |
| Application Number: | 15462393 |
| Application Number: | 15462474 |
| Application Number: | 15396106 |
| Application Number: | 15489335 |
| Application Number: | 15492537 |
| Application Number: | 15491577 |
| Application Number: | 15490271 |
| Application Number: | 15596717 |
| Application Number: | 15597895 |

| Property Type | Number |
|---------------------|----------|
| Application Number: | 29583093 |

CORRESPONDENCE DATA

Fax Number: (800)494-7512
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| | |
|--------------------------------|------------------------|
| ATTORNEY DOCKET NUMBER: | F173458 PAT ZIH TO JPM |
| NAME OF SUBMITTER: | THERESA VOLANO |
| SIGNATURE: | /Theresa Volano/ |
| DATE SIGNED: | 10/25/2017 |

Total Attachments: 10

source=#90141659v2 - (Patent Security Agreement (ZIH Corp.).Filing)#page2.tif
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source=#90141659v2 - (Patent Security Agreement (ZIH Corp.).Filing)#page11.tif

PATENT SECURITY AGREEMENT

September 7, 2017

WHEREAS, **ZIH Corp.**, a Delaware corporation (“**Grantor**”), owns and uses in its business, and will in the future adopt and so use, various intangible assets, including the Patent Collateral (as defined below);

WHEREAS, the Grantor is party to a 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 Grantor, the other grantors party thereto and JPMorgan Chase Bank, N.A., as the Collateral Agent for the Secured Parties (in such capacity, the “**Collateral Agent**”) pursuant to which the Grantor granted a security interest to the Collateral Agent (for the benefit of the Secured Parties) in the Patent Collateral (as defined below) and is required to execute and deliver this Patent Security Agreement (the “**Agreement**”).

Unless otherwise defined herein, terms defined in the Security Agreement and used herein have the meaning given to them in the Security Agreement.

NOW, THEREFORE, in consideration of the foregoing and for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, subject to the terms and conditions of the Security Agreement, to evidence further the security interest granted by Grantor to the Collateral Agent pursuant to the Security Agreement, Grantor hereby 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 following, in each case whether now owned or existing or hereafter acquired, developed, created or arising and wherever located (collectively, the “**Patent Collateral**”), other than Excluded Property:

- (i) all patents and patent applications and rights and interests in patents and patent applications under any domestic or foreign law that are presently, or in the future may be, owned or held by such Grantor and all patents and patent applications and all re-issues, divisions, continuations, renewals, extensions and continuations in-part thereof and rights, title and interests in patents and patent applications under any domestic law that are presently, or in the future may be, owned by such Grantor in whole or in part (including, without limitation, the patents and patent applications set forth on Schedule A annexed hereto);
- (ii) all proceeds, products, rents and profits of or from any and all of the foregoing Patent Collateral and, to the extent not otherwise included, all payments under insurance (whether or not the Collateral Agent is the loss payee thereof), or any indemnity, warranty or guaranty, payable by reason of loss or damage to or otherwise with respect to any of the foregoing Patent Collateral; and
- (iii) the right to sue or otherwise recover for any past, present and future infringement, dilution, misappropriation, or other violation or impairment of any of the foregoing.

Grantor does hereby further acknowledge and affirm that the rights and remedies of the Collateral Agent with respect to the security interest in the Patent Collateral granted


hereby are more fully set forth in the Security Agreement. Section 1 of the Security Agreement is hereby incorporated by reference. In the event that any provision of this Agreement is deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall control.

THIS AGREEMENT SHALL BE CONSTRUED IN ACCORDANCE WITH AND GOVERNED BY THE LAW OF THE STATE OF NEW YORK, WITHOUT REGARD TO CONFLICT OF LAWS PRINCIPLES THEREOF TO THE EXTENT SUCH PRINCIPLES WOULD CAUSE THE APPLICATION OF THE LAW OF ANOTHER STATE, EXCEPT TO THE EXTENT THAT THE UCC PROVIDES THAT THE PERFECTION OF THE SECURITY INTEREST HEREUNDER, OR REMEDIES HEREUNDER, IN RESPECT OF ANY PARTICULAR COLLATERAL ARE GOVERNED BY THE LAWS OF A JURISDICTION OTHER THAN THE STATE OF NEW YORK, IN WHICH CASE THE LAWS OF SUCH JURISDICTION SHALL GOVERN WITH RESPECT TO THE PERFECTION OF THE SECURITY INTEREST IN, OR THE REMEDIES WITH RESPECT TO, SUCH PARTICULAR COLLATERAL.

