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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/107,058	12/16/2013	CRAIG THOMAS YEHLE	56169/4600

CONFIRMATION NO. 5994

POA ACCEPTANCE LETTER

163466
Lee & Hayes , P.C.
601 West Riverside Ave., Suite 1400
Spokane, WA 99201

OC000000111681107

Date Mailed: 10/07/2019

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/03/2019.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/sleutchit/

Hunter's Manufacturing Company, Inc.
R1002

UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/107,058	12/16/2013	CRAIG THOMAS YEHLE	56169/4600

CONFIRMATION NO. 5994

POWER OF ATTORNEY NOTICE

84405
Karl G Schwappach
17 south Long Lake Trail
North Oaks, MN 55127

OC000000111681087

Date Mailed: 10/07/2019

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/03/2019.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/sleutchit/

PTO/SB/123 (11-08)
Approved for use through 11/30/2011. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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CHANGE OF CORRESPONDENCE ADDRESS
Patent

Address to:
Mail Stop Post Issue
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Patent Number	9,354,015
Issue Date	5/31/2016
Application Number	14/107,058
Filing Date	12/16/2013
First Named Inventor	Craig Thomas Yehle
Attorney Docket Number	R226 - 0014US

Please change the Correspondence Address for the above-identified patent to:

☑ The address associated with Customer Number: 163466

OR

☐ **Firm *or* Individual Name**

Address

City | **State** | **ZIP**

Country

Telephone | **Email**

This form cannot be used to change the data associated with a Customer Number. To change the data associated with an existing Customer Number use "Request for Customer Number Data Change" (PTO/SB/124).

This form will not affect any "fee address" provided for the above-identified patent. To change a "fee address" use the "Fee Address Indication Form" (PTO/SB/47).

I am the:

☐ Patentee.

☐ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

☑ Attorney or agent of record. Registration Number 54038.

Signature /Dominic P. Ciminello/

Typed or Printed Name Dominic P. Ciminello

Date October 2, 2019 | Telephone 585-598-5408

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop Post Issue, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Acknowledgement Receipt

EFS ID:	37360113
Application Number:	14107058
International Application Number:	
Confirmation Number:	5994
Title of Invention:	STRING GUIDE SYSTEM FOR A BOW
First Named Inventor/Applicant Name:	CRAIG THOMAS YEHLE
Customer Number:	84405
Filer:	Dominic Peter Ciminello/Janette Abernathy
Filer Authorized By:	Dominic Peter Ciminello
Attorney Docket Number:	56169/4600
Receipt Date:	03-OCT-2019
Filing Date:	16-DEC-2013
Time Stamp:	16:02:10
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	25K0323.PDF	156672 0cf66556a1727edbbca6a848ef17b7211abc578d	no	1

Warnings:

Information:					
2	Assignee showing of ownership per 37 CFR 3.73	26C9693.PDF	67589 a702141aed8252c244755058f62694ea14f7d805	no	2
Warnings:					
Information:					
3	Change of Address	26C9692.PDF	50004 e0fab599fe1f99d037830c0095814e4983f89480	no	1
Warnings:					
Information:					
4	Change of Address	26C9694.PDF	52641 b7730957a24448b0b26d5a94ccbc9065e45b7096	no	1
Warnings:					
Information:					
		Total Files Size (in bytes):	326906		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/AIA/80 (07-12)
Approved for use through 11/30/2014. OMB 0651-0035
U.S. Patent and Trademark Office; U.S DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

☑ Practitioners associated with Customer Number: 163466

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

☑ The address associated with Customer Number: 163466

OR

☐	Firm or Individual Name			
	Address			
	City		State	Zip
	Country			
	Telephone		Email	

Assignee Name and Address: Ravin Crossbows, LLC
3535 Tower Ave.
Superior, WI 54880

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be Filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of The practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	
Name	Robert Beckwith	Telephone	
Title	CEO		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Atty Docket No: **R226 - 0014US**

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Ravin Crossbows, LLC

Application No./Patent No.: 14/107,058 Filed/Issue Date: 12/16/2013

Titled: STRING GUIDE SYSTEM FOR A BOW

Ravin Crossbows, LLC, a corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☑ The assignee of the entire right, title, and interest.

2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):

   ☐ The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

   ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

A. ☑ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 031787, Frame 0435, or for which a copy thereof is attached.

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

   The document was recorded in the United States Patent and Trademark Office at

   Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

   The document was recorded in the United States Patent and Trademark Office at

   Reel _____, Frame _____, or for which a copy thereof is attached.

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☑ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Dominic P. Ciminello/	October 2, 2019
Signature	Date
Dominic P. Ciminello	54038
Printed or Typed Name 585-598-5408	Title or Registration Number

PTO/SB/47 (03-09)
Approved for use through 03/31/2012. OMB 0651-0016
U.S. Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE
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"FEE ADDRESS" INDICATION FORM

Address to:
Mail Stop M Correspondence
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

- OR -

Fax to:
571-273-6500

INSTRUCTIONS: The issue fee must have been paid for application(s) listed on this form. In addition, only an address represented by a Customer Number can be established as the fee address for maintenance fee purposes (hereafter, fee address). A fee address should be established when correspondence related to maintenance fees should be mailed to a different address than the correspondence address for the application. **When to check the first box below**: If you have a Customer Number to represent the fee address. **When to check the second box below**: If you have no Customer Number representing the desired fee address, in which case a completed Request for Customer Number (PTO/SB/125) must be attached to this form. For more information on Customer Numbers, see the Manual of Patent Examining Procedure (MPEP) § 403.

For the following listed application(s), please recognize as the "Fee Address" under the provisions of 37 CFR 1.363 the address associated with:

☑ Customer Number: 163466

OR

☐ The attached Request for Customer Number (PTO/SB/125) form.

PATENT NUMBER (if known)	APPLICATION NUMBER
9,354,015	14/107,058

Completed by (check one):

☐ Applicant/Inventor — /Dominic P. Ciminello/ (Signature)

☑ Attorney or Agent of record 54038 (Reg. No.) — Dominic P. Ciminello (Typed or printed name)

☐ Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96) — 585-598-5408 (Requester's telephone number)

☐ Assignee recorded at Reel _____ Frame _____ — October 2, 2019 (Date)

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more that one signature is required, see below*.

☐ *** Total of ___ forms are submitted.**

This collection of information is required by 37 CFR 1.363. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 5 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.
SEND TO: Mail Stop M Correspondence, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5457828

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
NATIONAL BANK OF COMMERCE	04/04/2019

RECEIVING PARTY DATA

Name:	RAVIN CROSSBOWS, LLC
Street Address:	69 NORTH 28TH STREET, SUITE 500
City:	SUPERIOR
State/Country:	WISCONSIN
Postal Code:	54880

PROPERTY NUMBERS Total: 9

Property Type	Number
Patent Number:	7204242
Patent Number:	8651095
Patent Number:	9255753
Patent Number:	9383159
Patent Number:	9354015
Patent Number:	8899217
Patent Number:	9494379
Patent Number:	9494380
Patent Number:	9557134

CORRESPONDENCE DATA

Fax Number: (218)725-6800

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.

Phone: 218-725-6812
Email: ltaylor@fryberger.com
Correspondent Name: PAUL A. LORAAS
Address Line 1: 302 WEST SUPERIOR STREET
Address Line 2: SUITE 700
Address Line 4: DULUTH, MINNESOTA 55802

ATTORNEY DOCKET NUMBER:	13976-133
NAME OF SUBMITTER:	PAUL A. LORAAS

SIGNATURE:	/pal/
DATE SIGNED:	04/04/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 1 source=Release - Ravin#page1.tif	

RELEASE OF SECURITY INTEREST

This certifies that the Commercial Security Agreement executed by Ravin Crossbows, LLC, a Wisconsin limited liability company, whose address is 69 North 28th Street, Suite 500, Superior, Wisconsin 54880, to National Bank of Commerce, whose address is 1127 Tower Avenue, Superior, Wisconsin 54880, dated January 30, 2017, upon U.S. Patent Nos. 7204242, 8651095, 9255753, 9383159, 9354015, 8899217, 9494379, 9494380 and 9557134 (the Collateral), for adequate consideration is released and of no further force or effect. This release shall not be construed to have any affect other than to release the Collateral.

IN WITNESS WHEREOF, the undersigned vice president of National Bank of Commerce, has executed this Release of Security Interest on April 4th, 2019.

NATIONAL BANK OF COMMERCE

By _____
Marty Olson, Vice President

STATE OF MINNESOTA)
) ss
COUNTY OF ST. LOUIS)

The foregoing instrument was acknowledged before me this 4th day of April, 2019, by Marty Olson, the vice president of National Bank of Commerce.

_____
Notary Public

ALISHA MARIE RIEDEL
NOTARY PUBLIC - MINNESOTA
My Comm. Exp. Jan. 31, 2023

M:\DOCS\13976\000133\REL\17I3309.DOCX

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY.DOCKET NO./TITLE	REQUEST ID
14/107,058	12/16/2013	CRAIG THOMAS YEHLE	56169/4600	74918

Acknowledgement of Loss of Entitlement to Entity Status Discount

The entity status change request below filed through Private PAIR on 10/31/2018 has been accepted.

CERTIFICATIONS:

Change of Entity Status:

X Applicant changing to regular undiscounted fee status.

NOTE: Checking this box will be taken to be notification of loss of entitlement to small or micro entity status, as applicable.

This portion must be completed by the signatory or signatories making the entity status change in accordance with 37 CFR 1.4(d)(4).

Signature:	/Karl Schwappach/
Name:	Karl Schwappach
Registration Number:	35786

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4283029

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
RAVIN CROSSBOWS, LLC	01/30/2017

RECEIVING PARTY DATA

Name:	NATIONAL BANK OF COMMERCE
Street Address:	1127 TOWER AVENUE
City:	SUPERIOR
State/Country:	WISCONSIN
Postal Code:	54880

PROPERTY NUMBERS Total: 8

Property Type	Number
Patent Number:	7204242
Patent Number:	9255753
Patent Number:	9354015
Patent Number:	9383159
Patent Number:	9494379
Patent Number:	9494380
Patent Number:	8651095
Patent Number:	8899217

CORRESPONDENCE DATA

Fax Number: (218)725-6800

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.

Phone: 2187220861
Email: ltaylor@fryberger.com
Correspondent Name: PAUL A. LORAAS
Address Line 1: 302 WEST SUPERIOR STREET
Address Line 2: SUITE 700
Address Line 4: DULUTH, MINNESOTA 55802

ATTORNEY DOCKET NUMBER:	13976-133
NAME OF SUBMITTER:	PAUL A. LORAAS
SIGNATURE:	/pal/

DATE SIGNED:	02/21/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 6
source=Ravin Crossbows SecAg#page1.tif
source=Ravin Crossbows SecAg#page2.tif
source=Ravin Crossbows SecAg#page3.tif
source=Ravin Crossbows SecAg#page4.tif
source=Ravin Crossbows SecAg#page5.tif
source=Ravin Crossbows SecAg#page6.tif

Doc Req ID: 616744
Account #: 4100789
Security Agreement
Timestamp: 2/8/2017 9:21 AM

COMMERCIAL SECURITY AGREEMENT

References in the boxes above are for Lender's use only and do not limit the applicability of this document to any particular loan or item.
Any item above containing "*****" has been omitted due to text length limitations.

Grantor: Ravin Crossbows, LLC
69 N 28th St Ste 500
Superior, WI 54880

Lender: National Bank of Commerce
Duluth Branch
1127 Tower Avenue
PO Box 99
Superior, WI 54880

THIS COMMERCIAL SECURITY AGREEMENT dated January 30, 2017, is made and executed between Ravin Crossbows, LLC ("Grantor") and National Bank of Commerce ("Lender").

GRANT OF SECURITY INTEREST. For valuable consideration, Grantor grants to Lender a security interest in the Collateral to secure the Indebtedness and agrees that Lender shall have the rights stated in this Agreement with respect to the Collateral, in addition to all other rights which Lender may have by law.

COLLATERAL DESCRIPTION. The word "Collateral" as used in this Agreement means the following described property, whether now owned or hereafter acquired, whether now existing or hereafter arising, and wherever located, in which Grantor is giving to Lender a security interest for the payment of the Indebtedness and performance of all other obligations under the Note and this Agreement:

All equipment, fixtures, inventory, documents, general intangibles, accounts, deposit accounts (unless a security interest would render a nontaxable account taxable), contract rights, chattel paper, patents, trademarks and copyrights (and the good will associated with and registrations and licenses of any of them), instruments, letter of credit rights and investment property, now owned or hereafter acquired by Debtor (or by Debtor with spouse), and all additions and accessions to, all spare and repair parts, special tools, equipment and replacements for, software used in, all returned or repossessed goods the sale of which gave rise to and all proceeds, supporting obligations, intellectual property, and products of the foregoing, wherever located, including but not limited to debtor's interest in U.S. Registration Nos. 7,204,242, 9,255,753, 9,354,015, 9,383,159, 9,494,379, 9,494,380, 8,651,085, 8,899,217, 7,222,634 and 2,481,600; and U.S. Serial Numbers 62/299,808, 61/820,792, 62/244,932, 15/098,568, 15/098,577, 15/395,705, 15/395,794, 15/395,835 and 62/441,618.

In addition, the word "Collateral" also includes all the following, whether now owned or hereafter acquired, whether now existing or hereafter arising, and wherever located:

(A) All accessions, attachments, accessories, tools, parts, supplies, replacements of and additions to any of the collateral described herein, whether added now or later.

(B) All products and produce of any of the property described in this Collateral section.

(C) All accounts, general intangibles, instruments, rents, monies, payments, and all other rights, arising out of a sale, lease, consignment or other disposition of any of the property described in this Collateral section.

(D) All proceeds (including insurance proceeds) from the sale, destruction, loss, or other disposition of any of the property described in this Collateral section, and sums due from a third party who has damaged or destroyed the Collateral or from that party's insurer, whether due to judgment, settlement or other process.

(E) All records and data relating to any of the property described in this Collateral section, whether in the form of a writing, photograph, microfilm, microfiche, or electronic media, together with all of Grantor's right, title, and interest in and to all computer software required to utilize, create, maintain, and process any such records or data on electronic media.

CROSS-COLLATERALIZATION. In addition to the Note, this Agreement secures all obligations, debts and liabilities, plus interest thereon, of Grantor to Lender, or any one or more of them, as well as all claims by Lender against Grantor or any one or more of them, whether now existing or hereafter arising, whether related or unrelated to the purpose of the Note, whether voluntary or otherwise, whether due or not due, direct or indirect, determined or undetermined, absolute or contingent, liquidated or unliquidated, whether Grantor may be liable individually or jointly with others, whether obligated as guarantor, surety, accommodation party or otherwise, and whether recovery upon such amounts may be or hereafter may become barred by any statute of limitations, and whether the obligation to repay such amounts may be or hereafter may become otherwise unenforceable.

RIGHT OF SETOFF. To the extent permitted by applicable law, Lender reserves a right of setoff in all Grantor's accounts with Lender (whether checking, savings, or some other account). This includes all accounts Grantor holds jointly with someone else and all accounts Grantor may open in the future. However, this does not include any IRA or Keogh accounts, or any trust accounts for which setoff would be prohibited by law. Grantor authorizes Lender, to the extent permitted by applicable law, to charge or setoff all sums owing on the Indebtedness against any and all such accounts.

GRANTOR'S REPRESENTATIONS AND WARRANTIES WITH RESPECT TO THE COLLATERAL. With respect to the Collateral, Grantor represents and promises to Lender that:

Perfection of Security Interest. Grantor agrees to take whatever actions are requested by Lender to perfect and continue Lender's security interest in the Collateral. Upon request of Lender, Grantor will deliver to Lender any and all of the documents evidencing or constituting the Collateral, and Grantor will note Lender's interest upon any and all chattel paper and instruments if not delivered to Lender for possession by Lender. **This is a continuing Security Agreement and will continue in effect even though all or any part of the Indebtedness is paid in full and even though for a period of time Grantor may not be indebted to Lender.**

Notices to Lender. Grantor will promptly notify Lender in writing at Lender's address shown above (or such other addresses as Lender may designate from time to time) prior to any (1) change in Grantor's name; (2) change in Grantor's assumed business name(s); (3) change in the management or in the members or managers of the limited liability company Grantor; (4) change in the authorized signer(s); (5) change in Grantor's principal office address; (6) change in Grantor's state of organization; (7) conversion of Grantor to a new or different

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type of business entity; or (8) change in any other aspect of Grantor that directly or indirectly relates to any agreements between Grantor and Lender. No change in Grantor's name or state of organization will take effect until after Lender has received notice.

No Violation. The execution and delivery of this Agreement will not violate any law or agreement governing Grantor or to which Grantor is a party, and its membership agreement does not prohibit any term or condition of this Agreement.

Enforceability of Collateral. To the extent the Collateral consists of accounts, chattel paper, or general intangibles, as defined by the Uniform Commercial Code, the Collateral is enforceable in accordance with its terms, is genuine, and fully complies with all applicable laws and regulations concerning form, content and manner of preparation and execution, and all persons appearing to be obligated on the Collateral have authority and capacity to contract and are in fact obligated as they appear to be on the Collateral. At the time any account becomes subject to a security interest in favor of Lender, the account shall be a good and valid account representing an undisputed, bona fide indebtedness incurred by the account debtor, for merchandise held subject to delivery instructions or previously shipped or delivered pursuant to a contract of sale, or for services previously performed by Grantor with or for the account debtor. So long as this Agreement remains in effect, Grantor shall not, without Lender's prior written consent, compromise, settle, adjust, or extend payment under or with regard to any such Accounts. There shall be no setoffs or counterclaims against any of the Collateral, and no agreement shall have been made under which any deductions or discounts may be claimed concerning the Collateral except those disclosed to Lender in writing.

Location of the Collateral. Except in the ordinary course of Grantor's business, Grantor agrees to keep the Collateral (or to the extent the Collateral consists of intangible property such as accounts or general intangibles, the records concerning the Collateral) at Grantor's address shown above or at such other locations as are acceptable to Lender. Upon Lender's request, Grantor will deliver to Lender in form satisfactory to Lender a schedule of real properties and Collateral locations relating to Grantor's operations, including without limitation the following: (1) all real property Grantor owns or is purchasing; (2) all real property Grantor is renting or leasing; (3) all storage facilities Grantor owns, rents, leases, or uses; and (4) all other properties where Collateral is or may be located.

Removal of the Collateral. Except in the ordinary course of Grantor's business, including the sales of inventory, Grantor shall not remove the Collateral from its existing location without Lender's prior written consent. To the extent that the Collateral consists of vehicles, or other titled property, Grantor shall not take or permit any action which would require application for certificates of title for the vehicles outside the State of Wisconsin, without Lender's prior written consent. Grantor shall, whenever requested, advise Lender of the exact location of the Collateral.

Transactions Involving Collateral. Except for inventory sold or accounts collected in the ordinary course of Grantor's business, or as otherwise provided for in this Agreement, Grantor shall not sell, offer to sell, or otherwise transfer or dispose of the Collateral. While Grantor is not in default under this Agreement, Grantor may sell inventory, but only in the ordinary course of its business and only to buyers who qualify as a buyer in the ordinary course of business. A sale in the ordinary course of Grantor's business does not include a transfer in partial or total satisfaction of a debt or any bulk sale. Grantor shall not pledge, mortgage, encumber or otherwise permit the Collateral to be subject to any lien, security interest, encumbrance, or charge, other than the security interest provided for in this Agreement, without the prior written consent of Lender. This includes security interests even if junior in right to the security interests granted under this Agreement. Unless waived by Lender, all proceeds from any disposition of the Collateral (for whatever reason) shall be held in trust for Lender and shall not be commingled with any other funds; provided however, this requirement shall not constitute consent by Lender to any sale or other disposition. Upon receipt, Grantor shall immediately deliver any such proceeds to Lender.

Title. Grantor represents and warrants to Lender that Grantor holds good and marketable title to the Collateral, free and clear of all liens and encumbrances except for the lien of this Agreement. No financing statement covering any of the Collateral is on file in any public office other than those which reflect the security interest created by this Agreement or to which Lender has specifically consented. Grantor shall defend Lender's rights in the Collateral against the claims and demands of all other persons.

Repairs and Maintenance. Grantor agrees to keep and maintain, and to cause others to keep and maintain, the Collateral in good order, repair and condition at all times while this Agreement remains in effect. Grantor further agrees to pay when due all claims for work done on, or services rendered or material furnished in connection with the Collateral so that no lien or encumbrance may ever attach to or be filed against the Collateral.

Inspection of Collateral. Lender and Lender's designated representatives and agents shall have the right at all reasonable times to examine and inspect the Collateral wherever located.

Taxes, Assessments and Liens. Grantor will pay when due all taxes, assessments and liens upon the Collateral, its use or operation, upon this Agreement, upon any promissory note or notes evidencing the Indebtedness, or upon any of the other Related Documents. Grantor may withhold any such payment or may elect to contest any lien if Grantor is in good faith conducting an appropriate proceeding to contest the obligation to pay and so long as Lender's interest in the Collateral is not jeopardized in Lender's sole opinion. If the Collateral is subjected to a lien which is not discharged within fifteen (15) days, Grantor shall deposit with Lender cash, a sufficient corporate surety bond or other security satisfactory to Lender in an amount adequate to provide for the discharge of the lien plus any interest, costs, attorneys' fees or other charges that could accrue as a result of foreclosure or sale of the Collateral. In any contest Grantor shall defend itself and Lender and shall satisfy any final adverse judgment before enforcement against the Collateral. Grantor shall name Lender as an additional obligee under any surety bond furnished in the contest proceedings. Grantor further agrees to furnish Lender with evidence that such taxes, assessments, and governmental and other charges have been paid in full and in a timely manner. Grantor may withhold any such payment or may elect to contest any lien if Grantor is in good faith conducting an appropriate proceeding to contest the obligation to pay and so long as Lender's interest in the Collateral is not jeopardized.

Compliance with Governmental Requirements. Grantor shall comply promptly with all laws, ordinances, rules and regulations of all governmental authorities, now or hereafter in effect, applicable to the ownership, production, disposition, or use of the Collateral, including all laws or regulations relating to the undue erosion of highly-erodible land or relating to the conversion of wetlands for the production of an agricultural product or commodity. Grantor may contest in good faith any such law, ordinance or regulation and withhold compliance during any proceeding, including appropriate appeals, so long as Lender's interest in the Collateral, in Lender's opinion, is not jeopardized.

Hazardous Substances. Grantor represents and warrants that the Collateral never has been, and never will be so long as this Agreement remains a lien on the Collateral, used in violation of any Environmental Laws or for the generation, manufacture, storage, transportation, treatment, disposal, release or threatened release of any Hazardous Substance. The representations and warranties contained herein are based on Grantor's due diligence in investigating the Collateral for Hazardous Substances. Grantor hereby (1) releases and waives any future claims against Lender for indemnity or contribution in the event Grantor becomes liable for cleanup or other costs under any Environmental Laws, and (2) agrees to indemnify, defend, and hold harmless Lender against any and all claims and losses resulting from a breach of this provision of this Agreement. This obligation to indemnify and defend shall survive the payment of the Indebtedness and the satisfaction of this Agreement.

Maintenance of Casualty Insurance. Grantor shall procure and maintain all risks insurance, including without limitation fire, theft and liability coverage together with such other insurance as Lender may require with respect to the Collateral, in form, amounts, coverages and

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basis reasonably acceptable to Lender and issued by a company or companies reasonably acceptable to Lender. Grantor, upon request of Lender, will deliver to Lender from time to time the policies or certificates of insurance in form satisfactory to Lender, including stipulations that coverages will not be cancelled or diminished without at least thirty (30) days' prior written notice to Lender and not including any disclaimer of the insurer's liability for failure to give such a notice. Each insurance policy also shall include an endorsement providing that coverage in favor of Lender will not be impaired in any way by any act, omission or default of Grantor or any other person. In connection with all policies covering assets in which Lender holds or is offered a security interest, Grantor will provide Lender with such loss payable or other endorsements as Lender may require. If Grantor at any time fails to obtain or maintain any insurance as required under this Agreement, Lender may (but shall not be obligated to) obtain such insurance as Lender deems appropriate, including if Lender so chooses "single interest insurance," which will cover only Lender's interest in the Collateral.

