

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT7696957

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ZICHEN HUANG	12/12/2018
HARSOVEET SINGH	12/18/2018
JONATHAN KELLY	12/18/2018
MAHYAR VAJEDI	12/18/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ZIH CORP.
<b>Street Address:</b>	3 OVERLOOK POINT
<b>City:</b>	LINCOLNSHIRE
<b>State/Country:</b>	ILLINOIS
<b>Postal Code:</b>	60069
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16719541
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(847)955-4514
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	8476346700
<b>Email:</b>	Int.Docketing@zebra.com
<b>Correspondent Name:</b>	ZEBRA TECHNOLOGIES CORPORATION
<b>Address Line 1:</b>	3 OVERLOOK POINT
<b>Address Line 4:</b>	LINCOLNSHIRE, ILLINOIS 60069
<b>ATTORNEY DOCKET NUMBER:</b>	152772US01
<b>NAME OF SUBMITTER:</b>	GEOLEN E. VERNON
<b>SIGNATURE:</b>	/Geolen E. Vernon/
<b>DATE SIGNED:</b>	12/15/2022
<b>Total Attachments: 6</b>	
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**ASSIGNMENT - WORLDWIDE**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold, assigned and transferred, and does hereby sell, assign and transfer, unto **ZIH Corp. ("Assignee")**, a limited liability company of the State of Delaware, having its principal place of business at **3 Overlook Point, Lincolnshire, IL, 60069**, and its successors and assigns, the entire right, title and interest for the United States of America and the Territories and Possessions thereof and all countries foreign to the United States of America in and to inventions relating to

METHOD, SYSTEM AND APPARATUS FOR DYNAMIC LOOP  
CLOSURE IN MAPPING TRAJECTORIES

as set forth in an application for Letters Patent

- executed concurrently herewith,  
 executed on \_\_\_\_\_,  
 Application No. 3028708; filed in Canada on December 28, 2018,  
 Application claims priority from Application No. \_\_\_\_\_, filed \_\_\_\_\_, all applications listed above being hereinafter referred to as the "application(s)",

together with the entire right, title and interest in and to all divisionals, renewals, substitutes, continuations, non-provisionals, continuation-in-parts, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise.

The Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned, without charge to Assignee, but at its expense, will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

Each undersigned inventor hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment, for example, application number and filing date.

This Assignment is deemed to be effective at least as early as the earliest priority date.

Dec. 12, 2018  
Date

[Signature]  
Zichen Huang

Witness:  
Zhengqi Pei  
(Typed Name)

Witness:  
Wa Ming Michael Kuok  
(Typed Name)

[Signature]  
(Signature)

[Signature]  
(Signature)

Date: 2018 12 12

Date: 2018.12.12

- OR -

State of \_\_\_\_\_ )

County of \_\_\_\_\_ )

I, \_\_\_\_\_, a Notary Public for said County and State, do hereby certify that **Zichen Huang** personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the \_\_\_\_\_ day of \_\_\_\_\_, 2018.

(Official Seal)

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

2ed 8 - Dec - 18  
Date

*[Signature]*  
**Harsoveet Singh**

Witness:  
TZE FUNG CHRISTOPHER CHAN  
(Typed Name)

Witness:  
Mahyar Vajedi  
(Typed Name)

*[Signature]*  
(Signature)

2018 Dec - Vajedi  
(Signature)

Date: 2018 - DEC - 18

Date: 2018 - Dec - 18

- OR -

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ )

I, \_\_\_\_\_, a Notary Public for said County and State, do hereby certify that **Harsoveet Singh** personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the \_\_\_\_\_ day of \_\_\_\_\_, 2018.

(Official Seal)

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

Dec. 18 / 2018  
Date

Jonathan Kelly  
Jonathan Kelly

Witness:

Barbara Kelly  
(Typed Name)

Barbara Kelly  
(Signature)

Witness:

Katheryn Small  
(Typed Name)

[Signature]  
(Signature)

Date: Dec 18, 2018

Date: Dec 18, 2018

- OR -

State of \_\_\_\_\_ )

County of \_\_\_\_\_ )

I, \_\_\_\_\_, a Notary Public for said County and State, do hereby certify that **Jonathan Kelly** personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the \_\_\_\_\_ day of \_\_\_\_\_, 2018.

(Official Seal)

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_


2018 - Dec - 18  
Date

Vajedi  
**Mahyar Vajedi**

Witness:  
Harsaveet Singh  
(Typed Name)

  
(Signature)

Witness:  
TZE FUNG CHRISTOPHER CHAN  
(Typed Name)

  
(Signature)

Date: 2018 - Dec - 18

Date: 2018 - DEC - 18

- OR -

State of \_\_\_\_\_ )  
  )  
County of \_\_\_\_\_ )

I, \_\_\_\_\_, a Notary Public for said County and State, do hereby certify that **Mahyar Vajedi** personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the \_\_\_\_\_ day of \_\_\_\_\_, 2018.

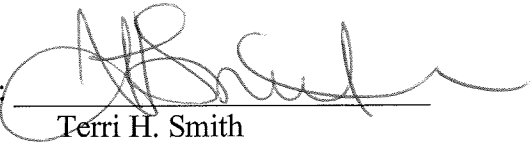
(Official Seal)

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

Acknowledged and Agreed:

ZIH CORP.

By:   
\_\_\_\_\_  
Terri H. Smith  
President