This Agreement may be executed in one or more counterparts and by different parties hereto in separate counterparts, each of which when so executed and delivered shall be deemed an original, but all such counterparts together shall constitute but one and the same instrument; signature pages may be detached from multiple separate counterparts and attached to a single counterpart so that all signature pages are physically attached to the same document. Delivery of an executed signature page to this Agreement by facsimile transmission or other electronic communication shall be as effective as delivery of a manually signed counterpart of this Agreement.

IN WITNESS WHEREOF, each Grantor has caused this Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

ZIH CORP.

By:  _____
Name: Terri Smith
Title: President

Accepted and Agreed:

JPMORGAN CHASE BANK, N.A.,
as the Collateral Agent

By: 

Name: Douglas Panchal
Title: Executive Director

[Signature Page to Patent Security Agreement]

PATENT
REEL: 044616 FRAME: 0743

**SCHEDULE A
TO
GRANT OF PATENT SECURITY AGREEMENT**

Patents Issued:

| Patent Number | Grant Date | Title | Assignee Name |
|----------------------|-------------------|---|----------------------|
| 9211705 | 12/15/2015 | PRINTER WITH PRINthead ASSEMBLY, CLUTCH ASSEMBLY, AND PRINTER RIBBON TRANSPORT ASSEMBLY | ZIH Corp. |
| 9218175 | 12/22/2015 | CROSS-PLATFORM APPLICATION FRAMEWORK | ZIH Corp. |
| 9329816 | 5/3/2016 | METHOD AND APPARATUS FOR MANAGING REMOTE DEVICES AND ACCESSING REMOTE DEVICE INFORMATION | ZIH Corp. |
| 9370939 | 6/21/2016 | METHOD AND APPARATUS FOR PRINTER CONTROL | ZIH Corp. |
| 9384683 | 7/5/2016 | DIRECT THERMAL MEDIA AND REGISTRATION SENSOR SYSTEM AND METHOD FOR USE IN A COLOR THERMAL PRINTER | ZIH Corp. |
| 9400624 | 7/26/2016 | PAPER PROFILE AND READING SYSTEMS | ZIH Corp. |
| 9454885 | 9/27/2016 | ACTIVE VIRTUAL FENCE USING MESH NETWORKED RF TAGS | ZIH Corp. |
| 9475319 | 10/25/2016 | PRINTER MOBILITY AND SCALABILITY | ZIH Corp. |
| 9487022 | 11/8/2016 | DURABLE MOBILE PRINTER | ZIH Corp. |
| 9493017 | 11/15/2016 | MODULAR PRINT DRIVE ASSEMBLY AND PLATEN ASSEMBLY | ZIH Corp. |
| 9503592 | 11/22/2016 | RETRIEVING DATA ASSOCIATED WITH A PRINTER USING NEAR FIELD COMMUNICATION | ZIH Corp. |
| 9513856 | 12/6/2016 | BEAM SHAPING NEAR FIELD COMMUNICATION DEVICE | ZIH Corp. |
| 9517417 | 12/13/2016 | METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR PERFORMANCE ANALYTICS DETERMINING PARTICIPANT STATISTICAL DATA AND GAME STATUS DATA | ZIH Corp. |
| 9519046 | 12/13/2016 | SYSTEM AND METHOD FOR DETERMINING SIGNAL SOURCE LOCATION IN WIRELESS LOCAL AREA NETWORK | ZIH Corp. |
| 9520630 | 12/13/2016 | ISOLATION DEVICES THAT PASS COUPLER OUTPUT SIGNALS | ZIH Corp. |
| 9699278 | 7/4/2017 | MODULAR LOCATION TAG FOR A REAL TIME LOCATION SYSTEM NETWORK | ZIH Corp. |
| 9550371 | 1/24/2017 | PORTABLE PRINTER WITH SUPPORT FOR RECEIVING RIBBON CARTRIDGE | ZIH Corp. |
| 9550380 | 1/24/2017 | MEDIA PROCESSING DEVICE WITH ENHANCED MEDIA AND RIBBON LOADING AND UNLOADING FEATURES | ZIH Corp. |