Application of Insurance Proceeds. Grantor shall promptly notify Lender of any loss or damage to the Collateral, whether or not such casualty or loss is covered by insurance. Lender may make proof of loss if Grantor fails to do so within fifteen (15) days of the casualty. All proceeds of any insurance on the Collateral, including accrued proceeds thereon, shall be held by Lender as part of the Collateral. If Lender consents to repair or replacement of the damaged or destroyed Collateral, Lender shall, upon satisfactory proof of expenditure, pay or reimburse Grantor from the proceeds for the reasonable cost of repair or restoration. If Lender does not consent to repair or replacement of the Collateral, Lender shall retain a sufficient amount of the proceeds to pay all of the Indebtedness, and shall pay the balance to Grantor. Any proceeds which have not been disbursed within six (6) months after their receipt and which Grantor has not committed to the repair or restoration of the Collateral shall be used to prepay the Indebtedness.

Insurance Reserves. Lender may require Grantor to maintain with Lender reserves for payment of insurance premiums, which reserves shall be created by monthly payments from Grantor of a sum estimated by Lender to be sufficient to produce, at least fifteen (15) days before the premium due date, amounts at least equal to the insurance premiums to be paid. If fifteen (15) days before payment is due, the reserve funds are insufficient, Grantor shall upon demand pay any deficiency to Lender. The reserve funds shall be held by Lender as a general deposit and shall constitute a non-interest-bearing account which Lender may satisfy by payment of the insurance premiums required to be paid by Grantor as they become due. Lender does not hold the reserve funds in trust for Grantor, and Lender is not the agent of Grantor for payment of the insurance premiums required to be paid by Grantor. The responsibility for the payment of premiums shall remain Grantor's sole responsibility.

Insurance Reports. Grantor, upon request of Lender, shall furnish to Lender reports on each existing policy of insurance showing such information as Lender may reasonably request including the following: (1) the name of the insurer; (2) the risks insured; (3) the amount of the policy; (4) the property insured; (5) the then current value on the basis of which insurance has been obtained and the manner of determining that value; and (6) the expiration date of the policy. In addition, Grantor shall upon request by Lender (however not more often than annually) have an independent appraiser satisfactory to Lender determine, as applicable, the cash value or replacement cost of the Collateral.

Financing Statements. Grantor authorizes Lender to file a UCC financing statement, or alternatively, a copy of this Agreement to perfect Lender's security interest. At Lender's request, Grantor additionally agrees to sign all other documents that are necessary to perfect, protect, and continue Lender's security interest in the Property. Grantor will pay all filing fees, title transfer fees, and other fees and costs involved unless prohibited by law or unless Lender is required by law to pay such fees and costs. Grantor irrevocably appoints Lender to execute documents necessary to transfer title if there is a default. Lender may file a copy of this Agreement as a financing statement.

GRANTOR'S RIGHT TO POSSESSION AND TO COLLECT ACCOUNTS. Until default and except as otherwise provided below with respect to accounts, Grantor may have possession of the tangible personal property and beneficial use of all the Collateral and may use it in any lawful manner not inconsistent with this Agreement or the Related Documents, provided that Grantor's right to possession and beneficial use shall not apply to any Collateral where possession of the Collateral by Lender is required by law to perfect Lender's security interest in such Collateral. Until otherwise notified by Lender, Grantor may collect any of the Collateral consisting of accounts. At any time and even though no Event of Default exists, Lender may exercise its rights to collect the accounts and to notify account debtors to make payments directly to Lender for application to the Indebtedness. If Lender at any time has possession of any Collateral, whether before or after an Event of Default, Lender shall be deemed to have exercised reasonable care in the custody and preservation of the Collateral if Lender takes such action for that purpose as Grantor shall request or as Lender, in Lender's sole discretion, shall deem appropriate under the circumstances, but failure to honor any request by Grantor shall not of itself be deemed to be a failure to exercise reasonable care. Lender shall not be required to take any steps necessary to preserve any rights in the Collateral against prior parties, nor to protect, preserve or maintain any security interest given to secure the Indebtedness.

LENDER'S EXPENDITURES. If any action or proceeding is commenced that would materially affect Lender's interest in the Collateral or if Grantor fails to comply with any provision of this Agreement or any Related Documents, including but not limited to Grantor's failure to discharge or pay when due any amounts Grantor is required to discharge or pay under this Agreement or any Related Documents, Lender on Grantor's behalf may (but shall not be obligated to) take any action that Lender deems appropriate, including but not limited to discharging or paying all taxes, liens, security interests, encumbrances and other claims, at any time levied or placed on the Collateral and paying all costs for insuring, maintaining and preserving the Collateral. All such expenditures incurred or paid by Lender for such purposes will then bear interest at the rate charged under the Note from the date incurred or paid by Lender to the date of repayment by Grantor. All such expenses will become a part of the Indebtedness and, at Lender's option, will (A) be payable on demand; (B) be added to the balance of the Note and be apportioned among and be payable with any installment payments to become due during either (1) the term of any applicable insurance policy; or (2) the remaining term of the Note; or (C) be treated as a balloon payment which will be due and payable at the Note's maturity. The Agreement also will secure payment of these amounts. Such right shall be in addition to all other rights and remedies to which Lender may be entitled upon Default.

DEFAULT. Each of the following shall constitute an Event of Default under this Agreement:

Payment Default. Grantor fails to make any payment when due under the Indebtedness.

Other Defaults. Grantor fails to comply with or to perform any other term, obligation, covenant or condition contained in this Agreement or in any of the Related Documents or to comply with or to perform any term, obligation, covenant or condition contained in any other agreement between Lender and Grantor.

Default in Favor of Third Parties. Any guarantor or Grantor defaults under any loan, extension of credit, security agreement, purchase or sales agreement, or any other agreement, in favor of any other creditor or person that may materially affect any of any guarantor's or Grantor's property or ability to perform their respective obligations under this Agreement or any of the Related Documents.

False Statements. Any warranty, representation or statement made or furnished to Lender by Grantor or on Grantor's behalf under this Agreement or the Related Documents is false or misleading in any material respect, either now or at the time made or furnished or becomes false or misleading at any time thereafter.

Defective Collateralization. This Agreement or any of the Related Documents ceases to be in full force and effect (including failure of any

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collateral document to create a valid and perfected security interest or lien) at any time and for any reason.

Insolvency. The dissolution of Grantor (regardless of whether election to continue is made), any member withdraws from the limited liability company, or any other termination of Grantor's existence as a going business or the death of any member, the insolvency of Grantor, the appointment of a receiver for any part of Grantor's property, any assignment for the benefit of creditors, any type of creditor workout, or the commencement of any proceeding under any bankruptcy or insolvency laws by or against Grantor.

Creditor or Forfeiture Proceedings. Commencement of foreclosure or forfeiture proceedings, whether by judicial proceeding, self-help, repossession or any other method, by any creditor of Grantor or by any governmental agency against any collateral securing the Indebtedness. This includes a garnishment of any of Grantor's accounts, including deposit accounts, with Lender. However, this Event of Default shall not apply if there is a good faith dispute by Grantor as to the validity or reasonableness of the claim which is the basis of the creditor or forfeiture proceeding and if Grantor gives Lender written notice of the creditor or forfeiture proceeding and deposits with Lender monies or a surety bond for the creditor or forfeiture proceeding, in an amount determined by Lender, in its sole discretion, as being an adequate reserve or bond for the dispute.

Events Affecting Guarantor. Any of the preceding events occurs with respect to any Guarantor of any of the Indebtedness or Guarantor dies or becomes incompetent or revokes or disputes the validity of, or liability under, any Guaranty of the Indebtedness.

Adverse Change. A material adverse change occurs in Grantor's financial condition, or Lender believes the prospect of payment or performance of the Indebtedness is impaired.

RIGHTS AND REMEDIES ON DEFAULT. If an Event of Default occurs under this Agreement, at any time thereafter, Lender shall have all the rights of a secured party under the Wisconsin Uniform Commercial Code. In addition and without limitation, Lender may exercise any one or more of the following rights and remedies:

Accelerate Indebtedness. Lender may declare the entire Indebtedness, including any prepayment penalty which Grantor would be required to pay, immediately due and payable, without notice of any kind to Grantor.

Assemble Collateral. Lender may require Grantor to deliver to Lender all or any portion of the Collateral and any and all certificates of title and other documents relating to the Collateral. Lender may require Grantor to assemble the Collateral and make it available to Lender at a place to be designated by Lender. Lender also shall have full power to enter upon the property of Grantor to take possession of and remove the Collateral. If the Collateral contains other goods not covered by this Agreement at the time of repossession, Grantor agrees Lender may take such other goods, provided that Lender makes reasonable efforts to return them to Grantor after repossession.

Sell the Collateral. Lender shall have full power to sell, lease, transfer, or otherwise deal with the Collateral or proceeds thereof in Lender's own name or that of Grantor. Lender may sell the Collateral at public auction or private sale. Unless the Collateral threatens to decline speedily in value or is of a type customarily sold on a recognized market, Lender will give Grantor, and other persons as required by law, reasonable notice of the time and place of any public sale, or the time after which any private sale or any other disposition of the Collateral is to be made. However, no notice need be provided to any person who, after Event of Default occurs, enters into and authenticates an agreement waiving that person's right to notification of sale. The requirements of reasonable notice shall be met if such notice is given at least ten (10) days before the time of the sale or disposition. All expenses relating to the disposition of the Collateral, including without limitation the expenses of retaking, holding, insuring, preparing for sale and selling the Collateral, shall become a part of the Indebtedness secured by this Agreement and shall be payable on demand, with interest at the Note rate from date of expenditure until repaid.

Appoint Receiver. Lender shall have the right to have a receiver appointed to take possession of all or any part of the Collateral, with the power to protect and preserve the Collateral, to operate the Collateral preceding foreclosure or sale, and to collect the rents from the Collateral and apply the proceeds, over and above the cost of the receivership, against the Indebtedness or as the court may direct. The receiver may serve without bond if permitted by law. Lender's right to the appointment of a receiver shall exist whether or not the apparent value of the Collateral exceeds the Indebtedness by a substantial amount. Employment by Lender shall not disqualify a person from serving as a receiver.

Collect Revenues, Apply Accounts. Lender, either itself or through a receiver, may collect the payments, rents, income, and revenues from the Collateral. Lender may at any time in Lender's discretion transfer any Collateral into Lender's own name or that of Lender's nominee and receive the payments, rents, income, and revenues therefrom and hold the same as security for the Indebtedness or apply it to payment of the Indebtedness in such order of preference as Lender may determine. Insofar as the Collateral consists of accounts, general intangibles, insurance policies, instruments, chattel paper, choses in action, or similar property, Lender may demand, collect, receipt for, settle, compromise, adjust, sue for, foreclose, or realize on the Collateral as Lender may determine, whether or not Indebtedness or Collateral is then due. For these purposes, Lender may, on behalf of and in the name of Grantor, receive, open and dispose of mail addressed to Grantor; change any address to which mail and payments are to be sent; and endorse notes, checks, drafts, money orders, documents of title, instruments and items pertaining to payment, shipment, or storage of any Collateral. To facilitate collection, Lender may notify account debtors and obligors on any Collateral to make payments directly to Lender.

Obtain Deficiency. If Lender chooses to sell any or all of the Collateral, Lender may obtain a judgment against Grantor for any deficiency remaining on the Indebtedness due to Lender after application of all amounts received from the exercise of the rights provided in this Agreement. Grantor shall be liable for a deficiency even if the transaction described in this subsection is a sale of accounts or chattel paper.

Other Rights and Remedies. Lender shall have all the rights and remedies of a secured creditor under the provisions of the Uniform Commercial Code, as may be amended from time to time. In addition, Lender shall have and may exercise any or all other rights and remedies it may have available at law, in equity, or otherwise.

Election of Remedies. Except as may be prohibited by applicable law, all of Lender's rights and remedies, whether evidenced by this Agreement, the Related Documents, or by any other writing, shall be cumulative and may be exercised singularly or concurrently. Election by Lender to pursue any remedy shall not exclude pursuit of any other remedy, and an election to make expenditures or to take action to perform an obligation of Grantor under this Agreement, after Grantor's failure to perform, shall not affect Lender's right to declare a default and exercise its remedies.

MISCELLANEOUS PROVISIONS. The following miscellaneous provisions are a part of this Agreement:

Amendments. This Agreement, together with any Related Documents, constitutes the entire understanding and agreement of the parties as to the matters set forth in this Agreement. No alteration of or amendment to this Agreement shall be effective unless given in writing and signed by the party or parties sought to be charged or bound by the alteration or amendment.

Attorneys' Fees; Expenses. Grantor agrees to pay upon demand all of Lender's costs and expenses, including Lender's attorneys' fees and Lender's legal expenses, incurred in connection with the enforcement of this Agreement. Lender may hire or pay someone else to help enforce this Agreement, and Grantor shall pay the costs and expenses of such enforcement. Costs and expenses include Lender's

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attorneys' fees and legal expenses whether or not there is a lawsuit, including attorneys' fees and legal expenses for bankruptcy proceedings (including efforts to modify or vacate any automatic stay or injunction), appeals, and any anticipated post-judgment collection services. Grantor also shall pay all court costs and such additional fees as may be directed by the court.

Caption Headings. Caption headings in this Agreement are for convenience purposes only and are not to be used to interpret or define the provisions of this Agreement.

Governing Law. This Agreement will be governed by federal law applicable to Lender and, to the extent not preempted by federal law, the laws of the State of Wisconsin without regard to its conflicts of law provisions. This Agreement has been accepted by Lender in the State of Wisconsin.

No Waiver by Lender. Lender shall not be deemed to have waived any rights under this Agreement unless such waiver is given in writing and signed by Lender. No delay or omission on the part of Lender in exercising any right shall operate as a waiver of such right or any other right. A waiver by Lender of a provision of this Agreement shall not prejudice or constitute a waiver of Lender's right otherwise to demand strict compliance with that provision or any other provision of this Agreement. No prior waiver by Lender, nor any course of dealing between Lender and Grantor, shall constitute a waiver of any of Lender's rights or of any of Grantor's obligations as to any future transactions. Whenever the consent of Lender is required under this Agreement, the granting of such consent by Lender in any instance shall not constitute continuing consent to subsequent instances where such consent is required and in all cases such consent may be granted or withheld in the sole discretion of Lender.

Notices. Any notice required to be given under this Agreement shall be given in writing, and shall be effective when actually delivered, when actually received by telefacsimile (unless otherwise required by law), when deposited with a nationally recognized overnight courier, or, if mailed, when deposited in the United States mail, as first class, certified or registered mail postage prepaid, directed to the addressee shown near the beginning of this Agreement. Any party may change its address for notices under this Agreement by giving formal written notice to the other parties, specifying that the purpose of the notice is to change the party's address. For notice purposes, Grantor agrees to keep Lender informed at all times of Grantor's current address. Unless otherwise provided or required by law, if there is more than one Grantor, any notice given by Lender to any Grantor is deemed to be notice given to all Grantors.

Power of Attorney. Grantor hereby appoints Lender as Grantor's irrevocable attorney-in-fact for the purpose of executing any documents necessary to perfect, amend, or to continue the security interest granted in this Agreement or to demand termination of filings of other secured parties. Lender may at any time, and without further authorization from Grantor, file a carbon, photographic or other reproduction of any financing statement or of this Agreement for use as a financing statement. Grantor will reimburse Lender for all expenses for the perfection and the continuation of the perfection of Lender's security interest in the Collateral.

Severability. If a court of competent jurisdiction finds any provision of this Agreement to be illegal, invalid, or unenforceable as to any circumstance, that finding shall not make the offending provision illegal, invalid, or unenforceable as to any other circumstance. If feasible, the offending provision shall be considered modified so that it becomes legal, valid and enforceable. If the offending provision cannot be so modified, it shall be considered deleted from this Agreement. Unless otherwise required by law, the illegality, invalidity, or unenforceability of any provision of this Agreement shall not affect the legality, validity or enforceability of any other provision of this Agreement.

Successors and Assigns. Subject to any limitations stated in this Agreement on transfer of Grantor's interest, this Agreement shall be binding upon and inure to the benefit of the parties, their successors and assigns. If ownership of the Collateral becomes vested in a person other than Grantor, Lender, without notice to Grantor, may deal with Grantor's successors with reference to this Agreement and the Indebtedness by way of forbearance or extension without releasing Grantor from the obligations of this Agreement or liability under the Indebtedness.

Survival of Representations and Warranties. All representations, warranties, and agreements made by Grantor in this Agreement shall survive the execution and delivery of this Agreement, shall be continuing in nature, and shall remain in full force and effect until such time as Grantor's Indebtedness shall be paid in full.

Time is of the Essence. Time is of the essence in the performance of this Agreement.

DEFINITIONS. The following capitalized words and terms shall have the following meanings when used in this Agreement. Unless specifically stated to the contrary, all references to dollar amounts shall mean amounts in lawful money of the United States of America. Words and terms used in the singular shall include the plural, and the plural shall include the singular, as the context may require. Words and terms not otherwise defined in this Agreement shall have the meanings attributed to such terms in the Uniform Commercial Code:

Agreement. The word "Agreement" means this Commercial Security Agreement, as this Commercial Security Agreement may be amended or modified from time to time, together with all exhibits and schedules attached to this Commercial Security Agreement from time to time.

Borrower. The word "Borrower" means Ravin Crossbows, LLC and includes all co-signers and co-makers signing the Note and all their successors and assigns.

Collateral. The word "Collateral" means all of Grantor's right, title and interest in and to all the Collateral as described in the Collateral Description section of this Agreement.

Default. The word "Default" means the Default set forth in this Agreement in the section titled "Default".

Environmental Laws. The words "Environmental Laws" mean any and all state, federal and local statutes, regulations and ordinances relating to the protection of human health or the environment, including without limitation the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended, 42 U.S.C. Section 9601, et seq. ("CERCLA"), the Superfund Amendments and Reauthorization Act of 1986, Pub. L. No. 99-499 ("SARA"), the Hazardous Materials Transportation Act, 49 U.S.C. Section 1801, et seq., the Resource Conservation and Recovery Act, 42 U.S.C. Section 6901, et seq., or other applicable state or federal laws, rules, or regulations adopted pursuant thereto.

Event of Default. The words "Event of Default" mean any of the events of default set forth in this Agreement in the default section of this Agreement.

Grantor. The word "Grantor" means Ravin Crossbows, LLC.

Guarantor. The word "Guarantor" means any guarantor, surety, or accommodation party of any or all of the Indebtedness.

Guaranty. The word "Guaranty" means the guaranty from Guarantor to Lender, including without limitation a guaranty of all or part of the Note.

Hazardous Substances. The words "Hazardous Substances" mean materials that, because of their quantity, concentration or physical, chemical or infectious characteristics, may cause or pose a present or potential hazard to human health or the environment when improperly used, treated, stored, disposed of, generated, manufactured, transported or otherwise handled. The words "Hazardous

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Substances" are used in their very broadest sense and include without limitation any and all hazardous or toxic substances, materials or waste as defined by or listed under the Environmental Laws. The term "Hazardous Substances" also includes, without limitation, petroleum and petroleum by-products or any fraction thereof and asbestos.

Indebtedness. The word "Indebtedness" means the Indebtedness evidenced by the Note or Related Documents, including all principal and interest together with all other indebtedness and costs and expenses for which Grantor is responsible under this Agreement or under any of the Related Documents. Specifically, without limitation, Indebtedness includes all amounts that may be indirectly secured by the Cross-Collateralization provision of this Agreement.

Lender. The word "Lender" means National Bank of Commerce, its successors and assigns.

Note. The word "Note" means the Note dated January 30, 2017 and executed by Ravin Crossbows, LLC in the principal amount of $5,000,000.00, together with all renewals of, extensions of, modifications of, refinancings of, consolidations of, and substitutions for the note or credit agreement.

Property. The word "Property" means all of Grantor's right, title and interest in and to all the Property as described in the "Collateral Description" section of this Agreement.

Related Documents. The words "Related Documents" mean all promissory notes, credit agreements, loan agreements, environmental agreements, guaranties, security agreements, mortgages, deeds of trust, security deeds, collateral mortgages, and all other instruments, agreements and documents, whether now or hereafter existing, executed in connection with the Indebtedness.

GRANTOR HAS READ AND UNDERSTOOD ALL THE PROVISIONS OF THIS COMMERCIAL SECURITY AGREEMENT AND AGREES TO ITS TERMS. THIS AGREEMENT IS DATED JANUARY 30, 2017.

GRANTOR:

RAVIN CROSSBOWS, LLC

By: _____
Larry R. Pulkrabek, President of Ravin Crossbows, LLC

LaserPro, Ver. 16.3.10.005 Copr. D+H USA Corporation 1997, 2017. All Rights Reserved. - WI CFI\LPL\G201.FC TR-5344 PR-12

L.P. 2-6-17

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/107,058	05/31/2016	9354015	56169/4600	5994

84405 7590 05/11/2016

Karl G Schwappach
17 south Long Lake Trail
North Oaks, MN 55127

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 298 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

Ravin Crossbows, LLC, Superior, WI;
CRAIG THOMAS YEHLE, Holmen, WI;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

Modification of Forms PTO-1449 and PTO/SB/08

U.S. PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT

(Use as many sheets as necessary)

Application No.	14/107,058
Filing Date	12-16-2013
First Named Inventor	YEHLE, CRAIG THOMAS
Art Unit	3711
Examiner Name	
Attorney Docket No.	49398/4600

	35.	US- 6,736,123	05-18-2004	Summers, et al.	
	36.	US- 6,776,148	08-17-2004	Islas	
	37.	US- 6,786,214	09-07-2004	Andrews	
	38.	US- 6,799,566	10-05-2004	Malucelli	
	39.	US- 2005/0022799	02-03-2005	Bednar	
	40.	US- 6,901,921	06-07-2005	Barnett	
	41.	US- 6,913,007	07-05-2005	Bednar	
	42.	US- 2007/0028907	02-08-2007	Bednar, et al.	
	43.	US- 7,174,884	02-13-2007	Kempf, et al.	
	44.	US- 7,204,242	04-17-2007	Dziekan	
	45.	US- 7,305,979	12-11-2007	Yehle	
	46.	US- 7,328,693	02-12-2008	Kempf	
	47.	US- 7,363,921	04-29-2008	Kempf	
	48.	US- D589,578	03-31-2009	Choma	
	49.	US- D590,907	04-21-2009	Barnett	
	50.	US- 2009/0178657	07-16-2009	Shaffer	
	51.	US- 2009/0194086	08-06-2009	Kempf	
	52.	US- 7,624,724	12-01-2009	Bednar, et al.	
	53.	US- 7,624,725	12-01-2009	Choma	
	54.	US- 2010/0012108	01-21-2010	Bednar, et al.	
	55.	US- 2010/0031945	02-11-2010	Shaffer, et al.	
	56.	US- 7,677,233	03-16-2010	Bednar	
	57.	US- 7,708,001	05-04-2010	Kempf	
	58.	US- 2010/0154768	06-24-2010	Bednar, et al.	
	59.	US- 7,743,760	06-29-2010	Woodland	
	60.	US- 7,748,370	07-06-2010	Choma	
	61.	US- 2010/0170487	07-08-2010	Kronengold, et al.	
	62.	US- 2010/0170488	07-08-2010	Rasor, et al.	
	63.	US- 2010/0186728	07-29-2010	Bednar, et al.	
	64.	US- 7,770,567	08-10-2010	Yehle	
	65.	US- 7,810,480	10-12-2010	Shepley, et al.	
	66.	US- 2010/0269807	10-28-2010	Kempf	
	67.	US- 7,836,871	11-23-2010	Kempf	
	68.	US- 2011/0308508	~~05-26-2011~~ 12/2011	Islas	
	69.	US- 7,997,258	08-16-2011	Shepley, et al.	
	70.	US- 2011/0203561	08-25-2011	Shaffer, et al.	
	71.	US- 8,016,703	09-13-2011	Kronengold, et al.	

Change(s) applied to document,
/S.K./
5/4/2015

EXAMINER SIGNATURE	DATE CONSIDERED
/Amir Klayman/	12/03/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1]Enter Office that issued the document, by two-letter code (WIPO Std. ST.3). [2]For Japanese patent documents, the year of the reign of the Emperor must precede the serial number of the document. [3]Place a check mark here if English language translation is attached or "Abs." if English language abstract is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.K./ 023

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ALEXANDRIA VA 22313-1451

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Karl G Schwappach
17 south Long Lake Trail
North Oaks, MN 55127

Courtesy Reminder for
Application Serial No: 14/107,058

Attorney Docket No: 56169/4600
Customer Number: 84405
Date of Electronic Notification: 04/25/2016

This is a courtesy reminder that new correspondence is available for this application. If you have not done so already, please review the correspondence. The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

An email notification regarding the correspondence was sent to the following email address(es) associated with your customer number:

karl@threelabip.com
kschwappach@comcast.net

To view your correspondence online or update your email addresses, please visit us anytime at **https://sportal.uspto.gov/secure/myportal/privatepair.** If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov or call 1-866-217-9197.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

84405 7590 04/25/2016
Karl G Schwappach
17 south Long Lake Trail
North Oaks, MN 55127

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/107,058	12/16/2013	CRAIG THOMAS YEHLE	56169/4600	5994

TITLE OF INVENTION: STRING GUIDE SYSTEM FOR A BOW

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	07/25/2016

EXAMINER	ART UNIT	CLASS-SUBCLASS
KLAYMAN, AMIR ARIE	3711	124-025600

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.
1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: Ravin Crossbows, LLC
(B) RESIDENCE: (CITY and STATE OR COUNTRY): Superior, WI

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:
- ☒ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☒ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature Karl Schwappach Date 4/28/16
Typed or printed name KARL SCHWAPPACH Registration No. 35,786

Electronic Patent Application Fee Transmittal

Application Number:	14107058
Filing Date:	16-Dec-2013
Title of Invention:	STRING GUIDE SYSTEM FOR A BOW
First Named Inventor/Applicant Name:	CRAIG THOMAS YEHLE
Filer:	Karl G. Schwappach
Attorney Docket Number:	56169/4600

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Utility Appl Issue Fee	2501	1	480	480

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**480**

Electronic Acknowledgement Receipt

EFS ID:	25620175
Application Number:	14107058
International Application Number:	
Confirmation Number:	5994
Title of Invention:	STRING GUIDE SYSTEM FOR A BOW
First Named Inventor/Applicant Name:	CRAIG THOMAS YEHLE
Customer Number:	84405
Filer:	Karl G. Schwappach
Filer Authorized By:	
Attorney Docket Number:	56169/4600
Receipt Date:	28-APR-2016
Filing Date:	16-DEC-2013
Time Stamp:	10:58:21
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$480
RAM confirmation Number	8236
Deposit Account	506923
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 CFR 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 CFR 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 CFR 1.19 (Document supply fees)

Charge any Additional Fees required under 37 CFR 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	IssueFeePayment4600.pdf	87036 d6571341eaf27545901d876c8d61835dbed17297	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30658 2bb333c1f8737ec035ccbcdd2bca1c1078d4fe29	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	117694		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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NOTICE OF ALLOWANCE AND FEE(S) DUE

84405 7590 04/25/2016

Karl G Schwappach
17 south Long Lake Trail
North Oaks, MN 55127

EXAMINER
KLAYMAN, AMIR ARIE

ART UNIT	PAPER NUMBER
3711	

DATE MAILED: 04/25/2016

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/107,058	12/16/2013	CRAIG THOMAS YEHLE	56169/4600	5994

TITLE OF INVENTION: STRING GUIDE SYSTEM FOR A BOW

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	07/25/2016

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

84405 7590 04/25/2016
Karl G Schwappach
17 south Long Lake Trail
North Oaks, MN 55127

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/107,058	12/16/2013	CRAIG THOMAS YEHLE	56169/4600	5994

TITLE OF INVENTION: STRING GUIDE SYSTEM FOR A BOW

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	07/25/2016

EXAMINER	ART UNIT	CLASS-SUBCLASS
KLAYMAN, AMIR ARIE	3711	124-025600

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. The following fee(s) are submitted:

❑ Issue Fee
❑ Publication Fee (No small entity discount permitted)
❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**

❑ A check is enclosed.
❑ Payment by credit card. Form PTO-2038 is attached.
❑ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29
NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

❑ Applicant asserting small entity status. See 37 CFR 1.27
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

❑ Applicant changing to regular undiscounted fee status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/107,058	12/16/2013	CRAIG THOMAS YEHLE	56169/4600	5994

84405 7590 04/25/2016

Karl G Schwappach
17 south Long Lake Trail
North Oaks, MN 55127

EXAMINER	
KLAYMAN, AMIR ARIE	

ART UNIT	PAPER NUMBER
3711	

DATE MAILED: 04/25/2016

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 14/107,058	Applicant(s) YEHLE, CRAIG THOMAS	
	Examiner AMIR KLAYMAN	Art Unit 3711	AIA (First Inventor to File) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *3/30/16*.

   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are *24-43*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov .

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
5. ☒ Examiner's Amendment/Comment
6. ☒ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Karl G. Schwappach on 4/6/2016.

The application has been amended as follows:

As per claim 40, in line 7, after "respectively" **insert**---wherein the first and second helical power cable take-up journals extending in a direction perpendicular to a rotation of the first and second draw string journals, respectively;---

2. The following is an examiner's statement of reasons for allowance: the examiner is persuaded by applicant's arguments filed on 1/4/2016. The examiner agrees that such structure of the crossbow, further including first and second helical power cable take-up journals extending in a direction perpendicular to a rotation of the first and second draw string guides, benefits the pulley mechanism in the manner of displacing the power cables (in relation to the string/main guide) as well as increasing the power of the drawn power cable/s (which inherently increases/adds more "draw strength/energy/power" to the bow).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

/A. K. /

Examiner, Art Unit 3711 4/6/16

/Melba Bumgarner/
Supervisory Patent Examiner, Art Unit 3711

OK TO ENTER: /A.A.K/

/mb/

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.	:	14/107,058	Confirmation No.	5994
Applicant	:	Yehle, Craig		
Title	:	STRING GUIDE SYSTEM FOR A BOW		
Filed	:	December 16, 2013		
TC/A.U.	:	3711		
Examiner	:	Klayman, Amir		
Docket No.	:	49398/4600		
Customer No.	:	84405		

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P.O. Box 1450
Alexandria, VA 22313-1450

I CERTIFY THAT THIS PAPER (ALONG WITH ANY REFERRED TO AS BEING ATTACHED OR ENCLOSED) IS BEING TRANSMITTED TO THE COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 ON MARCH 30, 2016, VIA THE USPTO-EFS-WEB FILING SYSTEM.

/Karl Schwappach/

AMENDMENT AND RESPONSE UNDER RULE 1.116
AND EXAMINER'S INTERVIEW SUMMARY

Dear Sir:

This Amendment and Response is submitted in reply to the FINAL Office Action mailed March 25, 2016.

Amendments to the claims are reflected in the **Listing of Claims** that begins on page 2 of this paper.

Remarks begin on page 7 of this paper.

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14107058	YEHLE, CRAIG THOMAS
	Examiner	Art Unit
	AMIR KLAYMAN	3711

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	12/03/2015	03/09/2016	04/06/2016						
	1	✓	-	-						
	2	✓	-	-						
	3	✓	-	-						
	4	✓	-	-						
	5	✓	-	-						
	6	✓	-	-						
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	28		✓	=						
	29		✓	=						
	30		✓	=						
	31		✓	=						
	32		✓	=						
	33		✓	=						
	34		✓	=						
	35		✓	=						
	36		✓	=						

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14107058	YEHLE, CRAIG THOMAS
	Examiner	**Art Unit**
	AMIR KLAYMAN	3711

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	12/03/2015	03/09/2016	04/06/2016						
	37		✓	=						
	38		✓	=						
	39		✓	=						
	40		✓	=						
	41		✓	=						
	42		✓	=						
	43		✓	=						

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14107058	YEHLE, CRAIG THOMAS
	Examiner	**Art Unit**
	AMIR KLAYMAN	3711

CPC							
Symbol						**Type**	**Version**
F41B		5	/	10		F	2013-01-01
F41B		5	/	105		I	2013-01-01
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CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
			/					
			/					

/AMIR KLAYMAN/ Examiner.Art Unit 3711	4/6/16	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/MELBA BUMGARNER/ Supervisory Patent Examiner.Art Unit 3711	04/11/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	6 & 7

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14107058	YEHLE, CRAIG THOMAS
	Examiner	**Art Unit**
	AMIR KLAYMAN	3711

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
124	25.6	F	4	1	B	5 / 10 (2006.01.01)						

CROSS REFERENCE(S)					
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				

/AMIR KLAYMAN/ Examiner.Art Unit 3711	4/6/16	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/MELBA BUMGARNER/ Supervisory Patent Examiner.Art Unit 3711	04/11/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	6 & 7

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14107058	YEHLE, CRAIG THOMAS
	Examiner	**Art Unit**
	AMIR KLAYMAN	3711

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
-	1	-	17	10	33										
-	2	-	18	11	34										
-	3	-	19	12	35										
-	4	-	20	13	36										
-	5	-	21	14	37										
-	6	-	22	15	38										
-	7	-	23	16	39										
-	8	1	24	17	40										
-	9	2	25	18	41										
-	10	3	26	19	42										
-	11	4	27	20	43										
-	12	5	28												
-	13	6	29												
-	14	7	30												
-	15	8	31												
-	16	9	32												

/AMIR KLAYMAN/ Examiner.Art Unit 3711	4/6/16	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/MELBA BUMGARNER/ Supervisory Patent Examiner.Art Unit 3711	04/11/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	6 & 7

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14107058	YEHLE, CRAIG THOMAS
	Examiner	Art Unit
	AMIR KLAYMAN	3711

CPC- SEARCHED		
Symbol	Date	Examiner
F41B5/10; 105; 1403; 123; 1484; 00; 12	12/3/15	/AK/

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor search, text search, PLUS search, NPL search.	12/3/15	/AK/
an updated search	3/9/16	/AK/

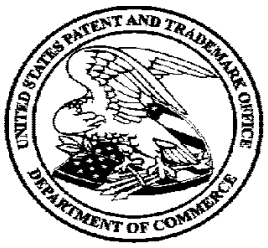
INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
F41B5	10;105;1403;123;148; 00;12	4/6/16	/AK/

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Karl G Schwappach
17 south Long Lake Trail
North Oaks, MN 55127





Courtesy Reminder for
Application Serial No: 14/107,058

Attorney Docket No: 56169/4600
Customer Number: 84405
Date of Electronic Notification: 03/25/2016

This is a courtesy reminder that new correspondence is available for this application. If you have not done so already, please review the correspondence. The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

An email notification regarding the correspondence was sent to the following email address(es) associated with your customer number:

karl@threelabip.com
kschwappach@comcast.net

To view your correspondence online or update your email addresses, please visit us anytime at **https://sportal.uspto.gov/secure/myportal/privatepair.** If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov or call 1-866-217-9197.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.	:	14/107,058	Confirmation No.	5994
Applicant	:	Yehle, Craig		
Title	:	STRING GUIDE SYSTEM FOR A BOW		
Filed	:	December 16, 2013		
TC/A.U.	:	3711		
Examiner	:	Klayman, Amir		
Docket No.	:	49398/4600		
Customer No.	:	84405		

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P.O. Box 1450
Alexandria, VA 22313-1450

I CERTIFY THAT THIS PAPER (ALONG WITH ANY REFERRED TO AS BEING ATTACHED OR ENCLOSED) IS BEING TRANSMITTED TO THE COMMISSIONER FOR PATENTS, P. O. BOX 1450, ALEXANDRIA, VA 22313-1450 ON MARCH 30, 2016, VIA THE USPTO-EFS-WEB FILING SYSTEM.

/Karl Schwappach /

AMENDMENT AND RESPONSE UNDER RULE 1.116
AND EXAMINER'S INTERVIEW SUMMARY

Dear Sir:

This Amendment and Response is submitted in reply to the FINAL Office Action mailed March 25, 2016.

Amendments to the claims are reflected in the **Listing of Claims** that begins on page 2 of this paper.

Remarks begin on page 7 of this paper.

Listing of Claims

Please cancel claims 1-23

24. (Currently amended) A crossbow, comprising:

a central portion comprising a down-range side and an up-range side;

first and second flexible limbs attached to the central portion;

a first string guide mounted to the first bow limb and rotatable around a first axis, the first string guide comprising a first draw string journal having a first plane of rotation perpendicular to the first axis, and a first helical power cable take-up journal extending ~~wrapped~~ in a direction perpendicular to the first plane of rotation of the first draw string journal;

a second string guide mounted to the second bow limb and rotatable around a second axis, the second string guide comprising a second draw string journal having a second plane of rotation perpendicular to the second axis, and a second helical power cable take-up journal extending ~~wrapped~~ in a direction perpendicular to the second plane of rotation of the second draw string journal;

a draw string received in the first and second draw string journals and secured to the crossbow in a reverse draw configuration with the draw string adjacent the down-range side of the string guides in a released configuration, wherein the draw string translates from the down-range side toward the up-range side and unwinds between the first and second string guides to a drawn configuration;

a first power cable received in the first helical power cable take-up journal; and

a second power cable received in the second helical power cable take-up journal,

wherein as the bow is drawn from the released configuration to the drawn configuration the first and second power cables wrap onto the first and second helical power cable take-up journals and are displaced along the first and second axes away from the first and second planes of rotation of the first and second draw string journals, respectively.

25. (Previously presented) The crossbow of claim 24 wherein the first and second power cables include first ends secured to the first and second string guides, respectively, and a second ends secured to the central portion of the crossbow.

26. (Previously presented) The crossbow of claim 24 wherein the first and second power cables do not cross over the central portion.

27. (Previously presented) The crossbow of claim 24 wherein the first and second planes of rotation of the first and second string guides are co-planar.

28. (Previously presented) The crossbow of claim 24 wherein the first and second helical power cable take-up journals wrap around the first and second axes in directions perpendicular to the first and second planes of rotation of the first and second draw string journals, respectively.

29. (Previously presented) The crossbow of claim 24 wherein the first and second helical power cable take-up journals comprise lengths that accommodates more than 360 degrees of rotation of the first and second string guides.

30. (Previously presented) The crossbow of claim 24 wherein the first and second draw string journals comprise lengths that accommodates more than 360 degrees of rotation of the first and second string guides.

31. (Previously presented) The crossbow of claim 24 wherein the first and second string guides rotate more than 270 degrees when the bow is drawn from the released configuration to the drawing configuration.

32. (Previously presented) The crossbow of claim 24 wherein the first and second string guides rotate more than 360 degrees when the bow is drawn from the released configuration to the drawing configuration.

33. (Previously presented) The crossbow of claim 24 wherein the first power cable includes a first end secured to the first draw string guide and a second end secured to the second axis.

34. (Currently amended) A crossbow, comprising:

a central portion comprising a down-range side and an up-range side;

first and second flexible limbs attached to the central portion;

a first string guide mounted to the first bow limb and rotatable around a first axis, the first string guide comprising a first draw string journal having a first plane of rotation perpendicular to the first axis, and a first power cable take-up journal extending ~~wrapped~~ around the first axis in a direction perpendicular to the first plane of rotation of the first draw string journal, wherein the first power cable take-up journals comprise lengths that accommodates more than 360 degrees of rotation of the first string guide;

a second string guide mounted to the second bow limb and rotatable around a second axis, the second string guide comprising a second draw string journal having a second plane of rotation perpendicular to the second axis, and a second power cable take-up journal extending ~~wrapped~~ around the second axis in a direction perpendicular to the second plane of rotation of the second draw string journal, wherein the second power cable take-up journals comprise lengths that accommodates more than 360 degrees of rotation of the second string guide;

a draw string received in the first and second draw string journals and secured to the crossbow in a reverse draw configuration with the draw string adjacent the down-range side of the string guides in a released configuration, wherein the draw string translates from the down-range side toward the up-range side and unwinds between the first and second string guides to a drawn configuration;

a first power cable received in the first power cable take-up journal; and

a second power cable received in the second power cable take-up journal,

wherein as the bow is drawn from the released configuration to the drawn configuration the first and second power cables wrap onto the first and second power cable take-up journals and are displaced along the first and second axes away from the first and second planes of rotation of the first and second draw string journals, respectively.

35. (Previously presented) The crossbow of claim 34 wherein the first and second power cables include first ends secured to the first and second string guides, respectively, and a second ends secured to the central portion of the crossbow.

36. (Previously presented) The crossbow of claim 34 wherein the first and second power cables do not cross over the central portion.

37. (Previously presented) The crossbow of claim 34 wherein the first and second draw string journals comprise lengths that accommodates more than 360 degrees of rotation of the first and second string guides.

38. (Previously presented) The crossbow of claim 34 wherein the first and second power cable take-up journals comprises helical journals that translate the first and second power cable away from the plane of rotation of the first and second string guides as the bow is drawn from the released configuration to the drawn configuration.

39. (Previously presented) The crossbow of claim 34 wherein a distance between the first and second axis when the bow is in the drawn configuration is about 8 inches.

40. (Currently amended) A method of operating a crossbow having first and second flexible limbs attached to a central portion, first and second string guides mounted to the

bow limbs, and a draw string journaled on the first and second string guides, the method comprising the steps of:

unwrapping the draw string from first and second draw string journals on the first and second string guides, the first and second string guides including first and second helical power cable take-up journals configured to receive first and second power cables, respectively; and

wrapping the first and second power cables onto the first and second helical power cable take-up journals on the first and second string guides, respectively, the first and second helical power cable take-up journals displacing the first and second power cables along first and second axes of rotation of the first and second string guides away from first and second planes of rotation of the first and second draw string journals, respectively.

41. (Previously presented) The method of claim 40 comprising attaching first ends of the first and second power cables to the first and second string guides, respectively, and attaching second ends of the first and second power cables to the central portion.

42. (Previously presented) The method of claim 41 comprising arranging the first and second power cables so as to not cross over the central portion.

43. (Previously presented) The method of claim 40 comprising sizing the first and second draw string journals with lengths that accommodates more than 360 degrees of rotation of the first and second string guides.

REMARKS

This Amendment and Response is submitted in reply to the FINAL Office Action mailed March 25, 2016.

The undersigned attorney conducted an interview with the Examiner on March 30, 2016 in order to discuss the requested clarification of the claims. The focus of the discussion was on the location of the power cable take-up journals with respect to the string guides and placement of the power cables onto the power cable take-up journals.

Claims 24 and 34 have been amended to recite the power take-up journals extending in a direction perpendicular to the plane of rotation of the respective draw string journals. The last paragraphs of claims 24 and 34 clearly recite that as the bow is drawn the power cables wrap on to the power cable take-up journals and are displaced along the first and second axes away from the first and second planes of rotation of the first and second draw string journals, respectively.

Claim 40 has been amended to provide antecedent for the first and second power cables and the first and second helical power cable take-up journals.

Applicant believes these amendments should overcome the rejection under 35 U.S.C. 112(b) and that the application is in condition for allowance.

No fees are believed necessary. Should any additional fees be required, the Commissioner is authorized to charge the necessary fees to our Deposit Account No. 506923 and is requested to notify us of the same.

Respectfully submitted,

/Karl G. Schwappach/

Karl G. Schwappach
Reg. No. 35,786
Attorney for Applicant

Date: March 30, 2016
THREE LAB IP, PLLC
17 South Long Lake Trail
North Oaks, MN 55127
Telephone: (612) 240-9505

Electronic Acknowledgement Receipt

EFS ID:	25349580
Application Number:	14107058
International Application Number:	
Confirmation Number:	5994
Title of Invention:	STRING GUIDE SYSTEM FOR A BOW
First Named Inventor/Applicant Name:	CRAIG THOMAS YEHLE
Customer Number:	84405
Filer:	Karl G. Schwappach
Filer Authorized By:	
Attorney Docket Number:	56169/4600
Receipt Date:	30-MAR-2016
Filing Date:	16-DEC-2013
Time Stamp:	16:23:32
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Response After Final Action	AmendmentAfterFinal4600.pdf	2273239 8736a7b73a3c6b1f531c4becede4c7c25884dd4a	no	7

Warnings:	
Information:	

Total Files Size (in bytes):	2273239

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 14/107,058	Filing Date 12/16/2013	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	x $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	x $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT **03/30/2016**

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 20	Minus	** 23	= 0	x $40 =	0
Independent (37 CFR 1.16(h))	* 3	Minus	***4	= 0	x $210 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

AMENDMENT

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	x $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	x $ =	
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/DAWN BREWER/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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Address: COMMISSIONER FOR PATENTS
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/107,058	12/16/2013	CRAIG THOMAS YEHLE	56169/4600	5994

84405 7590 03/25/2016

Karl G Schwappach
17 south Long Lake Trail
North Oaks, MN 55127

EXAMINER
KLAYMAN, AMIR ARIE

ART UNIT	PAPER NUMBER
3711	

NOTIFICATION DATE	DELIVERY MODE
03/25/2016	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

karl@threelabip.com
kschwappach@comcast.net

Office Action Summary	Application No. 14/107,058	Applicant(s) YEHLE, CRAIG THOMAS	
	Examiner AMIR KLAYMAN	Art Unit 3711	AIA (First Inventor to File) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *1/4/16*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *24-43* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *24-43* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *1/4/16* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of 35 U.S.C. 112(b):
(b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:
The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 24-43 are rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention.

Independent claims 24 and 34, each recites" helical power cable take up-journal wrapped in a direction perpendicular to the first plane of rotation (this limitations is related to a first and a second take up journals). It is unclear what applicant is referring by "wrapped in a direction perpendicular to the first plane of rotation". It is unclear what structure of the helical power cable take up journal applicant is attempting to encompass by such language. The examiner will also address this issue in the conclusion section below.

With respect to claim 40, the claim recites the limitations "first and second cables" and "first and second helical power cable take-up journals" in lines 6 and 7. There is insufficient antecedent basis for these limitations in the claim.

Conclusion

Note: The examiner is suggesting to define the power cable journal structure in a clearer language. It would be helpful to include the structure of the helical journal in relation to the string guide as well as the placement of the power cable upon the power cable journal that causes the power cable to be displace from the string guide (as argued by applicant in the remarks filed on 1/10/16). Further recite the journal to extend vertically from the axis of the string guide, or something similar.

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AMIR KLAYMAN whose telephone number is (571)270-7131. The examiner can normally be reached on Mo.- Fr. (7:30AM-5:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MELBA BUMGARNER can be reached on (571)272-4709. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A. K./
Examiner, Art Unit 3711 3/9/16

/Melba Bumgarner/
Supervisory Patent Examiner, Art Unit 3711

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14107058	YEHLE, CRAIG THOMAS
	Examiner	Art Unit
	AMIR KLAYMAN	3711

CPC- SEARCHED		
Symbol	Date	Examiner
F41B5/10; 105; 1403; 123; 1484; 00; 12	12/3/15	/AK/

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor search, text search, PLUS search, NPL search.	12/3/15	/AK/
an updated search	3/9/16	/AK/

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14107058	YEHLE, CRAIG THOMAS
	Examiner	Art Unit
	AMIR KLAYMAN	3711

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	12/03/2015	03/09/2016							
	1	✓	-							
	2	✓	-							
	3	✓	-							
	4	✓	-							
	5	✓	-							
	6	✓	-							
	7	✓	-							
	8	✓	-							
	9	✓	-							
	10	✓	-							
	11	✓	-							
	12	✓	-							
	13	✓	-							
	14	✓	-							
	15	✓	-							
	16	✓	-							
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	26		✓							
	27		✓							
	28		✓							
	29		✓							
	30		✓							
	31		✓							
	32		✓							
	33		✓							
	34		✓							
	35		✓							
	36		✓							

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14107058	YEHLE, CRAIG THOMAS
	Examiner	**Art Unit**
	AMIR KLAYMAN	3711

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	12/03/2015	03/09/2016							
	37		✓							
	38		✓							
	39		✓							
	40		✓							
	41		✓							
	42		✓							
	43		✓							

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/107,058	12/16/2013	CRAIG THOMAS YEHLE	56169/4600	5994

84405 7590 01/05/2016

Karl G Schwappach
17 south Long Lake Trail
North Oaks, MN 55127

EXAMINER
KLAYMAN, AMIR ARIE

ART UNIT	PAPER NUMBER
3711	

NOTIFICATION DATE	DELIVERY MODE
01/05/2016	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

karl@threelabip.com
kschwappach@comcast.net

Applicant-Initiated Interview Summary	**Application No.**	**Applicant(s)**	
	14/107,058	YEHLE, CRAIG THOMAS	
	Examiner	**Art Unit**	
	AMIR KLAYMAN	3711	

All participants (applicant, applicant's representative, PTO personnel):

(1) *AMIR KLAYMAN*. (3)____.