| Patent Number | Grant Date | Title | Assignee Name |
|---------------|------------|---|---------------|
| 9561646 | 2/7/2017 | HIGH SPEED ADAPTIVE THERMAL PRINTHEAD INTERFACE | ZIH Corp. |
| 9600463 | 3/21/2017 | XML PRINTER SYSTEM | ZIH Corp. |
| 9604475 | 3/28/2017 | MEDIA PROCESSING DEVICE WITH ENHANCED MEDIA AND RIBBON LOADING AND UNLOADING FEATURES | ZIH Corp. |
| 9623690 | 4/18/2017 | CRADLE APPARATUS AND PRINTING DEVICE INTERFACE | ZIH Corp. |
| 9626616 | 4/18/2017 | LOW-PROFILE REAL-TIME LOCATION SYSTEM TAG | ZIH Corp. |
| 9632734 | 4/25/2017 | SPINDLE SUPPORTED NEAR FIELD COMMUNICATION DEVICE | ZIH Corp. |
| 9661455 | 5/23/2017 | METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR REAL TIME LOCATION SYSTEM REFERENCING IN PHYSICALLY AND RADIO FREQUENCY CHALLENGED ENVIRONMENTS | ZIH Corp. |
| 9662899 | 5/30/2017 | MEDIA PROCESSING DEVICE WITH ENHANCED MEDIA AND RIBBON LOADING AND UNLOADING FEATURES | ZIH Corp. |
| 9662919 | 5/30/2017 | ENHANCED RIBBON LOADING AND UNLOADING FEATURES | ZIH Corp. |
| 9665841 | 5/30/2017 | CROSS-PLATFORM APPLICATION FRAMEWORK | ZIH Corp. |
| 8601449 | 12/3/2013 | CROSS-PLATFORM APPLICATION FRAMEWORK | ZIH Corp. |
| 9667287 | 5/30/2017 | MULTIPLE ANTENNA INTERFERENCE REJECTION IN ULTRA-WIDEBAND REAL TIME LOCATING SYSTEMS | ZIH Corp. |
| 9668164 | 5/30/2017 | RECEIVER PROCESSOR FOR BANDWIDTH MANAGEMENT OF A MULTIPLE RECEIVER REAL-TIME LOCATION SYSTEM (RTL5) | ZIH Corp. |
| 9672449 | 6/6/2017 | APPARATUS, SYSTEM, AND METHOD FOR CALIBRATION OF A MEDIA PROCESSING DEVICE | ZIH Corp. |
| D771051 | 11/8/2016 | PRINTER CRADLE | ZIH Corp. |
| D774129 | 12/13/2016 | MEDIA CARTRIDGE | ZIH Corp. |
| D785561 | 5/2/2017 | BATTERY | ZIH Corp. |

Patents Pending:

| Application Date | Application Number | Title | Assignee Name |
|------------------|--------------------|---|---------------|
| 12/5/2014 | 14/561868 | STRUCTURES FOR REGISTRATION ERROR COMPENSATION | ZIH Corp. |
| 12/1/2014 | 14/556753 | METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR PERFORMANCE ANALYTICS DETERMINING PLAY MODELS AND OUTPUTTING EVENTS BASED ON REAL-TIME DATA FOR PROXIMITY AND MOVEMENT OF OBJECTS | ZIH Corp. |
| 10/24/2014 | 14/523449 | METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR COLLECTING AND DISPLAYING SPORTING EVENT DATA BASED ON REAL TIME DATA FOR PROXIMITY AND MOVEMENT OF OBJECTS | ZIH Corp. |
| 2/25/2015 | 14/631052 | ENHANCED PRINTER FUNCTIONALITY WITH DYNAMIC IDENTIFIER CODE | ZIH Corp. |
| 2/24/2015 | 14/630499 | MOBILE PRINTER NETWORKING AND INTERFACING | ZIH Corp. |
| 12/1/2014 | 14/556762 | METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR ENHANCEMENT OF FAN EXPERIENCE BASED ON LOCATION DATA | ZIH Corp. |
| 3/9/2015 | 14/642592 | RFID SYSTEM AND ASSOCIATED ANTENNA-COUPLER | ZIH Corp. |
| 4/8/2015 | 14/681958 | DUAL TRANSPONDER RADIO FREQUENCY IDENTIFICATION | ZIH Corp. |
| 7/15/2015 | 14/800173 | ANTIMICROBIAL COATING FOR IDENTIFICATION DEVICES | ZIH Corp. |
| 5/29/2015 | 14/725350 | METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR PERFORMANCE ANALYTICS DETERMINING PLAY MODELS AND OUTPUTTING EVENTS BASED ON REAL-TIME DATA FOR PROXIMITY AND MOVEMENT OF OBJECTS | ZIH Corp. |
| 5/29/2015 | 14/725351 | METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR PERFORMANCE ANALYTICS DETERMINING PLAY MODELS AND OUTPUTTING EVENTS BASED ON REAL-TIME DATA FOR PROXIMITY AND MOVEMENT OF OBJECTS | ZIH Corp. |
| 5/29/2015 | 14/725354 | METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR PERFORMANCE ANALYTICS DETERMINING PLAY MODELS AND OUTPUTTING EVENTS BASED ON REAL-TIME DATA FOR PROXIMITY AND MOVEMENT OF OBJECTS | ZIH Corp. |
| 6/5/2015 | 14/732623 | METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR EMPLOYING A SPATIAL ASSOCIATION MODEL IN A REAL TIME LOCATION SYSTEM | ZIH Corp. |
| 6/4/2015 | 14/731210 | SYSTEMS, APPARATUS AND METHODS FOR VARIABLE RATE ULTRA-WIDEBAND COMMUNICATIONS | ZIH Corp. |
| 6/3/2015 | 14/729669 | RECEIVER PROCESSOR FOR ADAPTIVE WINDOWING AND HIGH-RESOLUTION TOA DETERMINATION IN A MULTIPLE RECEIVER TARGET LOCATION SYSTEM | ZIH Corp. |