(2) *Karl Schwappach.* (4)____.

Date of Interview: *29 December 2015*.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☐102 ☐103 ☒Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: _____.

Identification of prior art discussed: _____.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Applicant explained his invention and in particular the structure of the helical journal and the anchor of the cable/s (i.e. attachment point 106A) of the cam assembly, to allow a rotational of more than 270 and 360 degrees (in relation to his drawings as shown in Figs. 7 and 8). The examiner stated that applicant did not claim such structure (emphasis added) that is different than the prior art (the examiner stated that the claims are so broad that the prior art of his drawings, as shown in Figs. 1-3, anticipated the claimed subject matter). The examiner suggested concentrating on this specific structure (again, as point out by applicant in relation to Figs. 7 and 8) to claim the specific structure that is different than the prior art (e.g. the specific helical means and the specific location of the attachment point that allowing such specific rotational means). Further consideration will be given upon applicant's actions. .

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/Melba Bumgarner/
Supervisory Patent Examiner, Art Unit 3711

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews
Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:
- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:
1) A brief description of the nature of any exhibit shown or any demonstration conducted,
2) an identification of the claims discussed,
3) an identification of the specific prior art discussed,
4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
5) a brief identification of the general thrust of the principal arguments presented to the examiner,
   (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
6) a general indication of any other pertinent matters discussed, and
7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.	:	14/107,058	Confirmation No.	5994
Applicant	:	Yehle, Craig		
Title	:	STRING GUIDE SYSTEM FOR A BOW		
Filed	:	December 16, 2013		
TC/A.U.	:	3711		
Examiner	:	Klayman, Amir		
Docket No.	:	49398/4600		
Customer No.	:	84405		

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

I CERTIFY THAT THIS PAPER (ALONG WITH ANY REFERRED TO AS BEING ATTACHED OR ENCLOSED) IS BEING TRANSMITTED TO THE COMMISSIONER FOR PATENTS, P. O. BOX 1450, ALEXANDRIA, VA 22313-1450 ON JANUARY 4, 2016, VIA THE USPTO-EFS-WEB FILING SYSTEM.

/Karl Schwappach /

AMENDMENT AND RESPONSE
AND EXAMINER'S INTERVIEW SUMMARY

Dear Sir:

This Amendment and Response is submitted in reply to the Office Action mailed December 11, 2015.

Amendments to the claims are reflected in the **Listing of Claims** that begins on page 3 of this paper.

Remarks begin on page 8 of this paper.

Listing of Drawing

Substitute Drawings are submitted for review and approval by the Examiner.

Listing of Claims

Please cancel claims 1-23

24. (New) A crossbow, comprising:

a central portion comprising a down-range side and an up-range side;

first and second flexible limbs attached to the central portion;

a first string guide mounted to the first bow limb and rotatable around a first axis, the first string guide comprising a first draw string journal having a first plane of rotation perpendicular to the first axis, and a first helical power cable take-up journal wrapped in a direction perpendicular to the first plane of rotation;

a second string guide mounted to the second bow limb and rotatable around a second axis, the second string guide comprising a second draw string journal having a second plane of rotation perpendicular to the second axis, and a second helical power cable take-up journal wrapped in a direction perpendicular to the second plane of rotation;

a draw string received in the first and second draw string journals and secured to the crossbow in a reverse draw configuration with the draw string adjacent the down-range side of the string guides in a released configuration, wherein the draw string translates from the down-range side toward the up-range side and unwinds between the first and second string guides to a drawn configuration;

a first power cable received in the first power cable take-up journal; and

a second power cable received in the second power cable take-up journal,

wherein as the bow is drawn from the released configuration to the drawn configuration the first and second power cables wrap onto the first and second helical power cable take-up journals and are displaced along the first and second axes away from the first and second planes of rotation of the first and second draw string journals, respectively.

25. (New) The crossbow of claim 24 wherein the first and second power cables include first ends secured to the first and second string guides, respectively, and a second ends secured to the central portion of the crossbow.

26. (New) The crossbow of claim 24 wherein the first and second power cables do not cross over the central portion.

27. (New) The crossbow of claim 24 wherein the first and second planes of rotation of the first and second string guides are co-planar.

28. (New) The crossbow of claim 24 wherein the first and second helical power cable take-up journals wrap around the first and second axes in directions perpendicular to the first and second planes of rotation of the first and second draw string journals, respectively.

29. (New) The crossbow of claim 24 wherein the first and second helical power cable take-up journals comprise lengths that accommodates more than 360 degrees of rotation of the first and second string guides.

30. (New) The crossbow of claim 24 wherein the first and second draw string journals comprise lengths that accommodates more than 360 degrees of rotation of the first and second string guides.

31. (New) The crossbow of claim 24 wherein the first and second string guides rotate more than 270 degrees when the bow is drawn from the released configuration to the drawing configuration.

32. (New) The crossbow of claim 24 wherein the first and second string guides rotate more than 360 degrees when the bow is drawn from the released configuration to the drawing configuration.

33. (New) The crossbow of claim 24 wherein the first power cable includes a first end secured to the first draw string guide and a second end secured to the second axis.

34. (New) A crossbow, comprising:

a central portion comprising a down-range side and an up-range side;

first and second flexible limbs attached to the central portion;

a first string guide mounted to the first bow limb and rotatable around a first axis, the first string guide comprising a first draw string journal having a first plane of rotation perpendicular to the first axis, and a first power cable take-up journal wrapped around the first axis in a direction perpendicular to the first plane of rotation, wherein the first power cable take-up journals comprise lengths that accommodates more than 360 degrees of rotation of the first string guide;

a second string guide mounted to the second bow limb and rotatable around a second axis, the second string guide comprising a second draw string journal having a second plane of rotation perpendicular to the second axis, and a second power cable take-up journal wrapped around the second axis in a direction perpendicular to the second plane of rotation, wherein the second power cable take-up journals comprise lengths that accommodates more than 360 degrees of rotation of the second string guide;

a draw string received in the first and second draw string journals and secured to the crossbow in a reverse draw configuration with the draw string adjacent the down-range side of the string guides in a released configuration, wherein the draw string translates from the down-range side toward the up-range side and unwinds between the first and second string guides to a drawn configuration;

a first power cable received in the first power cable take-up journal; and

a second power cable received in the second power cable take-up journal,

wherein as the bow is drawn from the released configuration to the drawn configuration the first and second power cables wrap onto the first and second power cable take-up journals and are displaced along the first and second axes away from the first and second planes of rotation of the first and second draw string journals, respectively.

35. (New) The crossbow of claim 34 wherein the first and second power cables include first ends secured to the first and second string guides, respectively, and a second ends secured to the central portion of the crossbow.

36. (New) The crossbow of claim 34 wherein the first and second power cables do not cross over the central portion.

37. (New) The crossbow of claim 34 wherein the first and second draw string journals comprise lengths that accommodates more than 360 degrees of rotation of the first and second string guides.

38. (New) The crossbow of claim 34 wherein the first and second power cable take-up journals comprises helical journals that translate the first and second power cable away from the plane of rotation of the first and second string guides as the bow is drawn from the released configuration to the drawn configuration.

39. (New) The crossbow of claim 34 wherein a distance between the first and second axis when the bow is in the drawn configuration is about 8 inches.

40. (New) A method of operating a crossbow having first and second flexible limbs attached to a central portion, first and second string guides mounted to the bow limbs, and a draw string journaled on the first and second string guides, the method comprising the steps of:

unwrapping the draw string from first and second draw string journals on the first and second string guides; and

wrapping first and second power cables onto first and second helical power cable take-up journals on the first and second string guides, respectively, the first and second helical power cable take-up journals displacing the first and second power cables along first and second axes of rotation of the first and second string guides away from first and second planes of rotation of the first and second draw string journals, respectively.

41. (New) The method of claim 40 comprising attaching first ends of the first and second power cables to the first and second string guides, respectively, and attaching second ends of the first and second power cables to the central portion.

42. (New) The method of claim 41 comprising arranging the first and second power cables so as to not cross over the central portion.

43. (New) The method of claim 40 comprising sizing the first and second draw string journals with lengths that accommodates more than 360 degrees of rotation of the first and second string guides.

REMARKS

This Amendment and Response is submitted in reply to the Office Action mailed December 16, 2015.

Substitute Drawings are submitted for review and approval by the Examiner.

Claims 1-23 have been cancelled and new claims 24-43 are submitted. In light of the new claims Applicant submits that the rejections under Sec. 112(b), 102, and 103 are moot.

The undersigned attorney conducted an interview with the Examiner on December 29, 2015 in order to discuss certain aspects of the present application. In particular, the string guides 104 include helical power cable take-up journals 122 extend in a direction perpendicular to the plane of rotation of the string guides 104. Consequently, as the bow is drawn from the released configuration to the drawn configuration, the power cables 102 wrap onto the helical power cable take-up journals and are displaced along the axes of rotation away from the planes of rotation of the draw string journals.

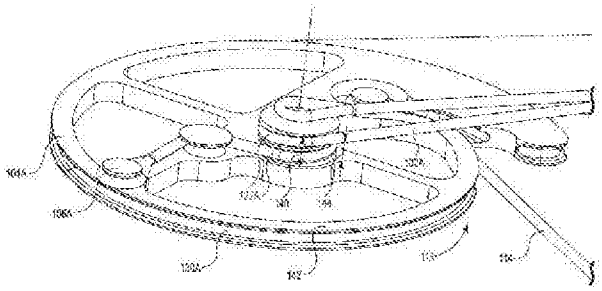


Fig. 7

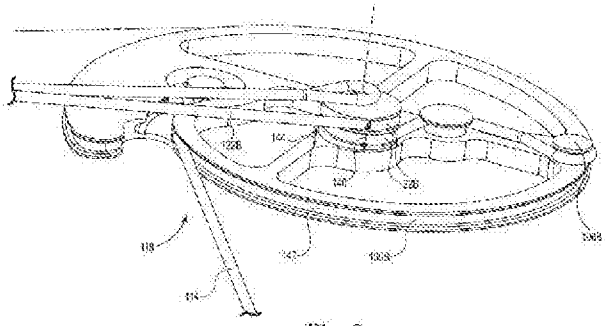


Fig. 8

This configuration provides a number of benefits. First, the helical journals 122 serve to displace the power cables 102 away from the string guides 104, so the first attachment points 106 do not contact the power cables 102 while the bow is being drawn (see Figures 7 and 8). Specification, para. [0034]. Second, the resulting gap 144 permits the first attachment points 106 and the power cable take-ups 112 to pass freely under the power cables 102. Specification, para. [0037]. Third, the increased length of the helical journals 122 permits the power stroke of the bow to be increased. The power stroke 132 can be increased by at least 25%, and preferably by 40% or more, without changing the diameter of the string guides 104. Specification, para. [0035].

In the embodiment of Figure 9A, the helical journals 204 permits the power cables 102 to wrap around about two full turns or about 720 degrees. The extended power cable take-up 202 increases the gap 206 between the power cables 102 and top surface 208 of the string guide 200 and provides excess capacity to accommodate more than 360 degrees of rotation of the string guides 200. Specification, para. [0038].

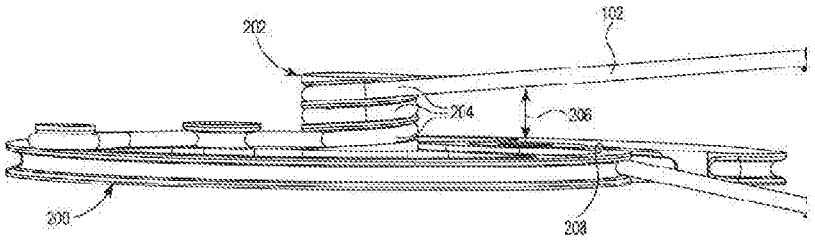


Fig. 9A

The embodiment of Figure 9B provides that the draw string journals 252 and the power cable journals 254 are both helical structures designed so that the draw string 114 and the power cables 102 can wrap two full turns around the string guide 250.

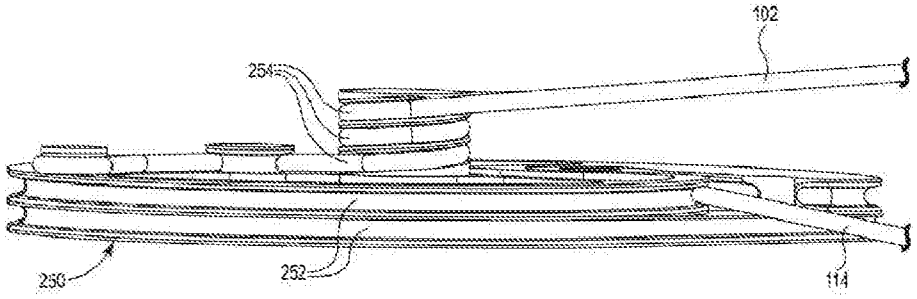


Fig. 9B

The cited reference to Kempf (US 7,708,001) does not disclose any structure that corresponds to the claimed power cable take-up journals. In light of the above summary, Applicant submits that the pending claims distinguish over the cited reference.

No fees are believed necessary. Should any additional fees be required, the Commissioner is authorized to charge the necessary fees to our Deposit Account No. 506923 and is requested to notify us of the same.

Respectfully submitted,

/Karl G. Schwappach/

Karl G. Schwappach
Reg. No. 35,786
Attorney for Applicant

Date: January 4, 2016

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Telephone: (612) 240-9505

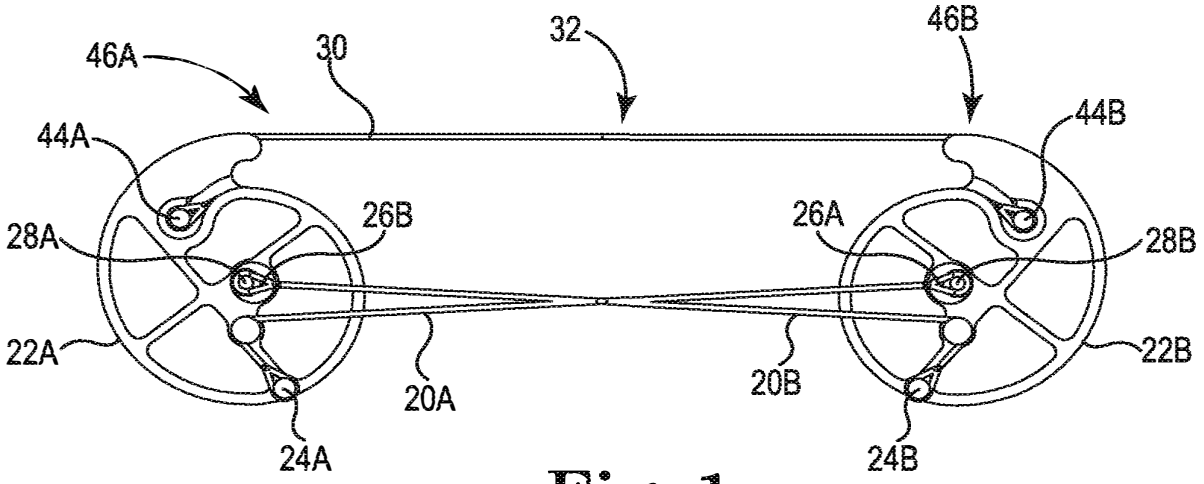


Fig. 1
PRIOR ART

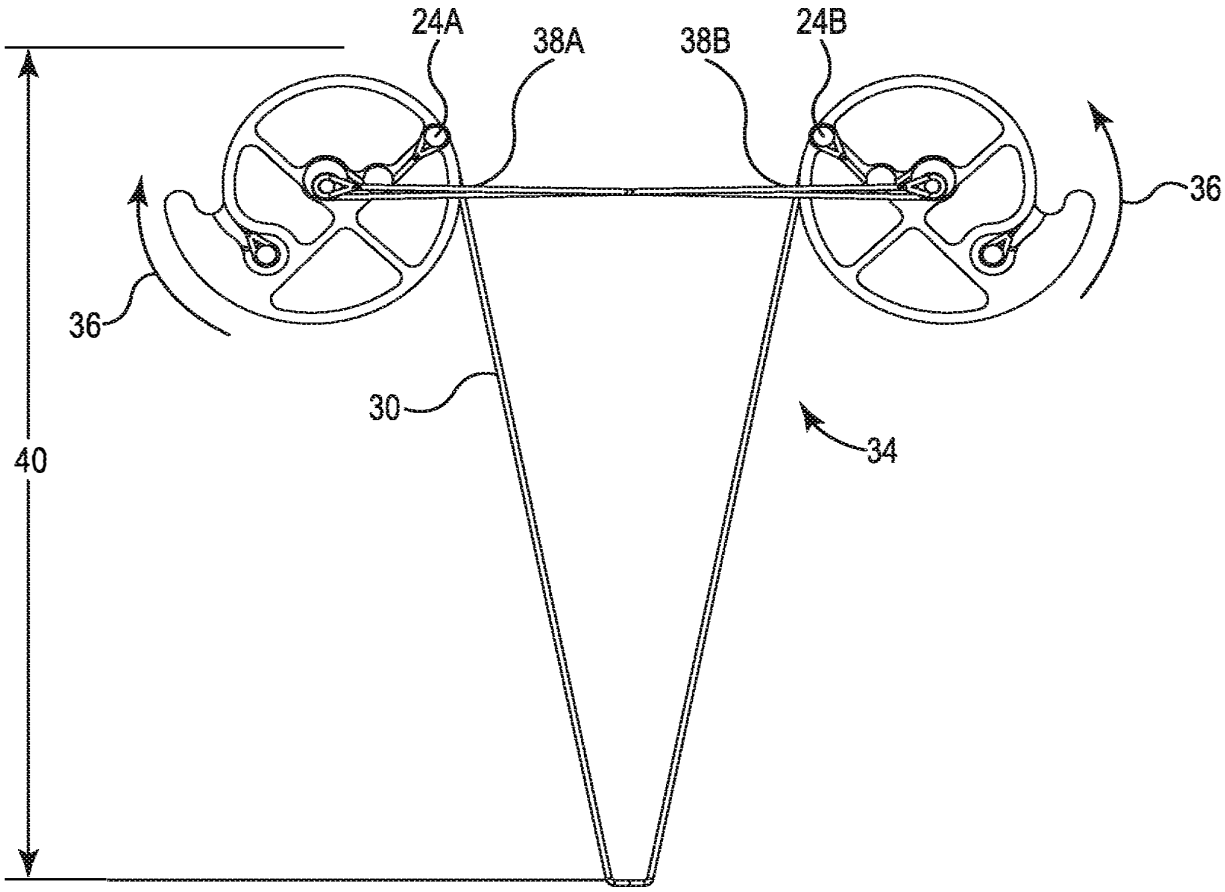


Fig. 2
PRIOR ART

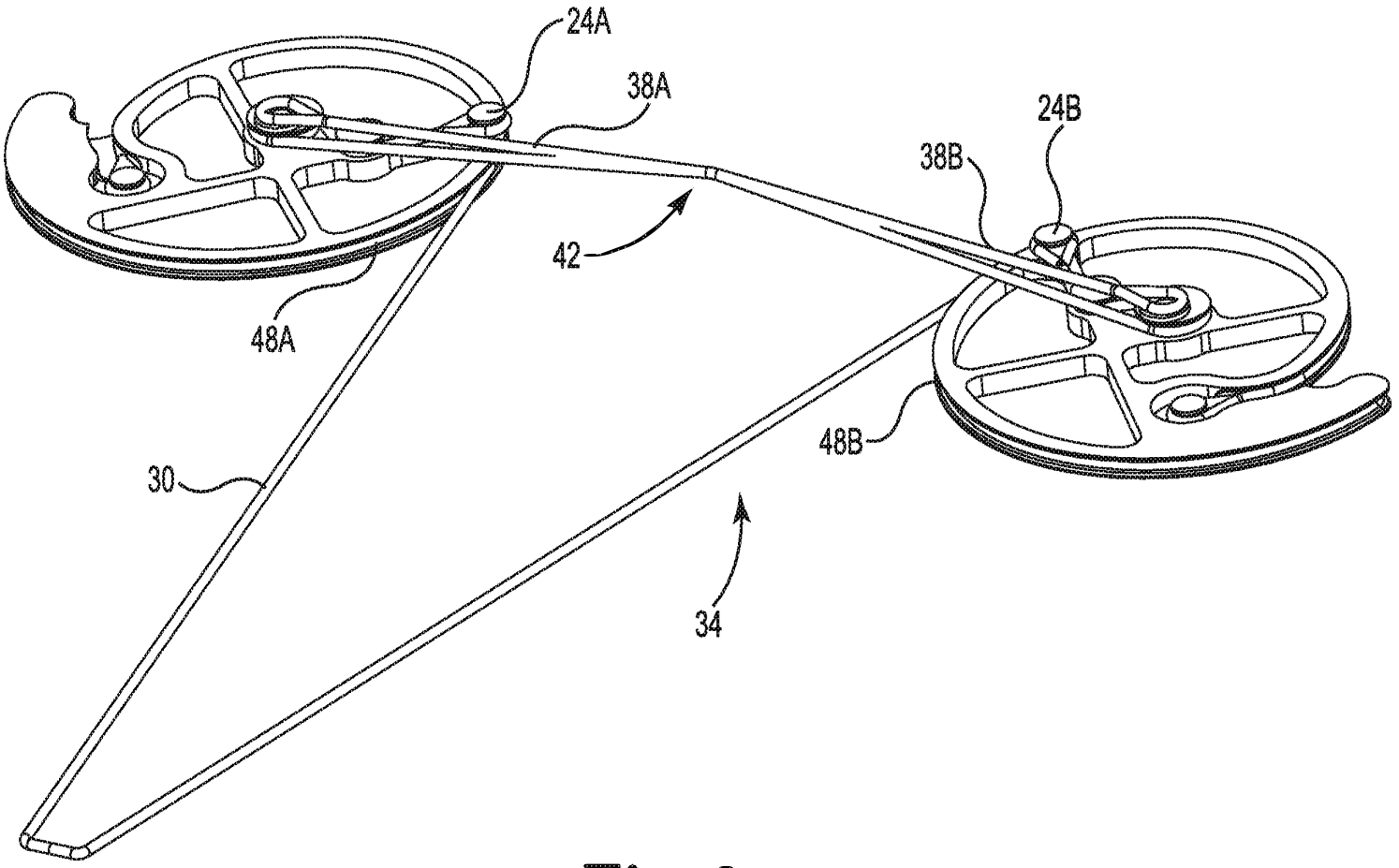


Fig. 3
PRIOR ART

REPLACEMENT SHEET

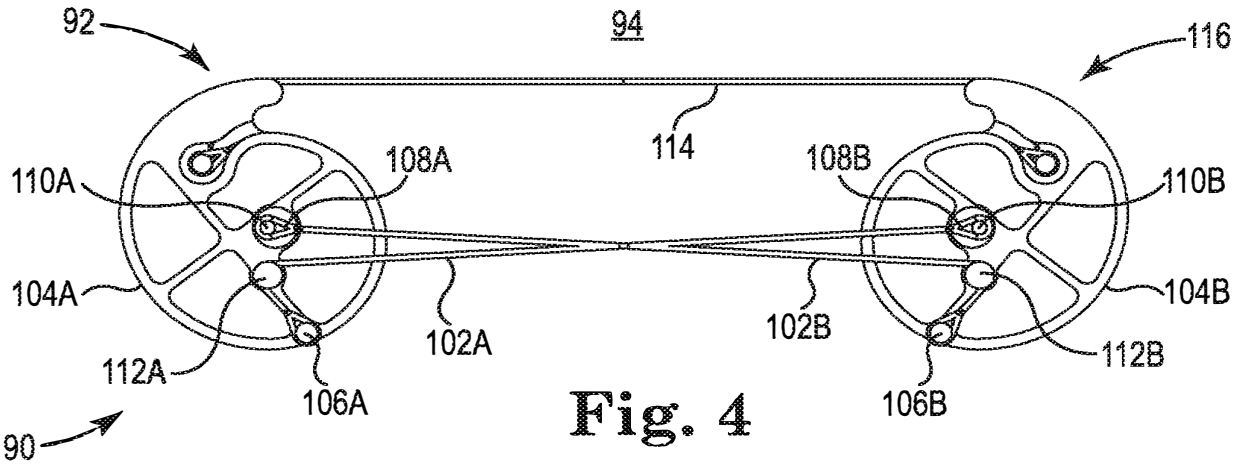

92
94
116
114
108A
108B
110A
110B
104A
104B
102A
102B
112A
112B
106A
106B
90

Fig. 4

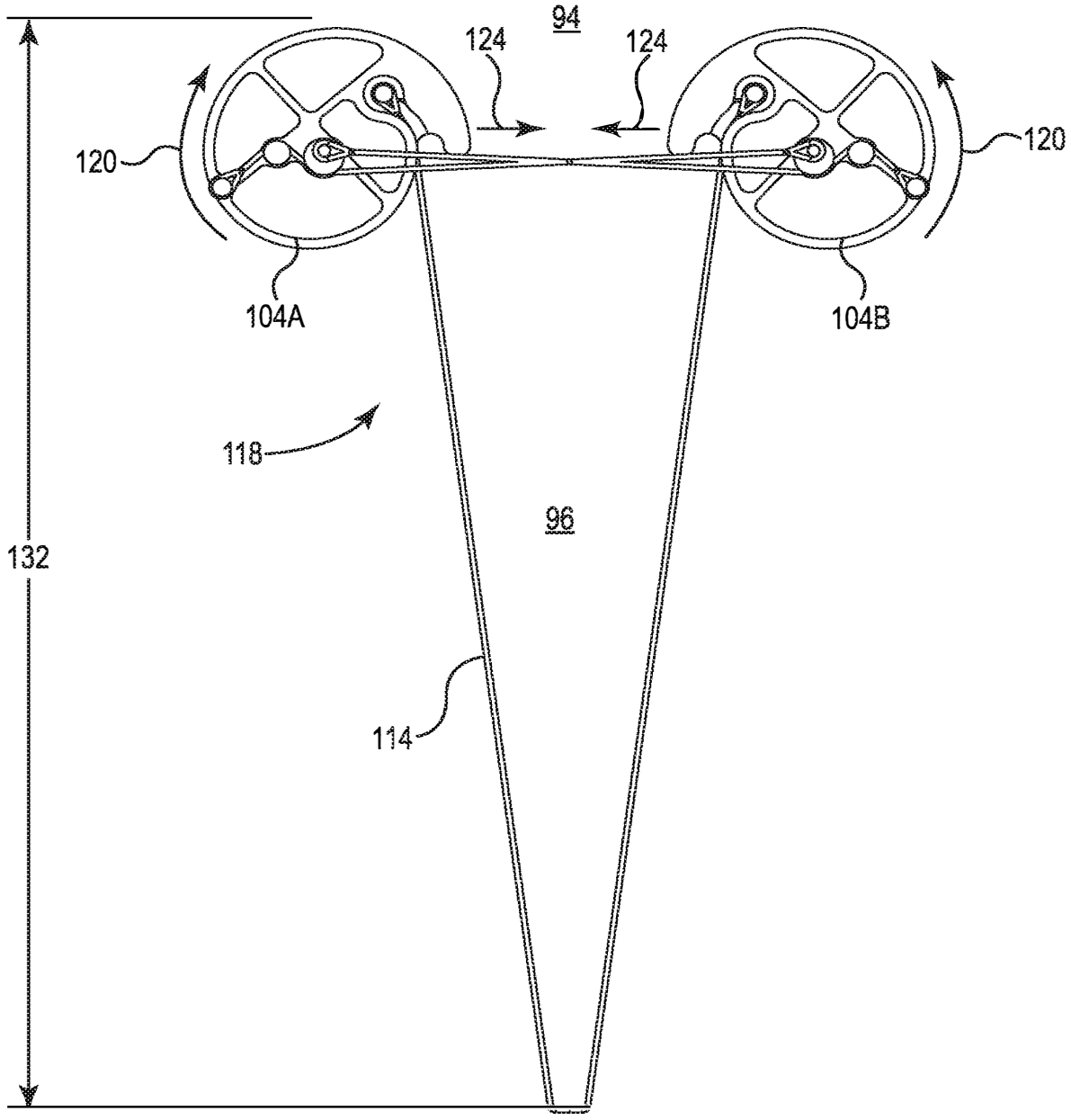

94
124
124
120
120
104A
104B
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96
132
114

Fig. 5

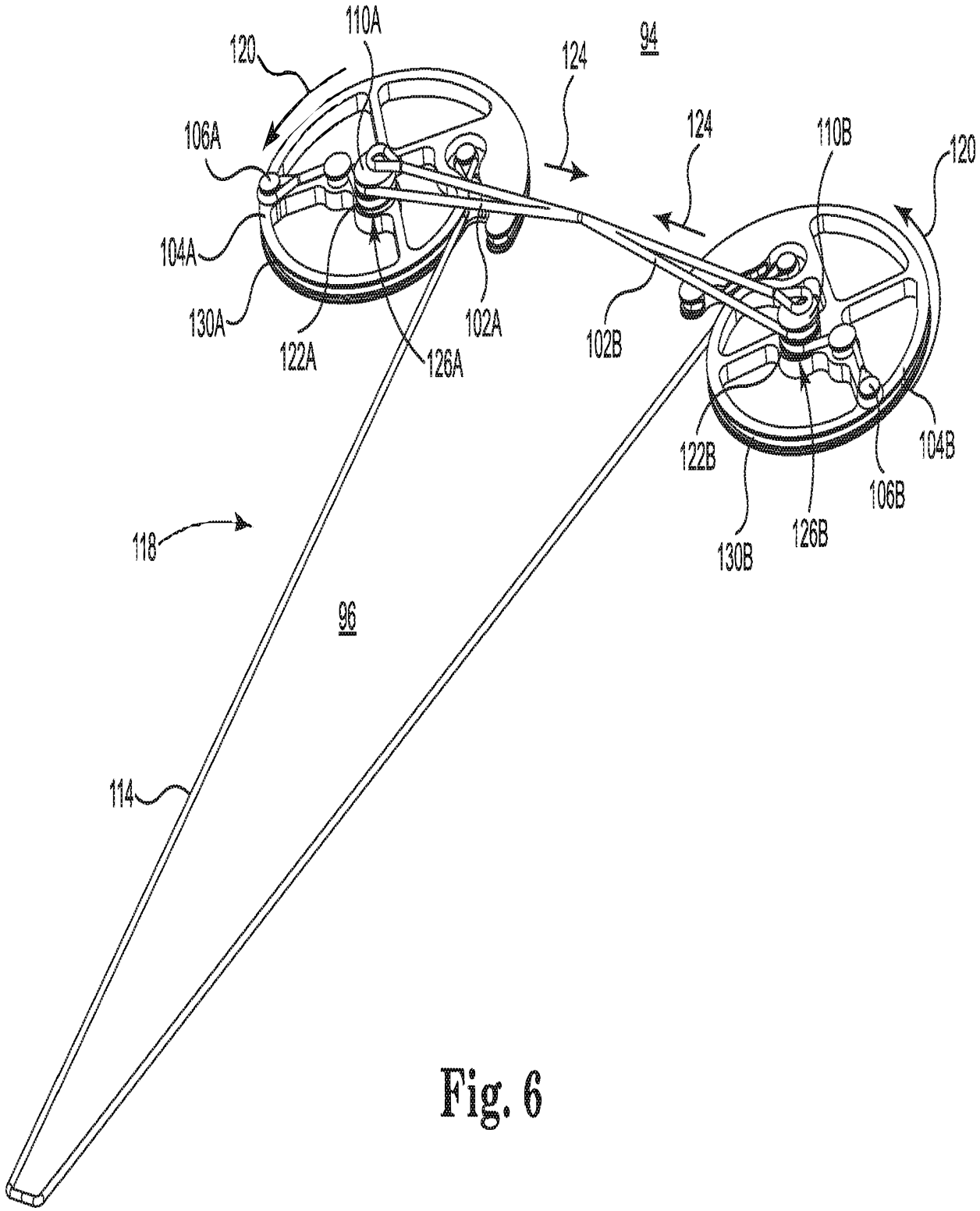

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120
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124
106A
124
110B
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104A
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122A
126A
102A
102B
122B
104B
106B
126B
130B
118
96
114