| Application Date | Application Number | Title | Assignee Name |
|------------------|--------------------|---|--|
| 6/5/2015 | 14/732369 | METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR ENHANCEMENT OF EVENT VISUALIZATIONS BASED ON LOCATION DATA | The provisional application from which this patent claims priority was assigned to ZIH Corp. |
| 6/5/2015 | 14/732141 | METHOD, APPARATUS AND COMPUTER PROGRAM PRODUCT IMPROVING REAL TIME LOCATION SYSTEMS WITH MULTIPLE LOCATION TECHNOLOGIES | ZIH Corp. |
| 11/6/2015 | 14934919 | PRINTER WITH PRINthead ASSEMBLY, CLUTCH ASSEMBLY, AND PRINTER RIBBON TRANSPORT ASSEMBLY | ZIH Corp. |
| 9/3/2015 | 14/844584 | GLOBAL PRINTING SYSTEM AND METHOD FOR RENDERING ENCODING SCHEME INDEPENDENT LABELS HAVING SERIALIZATION DATA | ZIH Corp. |
| 9/22/2015 | 14/861455 | METHOD AND APPARATUS FOR PRINthead CONTROL | ZIH Corp. |
| 9/23/2015 | 14/862683 | TRI-STATE DETECTOR FOR DETECTING TYPES OF LIGHT | ZIH Corp. |
| 6/3/2015 | 14/729761 | METHOD FOR ITERATIVE TARGET LOCATION IN A MULTIPLE RECEIVER TARGET LOCATION SYSTEM | The provisional application from which this patent claims priority was assigned to ZIH Corp. |
| 10/9/2015 | 14/880026 | ETHERNET AND USB POWERED PRINTERS AND METHODS FOR SUPPLYING ETHERNET AND USB POWER TO A PRINTER | ZIH Corp. |
| 4/10/2015 | 14/683973 | METHOD AND APPARATUS FOR MANAGING REMOTE DEVICES AND ACCESSING REMOTE DEVICE INFORMATION | ZIH Corp. |
| 2/5/2016 | 15/017340 | METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR PROCESSING RECEIVED SIGNALS FOR LOCATING | ZIH Corp. |
| 2/16/2016 | 15/044289 | THERMAL PRINT HEAD USAGE MONITOR AND METHOD FOR USING THE MONITOR | ZIH Corp. |
| 2/25/2016 | 15/053874 | ARRAY OF VERY LIGHT READERS FOR ACTIVE RFID AND LOCATION APPLICATIONS | ZIH Corp. |
| 12/19/2014 | 14/577201 | METHOD FOR ENABLING COMMUNICATION BETWEEN A USER DEVICE BROWSER AND A LOCAL DEVICE | ZIH Corp. |
| 3/29/2016 | 15/083390 | METHOD AND APPARATUS FOR MANAGING REMOTE DEVICES AND ACCESSING REMOTE DEVICE INFORMATION | ZIH Corp. |