Fig. 6

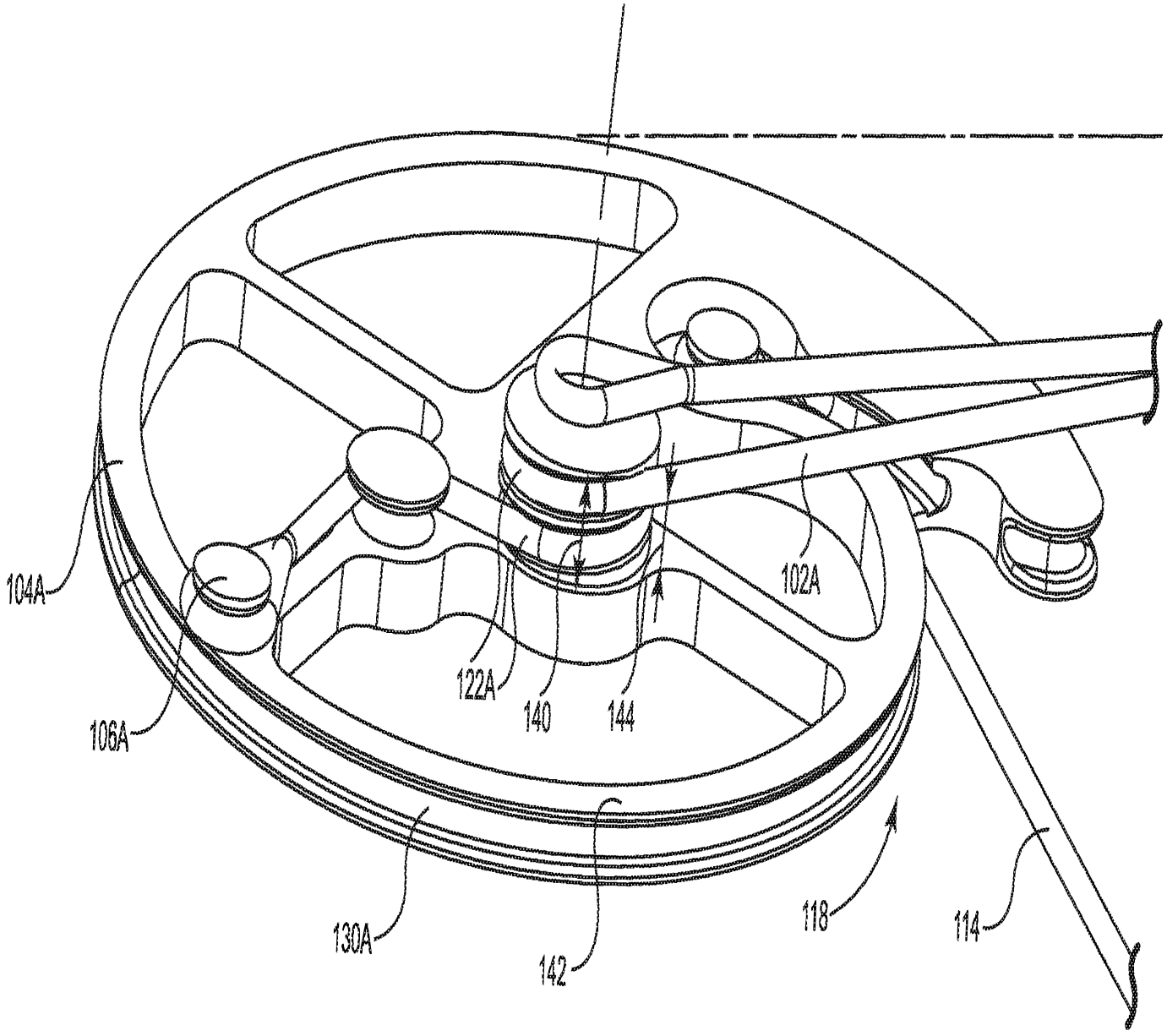


Fig. 7

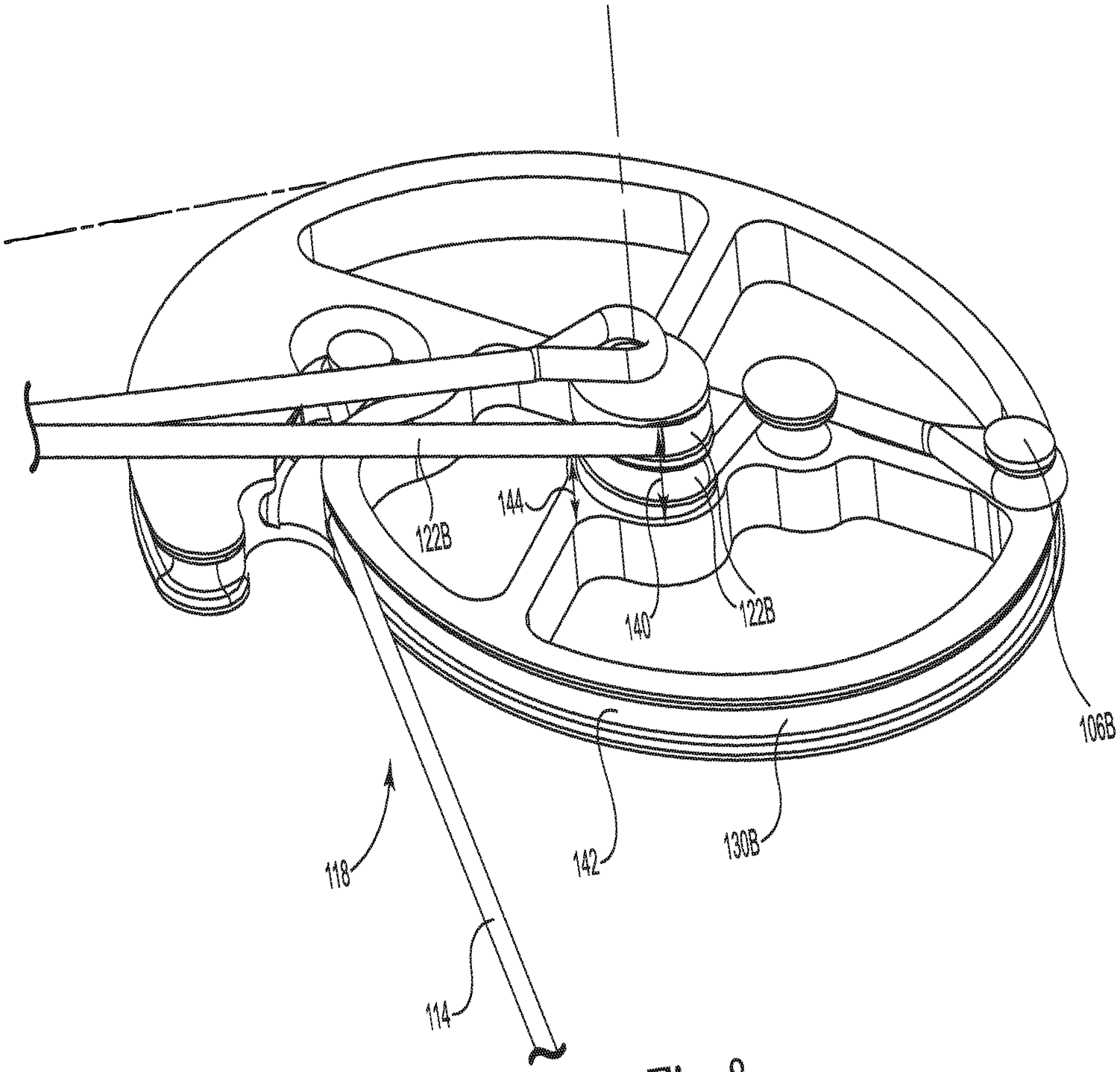


Fig. 8

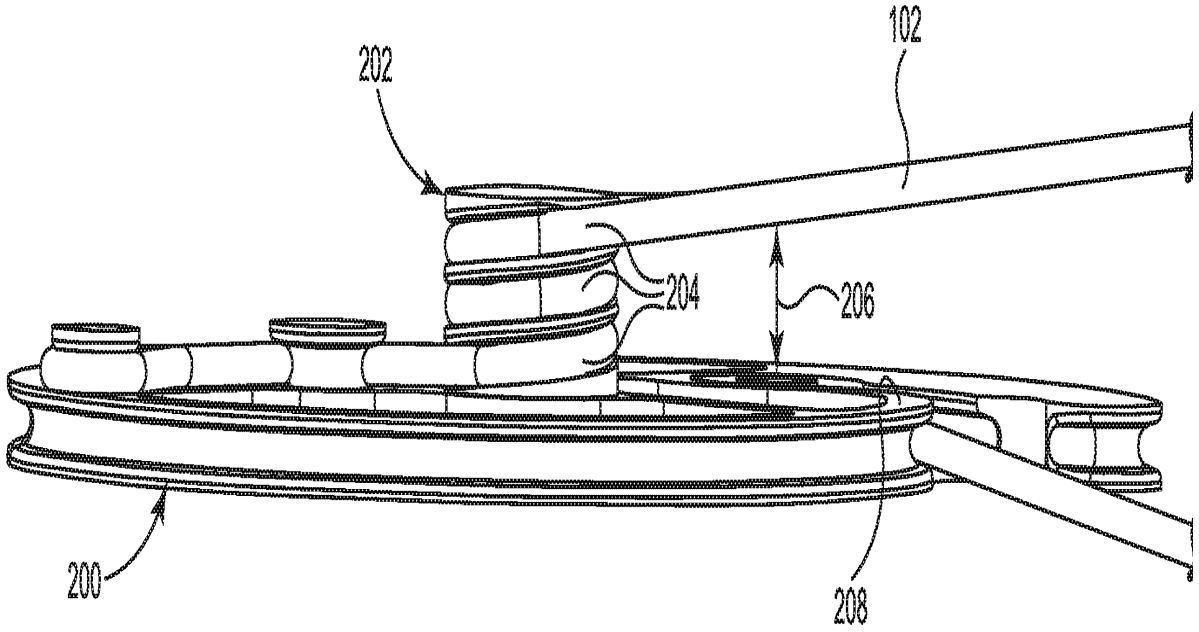


Fig. 9A

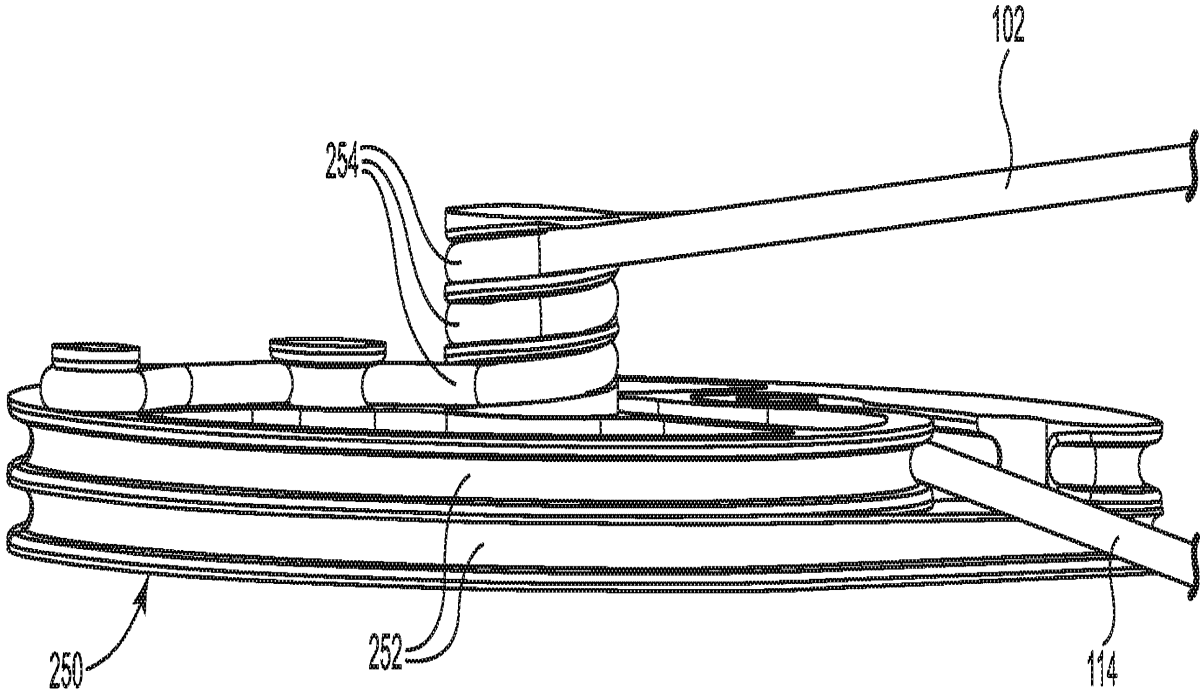


Fig. 9B

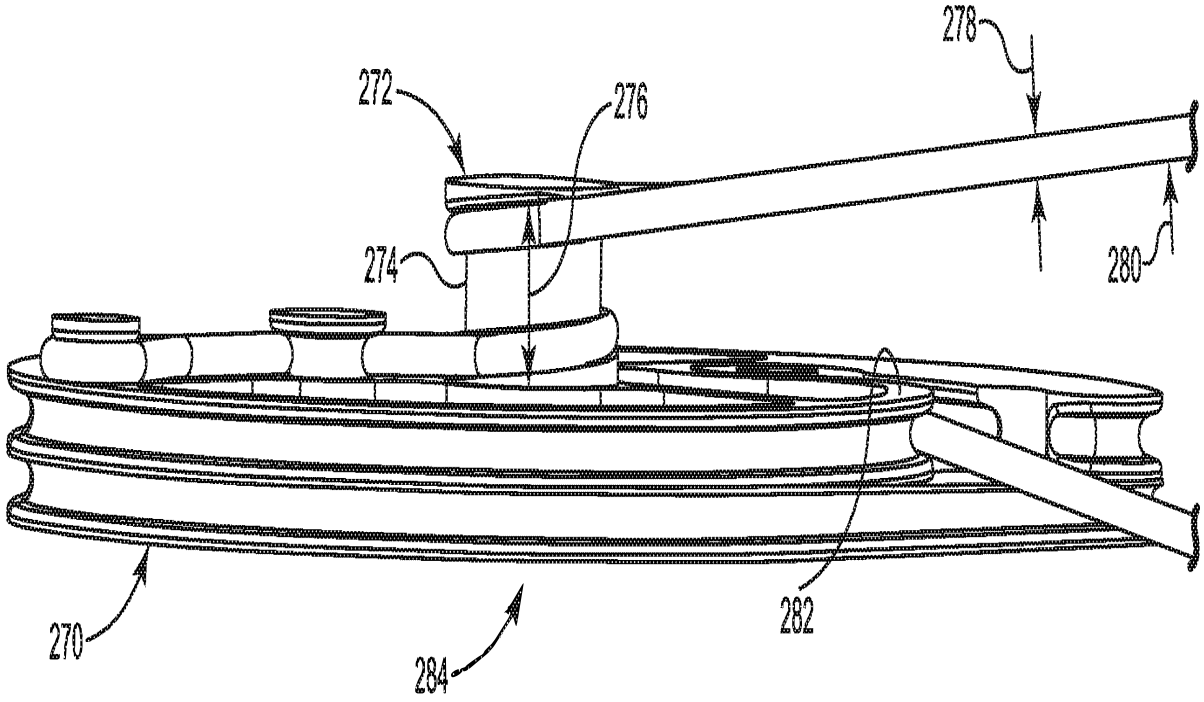


Fig. 9C

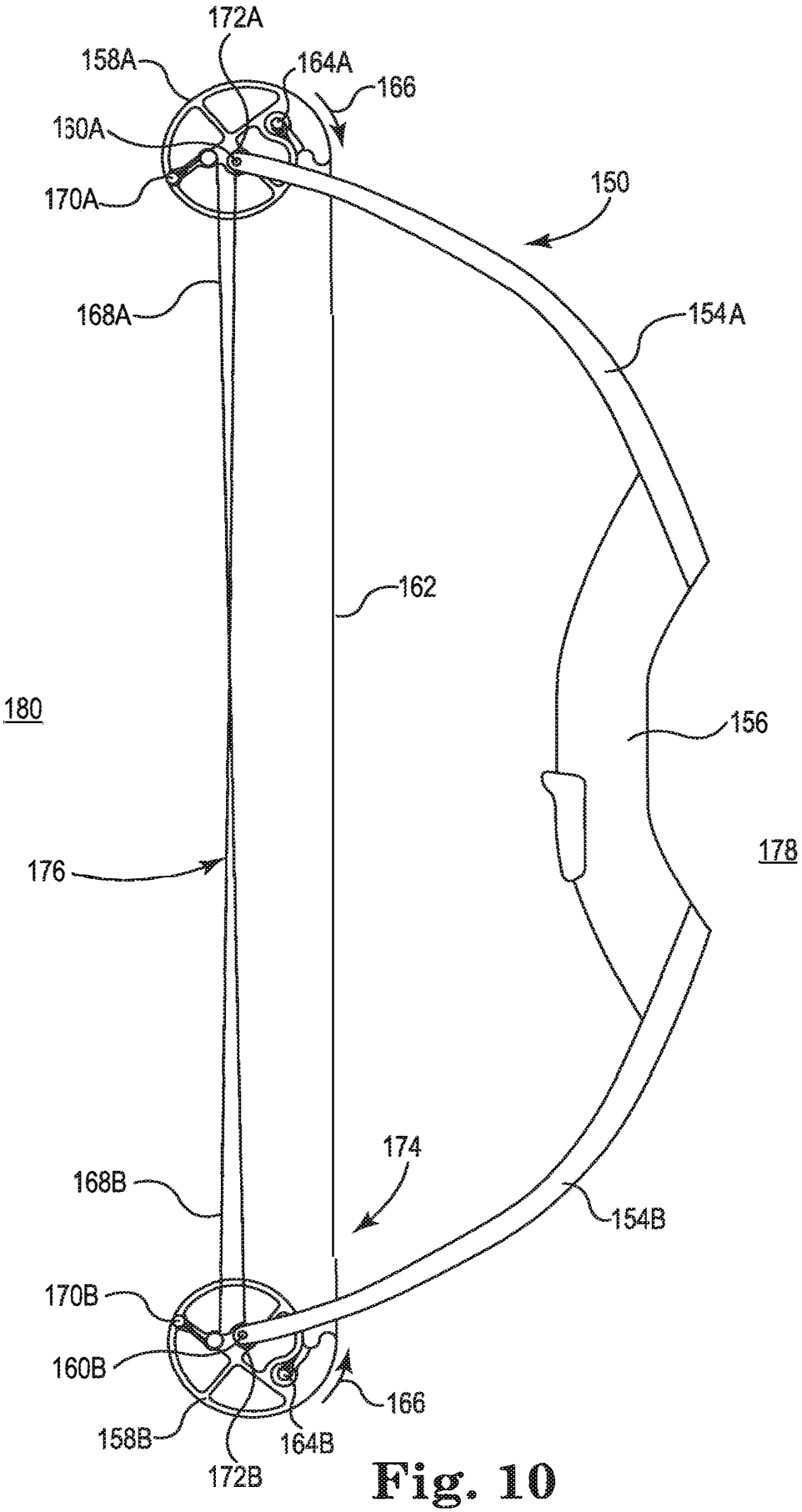

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164B
172B

Fig. 10

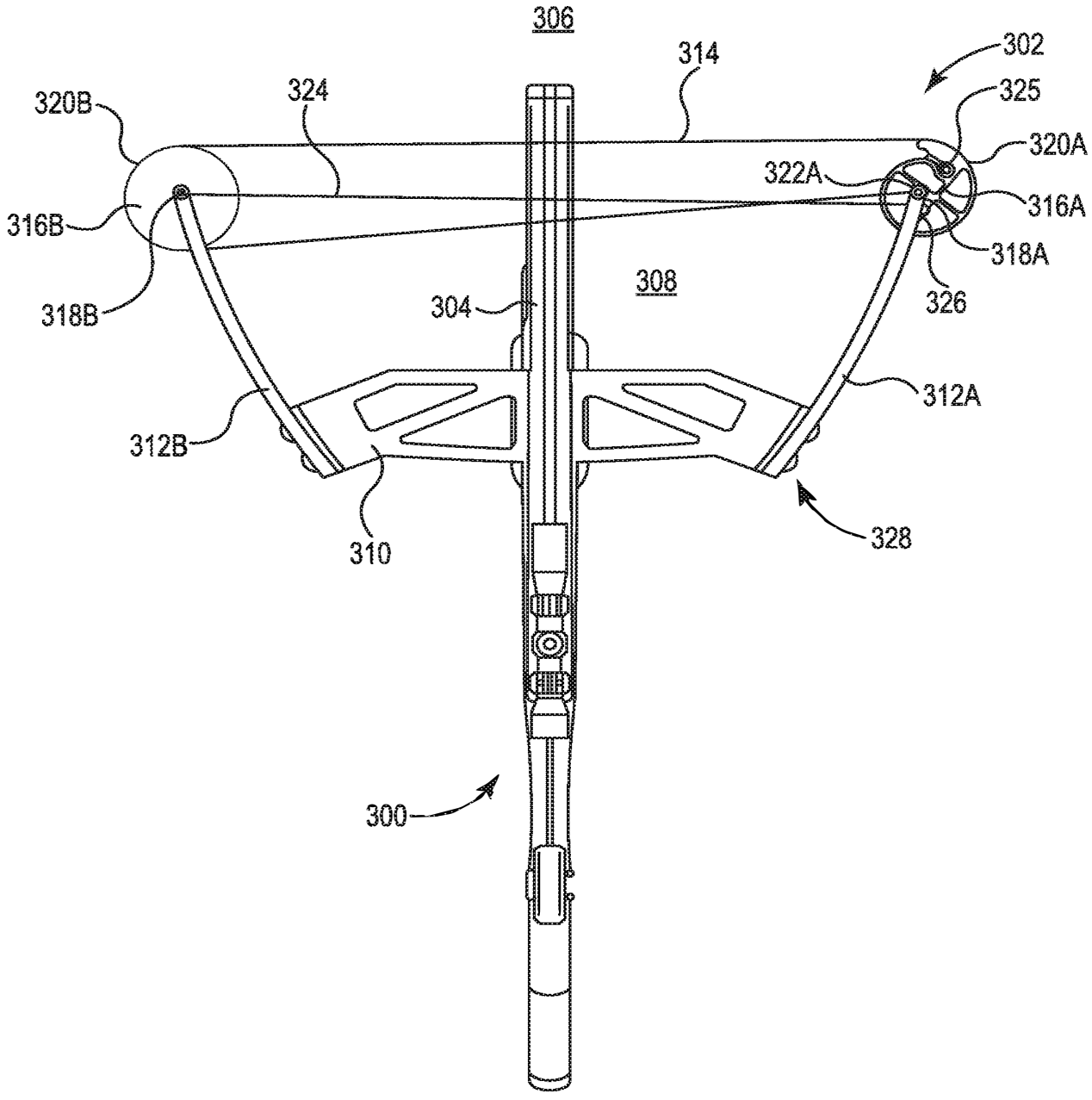

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312B
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Fig. 11

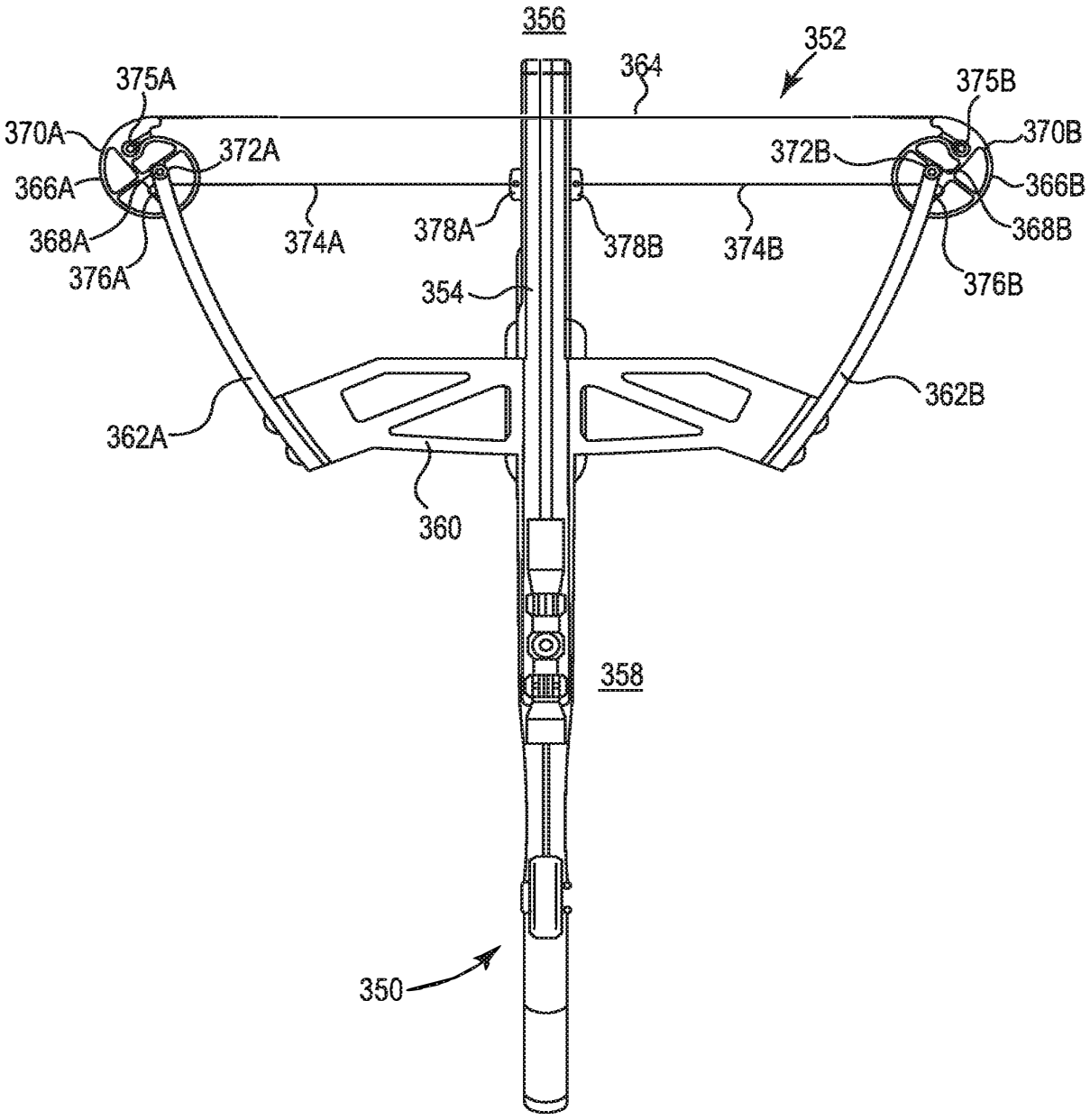

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378B
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362A
362B
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358
350

Fig. 12

Electronic Acknowledgement Receipt

EFS ID:	24510766
Application Number:	14107058
International Application Number:	
Confirmation Number:	5994
Title of Invention:	STRING GUIDE SYSTEM FOR A BOW
First Named Inventor/Applicant Name:	CRAIG THOMAS YEHLE
Customer Number:	84405
Filer:	Karl G. Schwappach
Filer Authorized By:	
Attorney Docket Number:	56169/4600
Receipt Date:	04-JAN-2016
Filing Date:	16-DEC-2013
Time Stamp:	11:51:48
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	AmendmentandResponse.pdf	2809903 a1b824cb5578f251d88887dbc2918267b3b924dd	no	10

Warnings:	
Information:	

2	Drawings-only black and white line drawings	RevisedDrawings.pdf	490393 48b1c95c3d93c8ef46bf77efd4fc186e7aac7f56	no	12

Warnings:	
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Total Files Size (in bytes):	3300296

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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/107,058	12/16/2013	CRAIG THOMAS YEHLE	56169/4600

CONFIRMATION NO. 5994

POA ACCEPTANCE LETTER

84405
Karl G Schwappach
17 south Long Lake Trail
North Oaks, MN 55127

OC00000007930397

Date Mailed: 12/14/2015

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/09/2015.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/ltaba/

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/107,058	12/16/2013	CRAIG THOMAS YEHLE	56169/4600

CONFIRMATION NO. 5994

POWER OF ATTORNEY NOTICE

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ONE UTAH CENTER
SALT LAKE CITY, UT 84111

OC000000079303892

Date Mailed: 12/14/2015

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/09/2015.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/ltaba/

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
14/107,058	12/16/2013	3711	1060	56169/4600	23	4

CONFIRMATION NO. 5994

REPLACEMENT FILING RECEIPT

84405
Karl G Schwappach
17 south Long Lake Trail
North Oaks, MN 55127

OC000000079305677

Date Mailed: 12/14/2015

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

CRAIG THOMAS YEHLE, Holmen, WI;

Applicant(s)

Ravin Crossbows, LLC, Superior, WI;

Power of Attorney: The patent practitioners associated with Customer Number 84405

Domestic Applications for which benefit is claimed - None.
A proper domestic benefit claim must be provided in an Application Data Sheet in order to constitute a claim for domestic benefit. See 37 CFR 1.76 and 1.78.

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: No

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 12/26/2013

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/107,058**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No
**** SMALL ENTITY ****
Title

STRING GUIDE SYSTEM FOR A BOW

Preliminary Class

124

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

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Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

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This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

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PTO/AIA/14 (11-13)
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CORRECTED Application Data Sheet 37 CFR 1.76	Attorney Docket Number	49398/4600
	Application Number	
Title of Invention	STRING GUIDE SYSTEM FOR A BOW	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	CRAIG	THOMAS	YEHLE	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Holmen	State/Province	WI	Country of Residence	US

Mailing Address of Inventor:

Address 1	W7987 Van Loon Lane
Address 2	

City	Holmen	State/Province	WI
Postal Code	54636	Country	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	~~32042~~ 84405		
Email Address		Add Email	Remove Email

Application Information:

Title of the Invention	STRING GUIDE SYSTEM FOR A BOW		
Attorney Docket Number	49398/4600	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	12	Suggested Figure for Publication (if any)	

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	49398/4600
	Application Number	
Title of Invention	STRING GUIDE SYSTEM FOR A BOW	

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	~~82642~~ 84405		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the application number blank.

Prior Application Status		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)
			096

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	49398/4600
	Application Number	
Title of Invention	STRING GUIDE SYSTEM FOR A BOW	

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Authorization to Permit Access:

☒ Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date o f filing this Authorization.

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

PTO/AIA/14 (11-13)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	49398/4600
	Application Number	
Title of Invention	STRING GUIDE SYSTEM FOR A BOW	

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

(●) Assignee ( ) Legal Representative under 35 U.S.C. 117 ( ) Joint Inventor

( ) Person to whom the inventor is obligated to assign. ( ) Person who shows sufficient proprietary interest

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor :

If the Applicant is an Organization check here. ☒

Organization Name	~~FIELD LOGIC, INC.~~ RAVIN CROSSBOWS, LLC		
Mailing Address Information For Applicant:			
Address 1	~~401 Main Street~~ 69 N. 28th Street #500		
Address 2			
City	Superior	**State/Province**	WI
Country	US	Postal Code	54880
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not subsitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication . An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	49398/4600
	Application Number	
Title of Invention	STRING GUIDE SYSTEM FOR A BOW	

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country[i]		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Signature	/Karl G. Schwappach/			Date (YYYY-MM-DD)	~~2013-12-18~~ 12/14/2015
First Name	Karl	Last Name	Schwappach	Registration Number	35786

Additional Signature may be generated within this form by selecting the Add button.

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Electronic Acknowledgement Receipt

EFS ID:	24352813
Application Number:	14107058
International Application Number:	
Confirmation Number:	5994
Title of Invention:	STRING GUIDE SYSTEM FOR A BOW
First Named Inventor/Applicant Name:	CRAIG THOMAS YEHLE
Customer Number:	84405
Filer:	Karl G. Schwappach
Filer Authorized By:	
Attorney Docket Number:	56169/4600
Receipt Date:	14-DEC-2015
Filing Date:	16-DEC-2013
Time Stamp:	15:35:11
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	CorrectedADS.pdf	362401 6b24dc352a9840e5fac55f712e2f9c73b5493c0b	no	5

Warnings:	
Information:	

This is not an USPTO supplied ADS fillable form

Total Files Size (in bytes):	362401

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/107,058	12/16/2013	CRAIG THOMAS YEHLE	56169/4600	5994

32642 7590 12/11/2015

STOEL RIVES LLP - SLC
201 SOUTH MAIN STREET, SUITE 1100
ONE UTAH CENTER
SALT LAKE CITY, UT 84111

EXAMINER	
KLAYMAN, AMIR ARIE	

ART UNIT	PAPER NUMBER
3711	

NOTIFICATION DATE	DELIVERY MODE
12/11/2015	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

slcpatent@stoel.com
patlaw@stoel.com

Office Action Summary	Application No. 14/107,058	Applicant(s) YEHLE, CRAIG THOMAS	
	Examiner AMIR KLAYMAN	Art Unit 3711	AIA (First Inventor to File) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *12/16/13*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-23* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-23* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *12/16/13* is/are: a)☐ accepted or b)☒ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date *1/29/15; 2/6/14.*

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

DETAILED ACTION

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Drawings

2. Figure 1-3 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

3. The following is a quotation of 35 U.S.C. 112(b):

> (b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 2 and 4 are rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention.

With respect to claim 2, it is unclear what structure applicant is attempting to claim by reciting such language. What is the biasing force? Is there any specific biasing means that form such biasing force? Is applicant referring to the inherent biasing force of the drawstring/cables that need to be overcome by drawing the bow?

Furthermore, with respect to claim 4, it is unclear how the width of the first cable take up journal is measured along the first axis. How the width of the journal is related to the axis that the cam/pulley/string guide rotates around? In other words, what width applicant is attempting to claim?

Claim Rejections - 35 USC § 102

5. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

7. Claims 1-6, 9, 11-13, 17-19 and 22 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Kempf US 7,708,001 (“Kempf”)

As per claim 1, Kempf discloses an archery bow (bow **10**)(Figs. 1-3; col. 2, lines 9-56), comprising:

a central portion (riser **12**) comprising a down-range side (from the riser towards a forward direction) and an up-range side (from cables **34** towards a backward direction) (Figs. 1 and 3);

first and second flexible limbs attached to the central portion (first and second limbs **16** and **18**, respectfully)(Figs. 1 and 3; col. 2, lines 9+);

a first string guide (cam **28**) mounted to the first bow limb (**16**) and rotatable around a first axis (point **30**), the first string guide (**28**) comprising a first draw string journal (outer track **31**) and a first power cable take-up journal (inner track **33**) both oriented generally perpendicular to the first axis (Fig. 2; col. 2, lines 9+);

a second string guide (pulley **22**) mounted to the second bow limb (**18**) and rotatable around a second axis (axle **20**), the second string guide (**22**) comprising a second draw string journal (outer track **24**) oriented generally perpendicular to the second axis (**20**)(Fig. 1; col. 2, lines 9-29);

a draw string (bowstring **32**) received in the first and second draw string journals (**31** and **26**) and secured to the archery bow (**10**) in a reverse draw configuration with the draw string adjacent the down-range side of the string guides in a release configuration (Fig. 1; col. 2, lines 30-37), wherein the draw string (**32**) translates from the down-range side toward the up-range side and unwinds between the first and second string guides to a drawn configuration (Fig. 3; col. 2, 38+); and

a first power cable (any one of cables **34**) received in the first power cable take-up journal (**33**) and secured to the archery bow (**10**)(Figs. 1-3), wherein the first power cable (**34**) wraps onto the first power cable take-up journal and translates along the first

axis away from the first draw string journal as the bow is drawn from the released configuration (Fig. 1) to the drawn configuration (Fig. 3; see also col. 2, lines 38-56, regarding drawing the bowstring and releasing it, i.e. translating along the axes of the cam and pulley, from the release configuration to the drawn configuration).

As per claim 2, Kempf discloses a biasing force that translates the first power cable away from the first draw string journal as the bow is drawn from the released configuration to the drawn configuration (Figs. 1 and 3; col. 2, lines 38+)(the biasing force to overcome the biasing of the drawstring and cables, to draw the bow from the release configuration (Fig. 1) into the draw configuration (Fig. 3)).

In addition, see the examiner discussion above, within the rejection under 35 USC 112 section, regarding the fact that the claimed invention need to be distinguished from the prior art in terms of structure limitations rather than function limitations.

As per claim 3, Kempf discloses wherein the first power cable take-up journal comprises a helical journal that translates the first power cable away from the first draw string journal as the bow is drawn from the released configuration to the drawn configuration (the helical configuration of cam **28**)(Fig. 2; col. 2, lines 20+).

As per claim 4, Kempf discloses wherein the first power cable take-up journal comprises a width measured along the first axis at least twice a width of a first power cable (Fig. 2). The examiner construed a width from the peripheral edge of track **33** to point **30** to be at least twice a width of a first power cable **34** as shown in Fig. 2.

Note: the recitation of the limitation "a width" is so broad, that any given width can read on such limitations. Accordingly, as noted above, the width from the peripheral

*edge of track **33** to point **30** is at least twice a width of a first power cable **34**.*

As per claim 5, Kempf discloses a second power cable take-up journal (inner track **26**) on the second string guide (**22**) that is oriented generally perpendicular to the second axis (**20**)(Figs. 1 and 3), the second power cable take-up journal (**26**) comprising a width measured along the second axis at least twice a width of a second power cable (**34**) (Figs. 1 and 3; as discussed above the recitation of a width can be any given width; in this case, the width from the peripheral edge of the track to the axis, of pulley **22**, is at least twice a width of the power cable **34**); and

a second power cable (the second power cable **34**, which is not the first power cable) received in the second power cable take-up journal and secured to the archery bow, wherein the second power cable wraps onto the second power cable take-up journal and translates along the second power cable take-up journal away from the second draw string journal as the bow is drawn from the released configuration (Fig. 1) to the drawn configuration (Fig. 3; see also col. 2, lines 38-56 regarding the operation of the bow from the released configuration to the drawn configuration).

As per claims 6, 13, Kempf discloses wherein the first and second power cables (**34**) do not cross over the center portion (**12**)(Figs. 1 and 3).

As per claim 9, Kempf discloses wherein the draw string (**32**) includes a first end secured to the first string guide (a first end that secured to the outer track **33**) and a second end secured to the archery bow (via outer track of pulley **22**)(Figs.1 -3; see col. 2, lines 30+, wherein the connection of the bowstring and cables is in any manner known in the art).

As per claim 11, Kempf discloses wherein the first and second draw string journals comprise helical structures (the pulley **22** can be replaced by the same cam **28** having the helical structure shown in Fig. 2) (col. 2, lines 25+).

As per claim 12, the claim's limitations are anticipated by Kempf as discussed above with respect to claims 1, 4, and 5.

As per claims 17, 18, 19, and 22, the claims' limitations of operating a bow, are anticipated by Kempf as discussed above with respect to claims 1, 3, 4, 5, and 9.

Claim Rejections - 35 USC § 103

8. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

9. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

10. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103 are summarized as follows:

1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

11. Claims 7, 8, 14-16, 20 and 21 are rejected under 35 U.S.C. 103 as being unpatentable over Kempf.

As per claims 7, 8, 15, 20, 21, Kempf is not specific regarding wherein the first and second string guides rotate more than 270 degrees when the bow is drawn from the release configuration to the drawing configuration (claims 7 and 20); and wherein the first and second string guides rotate more than 360 degrees when the bow is drawn from the release configuration to the drawing configuration (claims 8, 15 and 21).

Although Kempf is not specific regarding the rotational of his cam/pulley more than 270 degrees or more than 360 degrees, the examiner notes that it has been held that “[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation.” *In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955)*

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to form Kempf’s string guide to rotate more than 270 degrees and more than 360 degrees while the bow is drawn from a release configuration to a drawn configuration for the reason that a skilled artisan would have been motivated to form the optimum rotational means, based by routine

experimentation, and thus created the optimum drawn force to translate such force to shot an arrow therefrom.

A person skilled in the art would have concluded that such modification would have been very much in the scope of Kempf's bow, especially when Kempf design such archery bow to increase the powerstroke of the bow (col. 1, lines 42+). Thus, increasing the rotational of the cams/pulley (i.e. string guide) would ultimately increase the powerstroke of the bow.

As per claim 14, the claim's limitations are anticipated/unpatentable over Kempf as discussed above with respect to claim 1, except wherein the first string guide rotates greater than 270 degrees between the released and the drawn configuration.

However, as discussed above in this section, such modification would have been obvious based by routine experimentation.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to form Kempf's first string guide wherein the first string guide rotates greater than 270 degrees between the released and the drawn configuration for the reasons discussed above with respect to claims 7, 8, 15, 20, and 21.

As per claim 16, there is an inherent relationship/distance between the first axis (**30**) and the second axis (**20**) while the Kempf's bow is in the released configuration (Fig. 1).

Kempf is not specific regrading this distance is about 14 inches.

As discussed above, it has been held that "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." *In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955).*

One of ordinary skill in the art would have inquired, what is the difference in criticality between, for example, this distance being about 13 inches or about 13.5 inches than as claimed?

One of ordinary skilled in the art would have been able to form applicant invention without any prior knowledge of this specific distance.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to form Kempf's distance between the first and second axes to be about 14 inches for the reason that a skilled artisan would have been motivated to form the optimum distance, based by routine experimentation, between the axes while the bow is in a released configuration.

12. Claims 10 and 23 are rejected under 35 U.S.C. 103 as being unpatentable over Kempf as applied to claims 1 and 17 above, and further in view of Applicant Admitted Prior Art (AAPA).

As per claims 10, 23, Kempf is not specific wherein the power cable includes a first end secured to the first draw string guide and a second end secured to the second axis.

However, AAPA discloses the connection of power cables (**20A** and **20**) to axes (axles **28A** and **28**)(Figs. 1-3; page 1, 4th paragraph).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to form Kempf's string/cables connection means wherein the power cable includes a first end secured to the first draw string guide and a second end secured to the second axis as taught by AAPA for the reason that a skilled artisan would have been motivated by Kempf's suggestion that any known manner in the art is suitable for connecting the drawstring and the cables to his bow (col. 2, lines 30-37).

Furthermore, the connection means between the drawstring and the cables to the cams/pulley and to the bow, does not change the nature of the bow and/or the nature of the string/cables to be drawn and thus shooting an arrow therefrom.

Thus, using AAPA's connection means of the string/cables to the bow (via the axles) within Kempf's archery bow would have been nothing more than providing a simple substitution for one known element (Kempf's string/ cables connection means) for another (AAPA's string/cables connection means).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AMIR KLAYMAN whose telephone number is (571)270-7131. The examiner can normally be reached on Mo. - Fr. (7:30AM-5:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MELBA BUMGARNER can be reached on (571)272-4709. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A. K./
Examiner, Art Unit 3711 12/3/15

/Melba Bumgarner/
Supervisory Patent Examiner, Art Unit 3711

Notice of References Cited	Application/Control No. 14/107,058	Applicant(s)/Patent Under Reexamination YEHLE, CRAIG THOMAS	
	Examiner AMIR KLAYMAN	Art Unit 3711	Page 1 of 1

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
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	F	US-				
	G	US-				
	H	US-				
	I	US-				
	J	US-				
	K	US-				
	L	US-				
	M	US-				

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
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	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14107058	YEHLE, CRAIG THOMAS
	Examiner	Art Unit
	AMIR KLAYMAN	3711

CPC- SEARCHED		
Symbol	Date	Examiner
F41B5/10; 105; 1403; 123; 1484; 00; 12	12/3/15	/AK/

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor search, text search, PLUS search, NPL search.	12/3/15	/AK/

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

Modification of Forms PTO-1449 and PTO/SB/08

U.S. PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT

(Use as many sheets as necessary)

Application No.	14/107,058
Filing Date	12-16-2013
First Named Inventor	YEHLE, CRAIG THOMAS
Art Unit	3711
Examiner Name	
Attorney Docket No.	49398/4600

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Examiner Initials*	Cite No.	Document Number Number-Kind Code (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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EXAMINER SIGNATURE	DATE CONSIDERED
/Amir Klayman/	12/03/2015

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Modification of Forms PTO-1449 and PTO/SB/08

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INFORMATION DISCLOSURE STATEMENT

(Use as many sheets as necessary)

Application No.	14/107,058
Filing Date	12-16-2013
First Named Inventor	YEHLE, CRAIG THOMAS
Art Unit	3711
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Art Unit	3711
Examiner Name	
Attorney Docket No.	49398/4600

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPS), title of the article (when appropriate), title of the item (book, magazine, journal, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. For web pages and online documents, include author or site publisher (in CAPS), title of document, web page address (URL), date published (if known), "visited" date, pages.	T[3] ✓

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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S3	5	(("7305979") or ("7836871") or ("7328693")).PN. or ((13/799518) or (14/071723)).APP.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/12/01 13:03
S4	663	(124/25.6).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/12/01 13:05
S5	663	S4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/12/01 13:09
S6	2108	((F41B5/10 OR F41B5/105 OR F41B5/1403 OR F41B5/123 OR F41B5/1484 OR F41B5/00 OR F41B5/12).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2015/12/01 13:10

			IBM_TDB			
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S9	45484	"270" near5 degrees	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/01 14:30
S10	168160	"360" near5 degrees	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/01 14:31
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S12	1	S11 and S6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/01 14:31
S13	145	S11 and (bow or crossbow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/12/01 14:32
S14	1	("6267108").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/12/01 14:49
S15	1	(14/107058).APP.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/12/01 15:04
S16	1	("7305979").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/12/01 15:08
S17	2	(("7708001") or ("20110030666")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/12/02 13:47

EAST Search History (Interference)

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14/107,058	12/16/2013	124	3711	56169/4600

APPLICANTS
FIELD LOGIC, INC., Superior, WI;

INVENTORS
CRAIG THOMAS YEHLE, Holmen, WI;

**** CONTINUING DATA ***************************

**** FOREIGN APPLICATIONS ***************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED **** ** SMALL ENTITY **
12/26/2013

Foreign Priority claimed ☐ Yes ☑ No 35 USC 119(a-d) conditions met ☐ Yes ☑ No Verified and Acknowledged /Amir Klayman/ Examiner's Signature	☐ Met after Allowance Initials	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
		WI	12	23	4

ADDRESS

STOEL RIVES LLP - SLC
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SALT LAKE CITY, UT 84111
UNITED STATES

TITLE

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FILING FEE RECEIVED		
1060	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

Receipt date: 01/29/2015 14107058 - GAU: 3711 Sheet 1 of 1

Modification of Forms PTO-1449 and PTO/SB/08

U.S. PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT

(Use as many sheets as necessary)

Application No.	14/107,058
Filing Date	12-16-2013
First Named Inventor	Craig Thomas Yehle
Art Unit	3711
Examiner Name	KLAYMAN, AMIR ARIE
Attorney Docket No.	49398/4600

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	Document Number Number-Kind Code (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	US-8,651,095	02-18-2014	Islas	
	2.	US-8,899,217	12-02-2014	Islas	
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document Number Country Code[1]-Number[2]-Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[3] ✓

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPS), title of the article (when appropriate), title of the item (book, magazine, journal, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. For web pages and online documents, include author or site publisher (in CAPS), title of document, web page address (URL), date published (if known), "visited" date, pages.	T[3] ✓

EXAMINER SIGNATURE	DATE CONSIDERED
/Amir Klayman/	12/03/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1]Enter Office that issued the document, by two-letter code (WIPO Std. ST.3). [2]For Japanese patent documents, the year of the reign of the Emperor must precede the serial number of the document. [3]Place a check mark here if English language translation is attached or "Abs." if English language abstract is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.K./ 124

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14107058	YEHLE, CRAIG THOMAS
	Examiner	**Art Unit**
	AMIR KLAYMAN	3711

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	12/03/2015								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
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	17	✓								
	18	✓								
	19	✓								
	20	✓								
	21	✓								
	22	✓								
	23	✓								

PTO/AIA/80 (07-12)
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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

☒ Practitioners associated with Customer Number: 84405

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

☒ The address associated with Customer Number: 84405

OR

☐

Firm or Individual Name			
Address			
City		State	Zip
Country			
Telephone		Email	

Assignee Name and Address: Ravin Crossbows, LLC
69 N. 28th Street, Suite 500
Superior, WI 54880 USA

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be Filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of The practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	December 7, 2015
Name	Mike Weinkauf	Telephone	(218) 590-9679
Title	Vice President - Ravin Crossbows, LLC		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Acknowledgement Receipt

EFS ID:	24307564
Application Number:	14107058
International Application Number:	
Confirmation Number:	5994
Title of Invention:	STRING GUIDE SYSTEM FOR A BOW
First Named Inventor/Applicant Name:	CRAIG THOMAS YEHLE
Customer Number:	32642
Filer:	Karl G. Schwappach
Filer Authorized By:	
Attorney Docket Number:	56169/4600
Receipt Date:	09-DEC-2015
Filing Date:	16-DEC-2013
Time Stamp:	13:33:25
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	CorrectedADS.pdf	449669 59d7cd7a60bb596d047aae189f642e124bb 44639	no	7

Warnings:	
Information:	

This is not an USPTO supplied ADS fillable form					
2	Power of Attorney	PowerOfAttorney12915.pdf	500453 b2ec50c18b7609ddfa02638bd2b9cfdc38c8ac3f	no	1
Warnings:					
Information:					
			Total Files Size (in bytes):	950122	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/AIA/14 (03-13)
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CORRECTED Application Data Sheet 37 CFR 1.76	Attorney Docket Number	49398/4400
	Application Number	
Title of Invention	DE-COCKING MECHANISM FOR A BOW	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Larry		Pulkrabek	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Osceola	State/Province	IA	Country of Residence	US

Mailing Address of Inventor:

Address 1	1342 Starline Ave.
Address 2	

City	Osceola	State/Province	IA
Postal Code	50213	Country	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Jay		Engstrom	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Port Wing	State/Province	WI	Country of Residence	US

Mailing Address of Inventor:

Address 1	7460 Quarry Shores Rd.
Address 2	

City	Port Wing	State/Province	WI
Postal Code	54865	Country	US

Inventor 3 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Craig	Thomas	Yehle	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	49398/4400
	Application Number	
Title of Invention	DE-COCKING MECHANISM FOR A BOW	

City	Holmen	State/Province	WI	Country of Residence	US

Mailing Address of Inventor:

Address 1	W7987 Van Loon Lane		
Address 2			
City	Holmen	State/Province	WI
Postal Code	54636	Country	US

Inventor 4 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Aaron		Pellett	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	Alborn	State/Province	MN	Country of Residence	US

Mailing Address of Inventor:

Address 1	8922 W. Shipley Rd.		
Address 2			
City	Alborn	State/Province	MN
Postal Code	55702	Country	US

Inventor 5 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Matthew	P.	Haas	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	Duluth	State/Province	MN	Country of Residence	US

Mailing Address of Inventor:

Address 1	2315 W. Arrowhead Rd.		
Address 2			
City	Duluth	State/Province	MN
Postal Code	55811	Country	US

Inventor 6 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Fred	H.	Hunt	

Residence Information (Select One) (•) US Residency ( ) Non US Residency ( ) Active US Military Service

City	Duluth	State/Province	MN	Country of Residence	US

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	49398/4400
	Application Number	
Title of Invention	DE-COCKING MECHANISM FOR A BOW	

Mailing Address of Inventor:

Address 1	3016 Greysolon Rd.		
Address 2			
City	Duluth	**State/Province**	MN
Postal Code	55812	**Country**	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	~~32642~~ 84405.		
Email Address		Add Email	Remove Email

Application Information:

Title of the Invention	DE-COCKING MECHANISM FOR A BOW		
Attorney Docket Number	49398/4400	**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	35	**Suggested Figure for Publication (if any)**	

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	~~32642~~ 84405		

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	49398/4400
	Application Number	
Title of Invention	DE-COCKING MECHANISM FOR A BOW	

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	non provisional of	61820792	2013-05-08
Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation in part of	13799518	2013-03-13

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	49398/4400
	Application Number	
Title of Invention	DE-COCKING MECHANISM FOR A BOW	

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Authorization to Permit Access:

☒ Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date o f filing this Authorization.

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	49398/4400
	Application Number	
Title of Invention	DE-COCKING MECHANISM FOR A BOW	

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

◉ Assignee	○ Legal Representative under 35 U.S.C. 117	○ Joint Inventor
○ Person to whom the inventor is obligated to assign.	○ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor :

If the Applicant is an Organization check here. ☒

Organization Name ~~Field Logic, Inc.~~ RAVIN CROSSBOWS, LLC

Mailing Address Information For Applicant:

Address 1	~~101 Main Street~~ 69 N. 28th Street #500		
Address 2			
City	Superior	**State/Province**	WI
Country	US	Postal Code	54880
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not subsitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication . An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

If the Assignee is an Organization check here. ☐

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	49398/4400
	Application Number	
Title of Invention	DE-COCKING MECHANISM FOR A BOW	

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Non-Applicant Assignee:			
Address 1			
Address 2			
City		**State/Province**	
Country		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee Data may be generated within this form by selecting the Add button.

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Signature	/Karl G. Schwappach/			Date (YYYY-MM-DD)	~~2015-11-05~~ 12/9/2015
First Name	Karl	Last Name	Schwappach	Registration Number	35786

Additional Signature may be generated within this form by selecting the Add button.

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/107,058	12/16/2013	CRAIG THOMAS YEHLE	56169/4600

CONFIRMATION NO. 5994

32642
STOEL RIVES LLP - SLC
201 SOUTH MAIN STREET, SUITE 1100
ONE UTAH CENTER
SALT LAKE CITY, UT 84111

MISCELLANEOUS NOTICE



Date Mailed: 12/04/2015

A communication which cannot be delivered in electronic form has been mailed to the applicant.

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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/107,058	12/16/2013	CRAIG THOMAS YEHLE	56169/4600

CONFIRMATION NO. 5994

OC000000079078402

32642
STOEL RIVES LLP - SLC
201 SOUTH MAIN STREET, SUITE 1100
ONE UTAH CENTER
SALT LAKE CITY, UT 84111

CC: 84405
KARL G SCHWAPPACH
17 SOUTH LONG LAKE TRAIL
NORTH OAKS, MN 55127

DATE MAILED: 12-03-2015

DENIAL OF REQUEST FOR POWER OF ATTORNEY

The request for Power of Attorney filed on **11/25/2015** is acknowledged. However, the request cannot grant at this time for the reason stated below.

- ☐ The Power of Attorney you provided did not comply with the new Power of Attorney rules that became effective on June 25, 2004. See 37 CFR 1.32.
- ☐ The revocation is not signed by the applicant, the assignee of the entire interest, or one particular principal attorney having the authority to revoke.
- ☐ The Power of Attorney is from an assignee and the Certificate required by 37 CFR 3.73(c) has not been received.
- ☐ The person signing for the assignee has omitted their empowerment to sign on behalf of the assignee.
- ☐ The inventor(s) is without authority to appoint attorneys since the assignee has intervened as provided by 37 CFR 3.71.
- ☐ The person(s) appointed in the Power of Attorney is not registered to practice before the U.S. Patent and Trademark Office.
- ☐ Only one Customer Number can be designated for the Power of Attorney in an application. The Customer Number that was captured is the first Customer Number provided on the Power of Attorney document.
- ☐ A request under 37 CFR 1.48 to add an inventor was granted in this application, however, no power of attorney consistent with the power of attorney granted by the originally named inventive entity has been

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UNITED STATES DEPARTMENT OF COMMERCE
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Alexandria, Virginia 22313-1450
www.uspto.gov

received. Thus, the addition of the inventor has resulted in the loss of power of attorney in the application. See 37 CFR 1.32(e).

☑ The power of attorney has not been accepted because the party who is giving power of attorney has not been identified. Power of attorney may only be signed by the applicant for patent (37 CFR 1.42) or the patent owner. A patent owner who was not the applicant must appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. See 37 CFR 1.32(b)(4).

☐ The power of attorney from the inventors has not been accepted because it is a copy from a prior national application for which benefit is claimed and the continuing application names an inventor who was not named as an inventor in the prior application.

☐ The power of attorney from the inventors has not been accepted because the power of attorney must be signed by the applicant for patent. See 37 CFR 1.32(b)(4).

☑ Any request to correct or update the name of the applicant must include an application data sheet (ADS) in compliance with 37 CFR 1.76 specifying the correct or updated name of the applicant in the applicant information section. Any request to change the applicant after an original applicant has been specified under 37 CFR 1.46(b) must include a new ADS in compliance with 37 CFR 1.76 specifying the applicant in the applicant information section and comply with 37 CFR 3.71 and 3.73. See 37 CFR 1.46(c).

Any inquiries regarding this notice should be directed to the Application Assistance Unit at 571-272-4200.

Application Assistance Unit
571-272-4200

PLUS Search Results for S/N 14107058, Searched Tue Dec 01 14:38:56 EST 2015

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

20150168093 86
4343286 55
4774927 77
7971582 77
7971582 77
20090000607 77
20150114379 77
4748962 75
7938109 65
8069848 65
7938109 65
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4741320 65
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5150699 65
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8919333 60
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6659096 58
4715355 55
3981290 55
4122821 55

PLUS Search Results for S/N 14107058, Searched Tue Dec 01 14:38:57 EST 2015

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

20150168093 99
5678529 71
5505185 84
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4246883 84
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4774927 71
4803971 71
4957093 71
5495843 71

PTO/AIA/80 (07-12)
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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

☒ Practitioners associated with Customer Number: 84405

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

☒ The address associated with Customer Number: 84405

OR

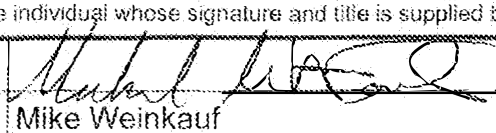
☐	Firm or Individual Name		
	Address		
	City	State	Zip
	Country		
	Telephone	Email	

Assignee Name and Address: Ravin Crossbows, LLC
69 N. 28th Street, Suite 500
Superior, WI 54880 USA

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be Filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of The practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	November 25, 2015
Name	Mike Weinkauf	Telephone	(218) 590-9679
Title	Vice President		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	24196808
Application Number:	14107058
International Application Number:	
Confirmation Number:	5994
Title of Invention:	STRING GUIDE SYSTEM FOR A BOW
First Named Inventor/Applicant Name:	CRAIG THOMAS YEHLE
Customer Number:	32642
Filer:	Karl G. Schwappach
Filer Authorized By:	
Attorney Docket Number:	56169/4600
Receipt Date:	25-NOV-2015
Filing Date:	16-DEC-2013
Time Stamp:	15:56:56
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	PowerofAttorney.pdf	1037667 22be43bb407398a4be56bb764460818f956523c4	no	2

Warnings:	
Information:	

Total Files Size (in bytes):	1037667

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/107,058	12/16/2013	CRAIG THOMAS YEHLE	56169/4600

CONFIRMATION NO. 5994

IMPROPER CFR REQUEST

32642
STOEL RIVES LLP - SLC
201 SOUTH MAIN STREET, SUITE 1100
ONE UTAH CENTER
SALT LAKE CITY, UT 84111

OC00000078778785

Date Mailed: 11/23/2015

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Power of Attorney, Claims, Fees, System Limitations, and Miscellaneous

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

- Any request to correct or update the name of the applicant must include an application data sheet (ADS) in compliance with 37 CFR 1.76 specifying the correct or updated name of the applicant in the applicant information section. Any request to change the applicant after an original applicant has been specified under 37 CFR 1.46(b) must include a new ADS in compliance with 37 CFR 1.76 specifying the applicant in the applicant information section and comply with 37 CFR 3.71 and 3.73. See 37 CFR 1.46(c).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/yteferra/

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/107,058	12/16/2013	CRAIG THOMAS YEHLE	56169/4600

CONFIRMATION NO. 5994

32642
STOEL RIVES LLP - SLC
201 SOUTH MAIN STREET, SUITE 1100
ONE UTAH CENTER
SALT LAKE CITY, UT 84111

MISCELLANEOUS NOTICE

OC000000078778429

Date Mailed: 11/23/2015

A communication which cannot be delivered in electronic form has been mailed to the applicant.

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Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/107,058	12/16/2013	CRAIG THOMAS YEHLE	56169/4600

CONFIRMATION NO. 5994

OC000000078778429

32642
STOEL RIVES LLP - SLC
201 SOUTH MAIN STREET, SUITE 1100
ONE UTAH CENTER
SALT LAKE CITY, UT 84111

Cc: KARL G SCHWAPPACH
17 SOUTH LONG LAKE TRAIL
NORTH OAKS, MN 55127

Date Mailed: 11/20/2015

DENIAL OF REQUEST FOR POWER OF ATTORNEY

The request for Power of Attorney filed 11/11/2015 is acknowledged. However, the request cannot be granted at this time for the reason stated below.

- ☐ The Power of Attorney you provided did not comply with the new Power of Attorney rules that became effective on June 25, 2004. See 37 CFR 1.32.
- ☐ The revocation is not signed by the applicant, the assignee of the entire interest, or one particular principal attorney having the authority to revoke.
- ☐ The Power of Attorney is from an assignee and the Certificate required by 37 CFR 3.73(c) has not been received.
- ☐ The person signing for the assignee has omitted their empowerment to sign on behalf of the assignee.
- ☐ The inventor(s) is without authority to appoint attorneys since the assignee has intervened as provided by 37 CFR 3.71.
- ☐ The signature(s) of _____ a co-inventor in this application, has been omitted. The Power of Attorney will be entered upon receipt of confirmation signed by said co-inventor(s).
- ☐ The person(s) appointed in the Power of Attorney is not registered to practice before the U.S. Patent and Trademark Office.
- ☐ Only one Customer Number can be designated for the Power of Attorney in an application. The Customer Number that was captured is the first Customer Number provided on the Power of Attorney document.
- ☐ A request under 37 CFR 1.48 to add an inventor was granted in this application, however, no power of attorney consistent with the power of attorney granted by the originally named inventive entity has

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www.uspto.gov

been received. Thus, the addition of the inventor has resulted in the loss of power of attorney in the application. See 37 CFR 1.32(e).

☑ The power of attorney has not been accepted because the party who is giving power of attorney has not been identified. Power of attorney may only be signed by the applicant for patent (37 CFR 1.42) or the patent owner. A patent owner who was not the applicant must appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. See 37 CFR 1.32(b)(4).

☐ The power of attorney from the inventors has not been accepted because it is a copy from a prior national application for which benefit is claimed and the continuing application names an inventor who was not named as an inventor in the prior application.

☐ The power of attorney from the inventors has not been accepted because the power of attorney must be signed by the applicant for patent. See 37 CFR 1.32(b)(4).

☑ Any request to correct or update the name of the applicant must include an application data sheet (ADS) in compliance with 37 CFR 1.76 specifying the correct or updated name of the applicant in the applicant information section. Any request to change the applicant after an original applicant has been specified under 37 CFR 1.46(b) must include a new ADS in compliance with 37 CFR 1.76 specifying the applicant in the applicant information section and comply with 37 CFR 3.71 and 3.73. See 37 CFR 1.46(c).

Any inquiries regarding this notice should be directed to the Application Assistance Unit at 571-272-4200.