| Application Date | Application Number | Title | Assignee Name |
|------------------|--------------------|---|--|
| 4/19/2016 | 15/132736 | MEDIA PROCESSING DEVICE AND ASSOCIATED SYSTEM | ZIH Corp. |
| 4/6/2016 | 15/091769 | METHODS, APPARATUSES, AND COMPUTER PROGRAM PRODUCTS FOR IMPLEMENTING CLOUD CONNECTED PRINTERS AND AN ADAPTIVE PRINTER-BASED APPLICATION FRAMEWORK | ZIH Corp. |
| 5/5/2016 | 15/147149 | EXTENSIBLE OBJECT LOCATION SYSTEM AND METHOD USING MULTIPLE REFERENCES | ZIH Corp. |
| 3/11/2016 | 15/068533 | METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR DETERMINING AN OBJECT POSITION BASED ON RANGE DATA AND DETERMINED LOCATION DATA | ZIH Corp. |
| 6/1/2016 | 15/170489 | DIRECT THERMAL MEDIA AND REGISTRATION SENSOR SYSTEM AND METHOD FOR USE IN A COLOR THERMAL PRINTER | ZIH Corp. |
| 3/27/2015 | 14/670961 | CLEAR CARD SENSORS | ZIH Corp. |
| 6/17/2016 | 15/185567 | METHOD AND APPARATUS FOR MODELING TIME RELATIONSHIPS BETWEEN CLOCKS | ZIH Corp. |
| 7/15/2016 | 15/211615 | LABEL PEELING, UNIVERSAL PRINTHEADS AND RELATED METHODS | ZIH Corp. |
| 8/25/2016 | 15/247413 | METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR TAG AND INDIVIDUAL CORRELATION | ZIH Corp. |
| 8/25/2016 | 15/246999 | MEDIA PROCESSING DEVICE WITH ENHANCED MEDIA PROCESSING EFFICIENCY AND CONNECTIVITY FEATURES | The provisional application from which this patent claims priority was assigned to ZIH Corp. |
| 9/22/2016 | 15/273363 | PRINTER MOBILITY AND SCALABILITY | ZIH Corp. |
| 1/19/2017 | 15/281570 | DURABLE MOBILE PRINTER | ZIH Corp. |
| 10/6/2016 | 15/287096 | MODULAR PRINT DRIVE ASSEMBLY AND PLATEN ASSEMBLY | ZIH Corp. |
| 10/31/2016 | 15/339173 | METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR PERFORMANCE ANALYTICS DETERMINING PARTICIPANT STATISTICAL DATA AND GAME STATUS DATA | ZIH Corp. |
| 8/21/2015 | 14/832359 | METHODS AND APPARATUS TO ADAPT LEGACY APPLICATIONS TO TARGET PLATFORMS | ZIH Corp. |
| 11/11/2016 | 15/349606 | SYSTEMS AND METHODS FOR ACTIVITY DETERMINATION BASED ON HUMAN FRAME | ZIH Corp. |
| 11/9/2016 | 15/347564 | PORTABLE PRINTER | ZIH Corp. |
| 10/2/2015 | 14/874120 | MEDIA CUTTING ASSEMBLIES | ZIH Corp. |
| 2/9/2017 | 15/428781 | MEDIA PROCESSING DEVICE WITH ENHANCED MEDIA AND RIBBON LOADING AND UNLOADING FEATURES | ZIH Corp. |

| Application Date | Application Number | Title | Assignee Name |
|------------------|--------------------|--|---------------|
| 1/3/2017 | 15/397504 | SYSTEM, APPARATUS AND METHODS FOR VARIABLE RATE ULTRA-WIDEBAND COMMUNICATIONS | ZIH Corp. |
| 12/30/2016 | 15/396110 | METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR DETERMINING PLAY EVENTS AND OUTPUTTING EVENTS BASED ON REAL-TIME DATA FOR PROXIMITY, MOVEMENT OF OBJECTS, AND AUDIO DATA | ZIH Corp. |
| 3/10/2017 | 15/455680 | CRADLE APPARATUS AND PRINTING DEVICE INTERFACE | ZIH Corp. |
| 3/10/2017 | 15/455643 | LOW-PROFILE REAL-TIME LOCATION SYSTEM TAG | ZIH Corp. |
| 3/17/2017 | 15/462393 | SPINDLE SUPPORTED NEAR FIELD COMMUNICATION DEVICE | ZIH Corp. |
| 3/17/2017 | 15/462474 | ENCODING MODULE, ASSOCIATED ENCODING ELEMENT, CONNECTOR, PRINTER-ENCODER AND ACCESS CONTROL SYSTEM | ZIH Corp. |
| 12/30/2016 | 15/396106 | [Claims the benefit of 13/942244] | ZIH Corp. |
| 4/17/2017 | 15/489335 | [Claims the benefit of 14/316726] | ZIH Corp. |
| 4/20/2017 | 15/492537 | [Claims the benefit of 14/678080] | ZIH Corp. |
| 4/19/2017 | 15/491577 | [Claims the benefit of 15/375376] | ZIH Corp. |
| 4/18/2017 | 15/490271 | [Claims the benefit of 14/932664] | ZIH Corp. |
| 5/16/2017 | 15/596717 | [Claims the benefit of 14/323534] | ZIH Corp. |
| 5/17/2017 | 15/597895 | [Claims the benefit of 14/297361] | ZIH Corp. |
| 11/2/2016 | 29/583093 | [Claims the benefit of 14/512031] | ZIH Corp. |