Application Assistance Unit
571-272-4200

PTO/AIA/82 (07-12)
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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

☒ Practitioners associated with Customer Number: 84405

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

☒ The address associated with Customer Number: 84405

OR

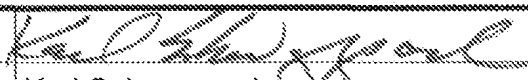
☐	Firm or Individual Name			
	Address			
	City		State	Zip
	Country			
	Telephone		Email	

Assignee Name and Address: Ravin Crossbows, LLC
69 N. 28th Street. Suite 500
Superior, WI 54880 USA

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be Filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of The practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	November 11, 2015
Name	Karl Schwappach	Telephone	612 240 9505
Title	General Counsel		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Ravin Crossbows, LLC

Application No./Patent No.: 14/107,058 Filed/Issue Date: 12/16/2013

Titled: String Guide for a Bow

Ravin Crossbows, LLC, a Limited Liability Company

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☑ The assignee of the entire right, title, and interest.

2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):

   ☐ The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

   ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

B. ☑ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Field Logic, Inc To: Ravin Crossbows, LLC

   The document was recorded in the United States Patent and Trademark Office at

   Reel 035130, Frame 0566, or for which a copy thereof is attached.

2. From: _____ To: _____

   The document was recorded in the United States Patent and Trademark Office at

   Reel _____, Frame _____, or for which a copy thereof is attached.

This collection of information is required by37 CFR3.73(b). The information is required toobtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentialityis governed by35 U.S.C. 122and 37 CFR1.11 and1.14. Thiscollection is estimated to take 12 minutes to complete, including gathering, preparing, and submittingthe completed application form to the USPTO.Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent tothe Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.**SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☑ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Karl Schwappach/	November 11, 2015
Signature	Date
Karl Schwappach	35,786
Printed or Typed Name	Title or Registration Number

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that yoube given certain informationin connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, pleasebe advised that: (1) the general authority forthe collection of thisinformation is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and(3) the principal purpose forwhich the information isused by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent applicationor patent. If you do not furnish the requested information,the U.S. Patent and Trademark Office may not be able to process and/or examineyour submission,which may result in termination of proceedings or abandonment of the applicationor expiration of the patent.

The informationprovided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the informationin order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an InternationalApplication filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, arecord may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from thissystem of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	24050513
Application Number:	14107058
International Application Number:	
Confirmation Number:	5994
Title of Invention:	STRING GUIDE SYSTEM FOR A BOW
First Named Inventor/Applicant Name:	CRAIG THOMAS YEHLE
Customer Number:	32642
Filer:	Karl G. Schwappach
Filer Authorized By:	
Attorney Docket Number:	56169/4600
Receipt Date:	11-NOV-2015
Filing Date:	16-DEC-2013
Time Stamp:	14:05:14
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	PowerofAttorney.pdf	1055642 21b262d3b06921a925ac9834a76c4f52ac843c7b	no	1

Warnings:	
Information:	

2	Assignee showing of ownership per 37 CFR 3.73	14107058.pdf	119417 1a653c597da120bf4416eeb00c34380bafa4ce91	no	3

Warnings:	
Information:	
Total Files Size (in bytes):	1175059

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/107,058	12/16/2013	CRAIG THOMAS YEHLE	56169/4600

CONFIRMATION NO. 5994

32642
STOEL RIVES LLP - SLC
201 SOUTH MAIN STREET, SUITE 1100
ONE UTAH CENTER
SALT LAKE CITY, UT 84111

PUBLICATION NOTICE

OC000000075810239

Title:STRING GUIDE SYSTEM FOR A BOW

Publication No.US-2015-0168093-A1
Publication Date:06/18/2015

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently http://pair.uspto.gov/. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Managment, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Craig Thomas Yehle Confirmation No. 5994

Application No. 14/107,058

Filed: 12-16-2013

For: **STRING GUIDE SYSTEM FOR A BOW**

Group Art Unit: 3711

Examiner: KLAYMAN, AMIR ARIE

Attorney Docket No. 49398/4600

Date: January 29, 2015

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

TO THE COMMISSIONER FOR PATENTS:

1. Documents listed on the accompanying Form PTO-1449 (or equivalent) are presented for the Examiner's consideration.

☒ Copies of listed U.S. patents and U.S. patent application publications are not required for submission. (37 C.F.R. § 1.98(a)(2)(ii))

☐ Copies of listed foreign patent documents and/or non-patent literature are enclosed. (37 C.F.R. § 1.98(a)(2))

☐ Copies of the documents listed at (sheet/cite no.) _____ of the attached Form PTO-1449 (or equivalent) are omitted because (1) they are already of record in U.S. Patent Application No. _____, filed _____, on which this application relies for an earlier filing date under 35 U.S.C. § 120; and (2) any information disclosure statement filed in the prosecution of Application No. _____, complies with 37 CFR §§ 1.98(a) through (c). (37 C.F.R. § 1.98(d))

☐ A copy of copending U.S. Patent Application No. _____, filed _____, for _____, listed at (sheet/cite no.) _____ of the attached Form PTO-1449 (or equivalent), ☐ is enclosed / ☐ is omitted. (Copy not required if available via IFW. 1287 OG 162 (Oct. 19, 2004).).

2. This information disclosure statement is being submitted (check box a., b., or c.):

a. ☒ Within three months of the filing date of a national application or entry of the national stage in an international application; or before the mailing of a first Office action on the merits; or before the mailing of a first Office

action after the filing of a request for continued examination under 37 CFR 1.114. (No statement under 37 CFR 1.97(e) is required.); or

b. ☐ After the period set forth in paragraph 2a, but before the mailing date of either a final action, a notice of allowance, or an action that otherwise closes prosecution in the application. (Check box i. or ii.)

i. ☐ The information disclosure statement submission fee set forth in 37 CFR 1.17(p) is paid herewith, or

ii. ☐ A statement specified by 37 CFR 1.97(e) is set forth below; or

c. ☐ After the mailing date of a final action or notice of allowance and on or before payment of the issue fee. A statement specified by 37 CFR 1.97(e) is set forth below. Enclosed is the information disclosure statement processing fee set forth in 37 CFR 1.17(p).

3. Fee Payment

a. ☐ A check in the amount of $_____ is enclosed.

b. ☐ Payment by credit card.

c. ☐ Please charge our Deposit Account No. 50-2375 in the amount of $_____.

d. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required in connection with filing of these papers, or credit overpayment to Deposit Account No. 50-2375.

4. If a statement specified by 37 CFR 1.97(e) is required, the attorney or agent signing below hereby states that (check box a. or b.):

a. ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement

☐ Such communication was not received by any individual designated in 37 CFR 1.56(c) more than thirty days prior to the filing of this information disclosure statement. (37 C.F.R. § 1.704(d))

b. ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any

individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this information disclosure statement.

5. ☐ A concise explanation of the relevance of each document not in the English language and/or selected documents in the English language is set forth below.

Respectfully submitted,

By /Karl G. Schwappach/
Karl G. Schwappach
Registration No. 35,786

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Salt Lake City, UT 84111-4904
Telephone: (801) 328-3131
Facsimile: (801) 578-6999

Modification of Forms PTO-1449 and PTO/SB/08

U.S. PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT

(Use as many sheets as necessary)

Application No.	14/107,058
Filing Date	12-16-2013
First Named Inventor	Craig Thomas Yehle
Art Unit	3711
Examiner Name	KLAYMAN, AMIR ARIE
Attorney Docket No.	49398/4600

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	Document Number Number-Kind Code (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	US-8,651,095	02-18-2014	Islas	
	2.	US-8,899,217	12-02-2014	Islas	
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document Number Country Code[1]-Number[2]-Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[3] ✓

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPS), title of the article (when appropriate), title of the item (book, magazine, journal, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. For web pages and online documents, include author or site publisher (in CAPS), title of document, web page address (URL), date published (if known), "visited" date, pages.	T[3] ✓

EXAMINER SIGNATURE	DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1]Enter Office that issued the document, by two-letter code (WIPO Std. ST.3). [2]For Japanese patent documents, the year of the reign of the Emperor must precede the serial number of the document. [3]Place a check mark here if English language translation is attached or "Abs." if English language abstract is attached.

Electronic Acknowledgement Receipt

EFS ID:	21345647
Application Number:	14107058
International Application Number:	
Confirmation Number:	5994
Title of Invention:	STRING GUIDE SYSTEM FOR A BOW
First Named Inventor/Applicant Name:	CRAIG THOMAS YEHLE
Customer Number:	32642
Filer:	Karl G. Schwappach/Kathy Prestidge
Filer Authorized By:	Karl G. Schwappach
Attorney Docket Number:	49398/4600
Receipt Date:	29-JAN-2015
Filing Date:	16-DEC-2013
Time Stamp:	15:16:28
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	Transmittal2.pdf	92147 79e6901dc99be08a5c58bd63a85917657f8a3e7f	no	1

Warnings:	
Information:	

2	Information Disclosure Statement (IDS) Form (SB08)	SuppIDS.pdf	1891996 bf64118d72d2e9661b07d1e580d283f5c214b800	no	4

Warnings:	
Information:	
This is not an USPTO supplied IDS fillable form	
Total Files Size (in bytes):	1984143

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

CERTIFICATE OF EFS TRANSMISSION				
Applicant: Craig Thomas Yehle				**Docket No.: 49398/4600**
Application No.:	**Filing Date:**	**Examiner:**	**Group Art Unit:**	**Confirmation No.**
14/107,058	**12/16/2013**	**Klayman, Amir Arie**	**3711**	**5994**

Invention: STRING GUIDE SYSTEM FOR A BOW

I hereby certify that the following papers are being transmitted to the United States Patent and Trademark Office via the EFS-Web electronic filing system on the date set forth below:

- Supplemental Information Disclosure Statement (4 pgs.)

The Director is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 502375

☒ Any additional filing fees required under 37 CFR 1.16.
☒ Any patent application processing fees under 37 CFR .1.17.

Signature: /Karl G. Schwappach/ **Dated: January 29, 2015**

Printed Name: Karl G. Schwappach

Stoel Rives, LLP
33 South Sixth Street, Suite 4200
Minneapolis, MN 55402
Phone: (612) 373-8836
Facsimile: (612)-373-8881

Certificate of Mailing or Transmission

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being transmitted to the USPTO via the EFS-Web electronic filing system or Facsimile (571-273-8300) on the date set forth below, or being deposited with the USPS as First Class Mail in an envelope addressed to Mail Stop _____, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date set forth below.

/Kathy Prestidge/ Date: January 29, 2015

Kathy Prestidge

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 14/107,058	Filing Date 12/16/2013	☒ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	x $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	x $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT **01/04/2015**

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 20	Minus	** 23	= 0	x $40 =	0
Independent (37 CFR 1.16(h))	* 3	Minus	***4	= 0	x $210 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

AMENDMENT

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	x $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	x $ =	
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/Katrina Harling/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

CRAIG THOMAS YEHLE Confirmation No. 5994

Application No. 14/107,058

Filed: 12-16-2013

For: **STRING GUIDE SYSTEM FOR A BOW**

Group Art Unit: 3711

Examiner:

Attorney Docket No. 49398/4600

Date: February 6, 2014

INFORMATION DISCLOSURE STATEMENT

TO THE COMMISSIONER FOR PATENTS:

1. Documents listed on the accompanying Form PTO-1449 (or equivalent) are presented for the Examiner's consideration.

   ☒ Copies of listed U.S. patents and U.S. patent application publications are not required for submission. (37 C.F.R. § 1.98(a)(2)(ii))

   ☐ Copies of listed foreign patent documents and/or non-patent literature are enclosed. (37 C.F.R. § 1.98(a)(2))

   ☐ Copies of the documents listed at (sheet/cite no.) _____ of the attached Form PTO-1449 (or equivalent) are omitted because (1) they are already of record in U.S. Patent Application No. _____, filed _____, on which this application relies for an earlier filing date under 35 U.S.C. § 120; and (2) any information disclosure statement filed in the prosecution of Application No. _____, complies with 37 CFR §§ 1.98(a) through (c). (37 C.F.R. § 1.98(d))

   ☐ A copy of copending U.S. Patent Application No. _____, filed _____, for _____, listed at (sheet/cite no.) _____ of the attached Form PTO-1449 (or equivalent), ☐ is enclosed / ☐ is omitted. (Copy not required if available via IFW. 1287 OG 162 (Oct. 19, 2004).).

2. This information disclosure statement is being submitted (check box a., b., or c.):

   a. ☒ Within three months of the filing date of a national application or entry of the national stage in an international application; or before the mailing of a first Office action on the merits; or before the mailing of a first Office

action after the filing of a request for continued examination under 37 CFR 1.114. (No statement under 37 CFR 1.97(e) is required.); or

b. ☐ After the period set forth in paragraph 2a, but before the mailing date of either a final action, a notice of allowance, or an action that otherwise closes prosecution in the application. (Check box i. or ii.)

i. ☐ The information disclosure statement submission fee set forth in 37 CFR 1.17(p) is paid herewith, or

ii. ☐ A statement specified by 37 CFR 1.97(e) is set forth below; or

c. ☐ After the mailing date of a final action or notice of allowance and on or before payment of the issue fee. A statement specified by 37 CFR 1.97(e) is set forth below. Enclosed is the information disclosure statement processing fee set forth in 37 CFR 1.17(p).

3. Fee Payment

a. ☐ A check in the amount of $_____ is enclosed.

b. ☐ Payment by credit card.

c. ☐ Please charge our Deposit Account No. 50-2375 in the amount of $_____.

d. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required in connection with filing of these papers, or credit overpayment to Deposit Account No. 50-2375.

4. If a statement specified by 37 CFR 1.97(e) is required, the attorney or agent signing below hereby states that (check box a. or b.):

a. ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement

☐ Such communication was not received by any individual designated in 37 CFR 1.56(c) more than thirty days prior to the filing of this information disclosure statement. (37 C.F.R. § 1.704(d))

b. ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any

individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this information disclosure statement.

5. ☐ A concise explanation of the relevance of each document not in the English language and/or selected documents in the English language is set forth below.

Respectfully submitted,

FIELD LOGIC, INC.

By /Karl G. Schwappach/
Karl G. Schwappach
Registration No. 35,786

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201 S Main Street
Salt Lake City, UT 84111-4904
Telephone: (801) 328-3131
Facsimile: (801) 578-6999

Modification of Forms PTO-1449 and PTO/SB/08

U.S. PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT

(Use as many sheets as necessary)

Application No.	14/107,058
Filing Date	12-16-2013
First Named Inventor	YEHLE, CRAIG THOMAS
Art Unit	3711
Examiner Name	
Attorney Docket No.	49398/4600

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	Document Number Number-Kind Code (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	US- 4,030,473	06-21-1977	Puryear	
	2.	US- 4,192,281	03-11-1980	King	
	3.	US- 4,287,867	09-08-1981	Islas	
	4.	US- 4,479,480	10-30-1984	Holt	
	5.	US- 4,545,358	10-08-1985	Collins	
	6.	US- 4,565,182	01-21-1986	Barnett	
	7.	US- 4,587,944	05-13-1986	Barnett	
	8.	US- 4,693,228	09-15-1987	Simonds, et al.	
	9.	US- 4,719,897	01-19-1988	Gaudreau	
	10.	US- 4,766,874	08-30-1988	Nishioka	
	11.	US- 4,877,008	10-31-1989	Troubridge	
	12.	US- 4,942,861	07-24-1990	Bozek	
	13.	US- 5,085,200	02-04-1992	Horton-Corcoran, et al.	
	14.	US- 5,220,906	06-22-1993	Choma	
	15.	US- D337,145	07-06-1993	Horton-Corcoran	
	16.	US- 5,243,956	09-14-1993	Luehring	
	17.	US- 5,265,584	11-30-1993	Judson, et al.	
	18.	US- 5,388,564	02-14-1995	Islas	
	19.	US- 5,445,139	08-29-1995	Bybee	
	20.	US- 5,522,373	06-04-1996	Barnett	
	21.	US- 5,596,976	01-28-1997	Waiser	
	22.	US- 5,598,829	02-04-1997	Bednar	
	23.	US- 5,630,405	05-20-1997	Nizov	
	24.	US- 5,649,520	07-22-1997	Bednar	
	25.	US- 5,884,614	03-23-1999	Darlington, et al.	
	26.	US- 6,073,351	06-13-2000	Barnett	
	27.	US- 6,095,128	08-01-2000	Bednar	
	28.	US- 6,205,990	03-27-2001	Adkins	
	29.	US- 6,286,496	09-11-2001	Bednar	
	30.	US- 6,425,386	07-30-2002	Adkins	
	31.	US- 6,571,785	06-03-2003	Choma	
	32.	US- 6,651,641	11-25-2003	Bower, et al.	
	33.	US- 6,705,304	03-16-2004	Pauluhn	
	34.	US- 6,712,057	03-30-2004	Andrews	

EXAMINER SIGNATURE	DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1]Enter Office that issued the document, by two-letter code (WIPO Std. ST.3). [2]For Japanese patent documents, the year of the reign of the Emperor must precede the serial number of the document. [3]Place a check mark here if English language translation is attached or "Abs." if English language abstract is attached.

Modification of Forms PTO-1449 and PTO/SB/08

U.S. PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT

(Use as many sheets as necessary)

Application No.	14/107,058
Filing Date	12-16-2013
First Named Inventor	YEHLE, CRAIG THOMAS
Art Unit	3711
Examiner Name	
Attorney Docket No.	49398/4600

	35.	US- 6,736,123	05-18-2004	Summers, et al.	
	36.	US- 6,776,148	08-17-2004	Islas	
	37.	US- 6,786,214	09-07-2004	Andrews	
	38.	US- 6,799,566	10-05-2004	Malucelli	
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	40.	US- 6,901,921	06-07-2005	Barnett	
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	42.	US- 2007/0028907	02-08-2007	Bednar, et al.	
	43.	US- 7,174,884	02-13-2007	Kempf, et al.	
	44.	US- 7,204,242	04-17-2007	Dziekan	
	45.	US- 7,305,979	12-11-2007	Yehle	
	46.	US- 7,328,693	02-12-2008	Kempf	
	47.	US- 7,363,921	04-29-2008	Kempf	
	48.	US- D589,578	03-31-2009	Choma	
	49.	US- D590,907	04-21-2009	Barnett	
	50.	US- 2009/0178657	07-16-2009	Shaffer	
	51.	US- 2009/0194086	08-06-2009	Kempf	
	52.	US- 7,624,724	12-01-2009	Bednar, et al.	
	53.	US- 7,624,725	12-01-2009	Choma	
	54.	US- 2010/0012108	01-21-2010	Bednar, et al.	
	55.	US- 2010/0031945	02-11-2010	Shaffer, et al.	
	56.	US- 7,677,233	03-16-2010	Bednar	
	57.	US- 7,708,001	05-04-2010	Kempf	
	58.	US- 2010/0154768	06-24-2010	Bednar, et al.	
	59.	US- 7,743,760	06-29-2010	Woodland	
	60.	US- 7,748,370	07-06-2010	Choma	
	61.	US- 2010/0170487	07-08-2010	Kronengold, et al.	
	62.	US- 2010/0170488	07-08-2010	Rasor, et al.	
	63.	US- 2010/0186728	07-29-2010	Bednar, et al.	
	64.	US- 7,770,567	08-10-2010	Yehle	
	65.	US- 7,810,480	10-12-2010	Shepley, et al.	
	66.	US- 2010/0269807	10-28-2010	Kempf	
	67.	US- 7,836,871	11-23-2010	Kempf	
	68.	US- 2011/0308508	05-26-2011	Islas	
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	70.	US- 2011/0203561	08-25-2011	Shaffer, et al.	
	71.	US- 8,016,703	09-13-2011	Kronengold, et al.	

EXAMINER SIGNATURE	DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1]Enter Office that issued the document, by two-letter code (WIPO Std. ST.3). [2]For Japanese patent documents, the year of the reign of the Emperor must precede the serial number of the document. [3]Place a check mark here if English language translation is attached or "Abs." if English language abstract is attached.

Modification of Forms PTO-1449 and PTO/SB/08

U.S. PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT

(Use as many sheets as necessary)

Application No.	14/107,058
Filing Date	12-16-2013
First Named Inventor	YEHLE, CRAIG THOMAS
Art Unit	3711
Examiner Name	
Attorney Docket No.	49398/4600

	72.	US- 8,020,543	09-20-2011	Maleski, et al.	
	73.	US- 2011/0232619	09-29-2011	Bednar, et al.	
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	75.	US- 2011/0253118	10-20-2011	Kempf	
	76.	US- 8,042,530	10-25-2011	Barnett	
	77.	US- 8,091,540	01-10-2012	Matasic, et al.	
	78.	US- 2012/0006311	01-12-2012	Bednar, et al.	
	79.	US- 8,104,461	01-31-2012	Kempf	
	80.	US- 8,240,299	08-14-2012	Kronengold, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document Number Country Code[1]-Number[2]-Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[3] ✓

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPS), title of the article (when appropriate), title of the item (book, magazine, journal, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. For web pages and online documents, include author or site publisher (in CAPS), title of document, web page address (URL), date published (if known), "visited" date, pages.	T[3] ✓

EXAMINER SIGNATURE	DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1]Enter Office that issued the document, by two-letter code (WIPO Std. ST.3). [2]For Japanese patent documents, the year of the reign of the Emperor must precede the serial number of the document. [3]Place a check mark here if English language translation is attached or "Abs." if English language abstract is attached.

Electronic Acknowledgement Receipt

EFS ID:	18132949
Application Number:	14107058
International Application Number:	
Confirmation Number:	5994
Title of Invention:	STRING GUIDE SYSTEM FOR A BOW
First Named Inventor/Applicant Name:	CRAIG THOMAS YEHLE
Customer Number:	32642
Filer:	Karl G. Schwappach/Kathy Prestidge
Filer Authorized By:	Karl G. Schwappach
Attorney Docket Number:	49398/4600
Receipt Date:	06-FEB-2014
Filing Date:	16-DEC-2013
Time Stamp:	14:23:50
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	Transmittal1.pdf	472666 636c394e9b43331a896e24b2619bf85d694 70c8b	no	1

Warnings:	
Information:	

2	Information Disclosure Statement (IDS) Form (SB08)	IDS.pdf	530376 1f80e42f0c9e3f9624a133d1fb914e34b845afe5	no	6

Warnings:	
Information:	
This is not an USPTO supplied IDS fillable form	
Total Files Size (in bytes):	1003042

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

CERTIFICATE OF EFS TRANSMISSION **Applicant:** Craig Thomas Yehle				**Docket No.: 49398/4600**
Application No.: **14/107,058**	**Filing Date:** **12/16/2013**	**Examiner:**	**Group Art Unit:** **3711**	**Confirmation No.** **5994**

Invention: STRING GUIDE SYSTEM FOR A BOW

I hereby certify that the following papers are being transmitted to the United States Patent and Trademark Office via the EFS-Web electronic filing system on the date set forth below:

- Information Disclosure Statement (6 pgs.)

The Director is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 502375

☒ Any additional filing fees required under 37 CFR 1.16.
☒ Any patent application processing fees under 37 CFR .1.17.

Signature: /Karl G. Schwappach/ **Dated: February 6, 2014**

Printed Name: Karl G. Schwappach

Stoel Rives, LLP
33 South Sixth Street, Suite 4200
Minneapolis, MN 55402
Phone: (612) 373-8836
Facsimile: (612)-373-8881

Certificate of Mailing or Transmission

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being transmitted to the USPTO via the EFS-Web electronic filing system or Facsimile (571-273-8300) on the date set forth below, or being deposited with the USPS as First Class Mail in an envelope addressed to Mail Stop _____, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date set forth below.

/Kathy Prestidge/ Date: February 6, 2014

Kathy Prestidge

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 14/107,058

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	70		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	300		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	360		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	23 minus 20 =	* 3	x 40 =	120	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	4 minus 3 =	* 1	x 210 =	210			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	1060		TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
14/107,058	12/16/2013	3711	1060	49398/4600	23	4

CONFIRMATION NO. 5994

32642
STOEL RIVES LLP - SLC
201 SOUTH MAIN STREET, SUITE 1100
ONE UTAH CENTER
SALT LAKE CITY, UT 84111

FILING RECEIPT

OC000000065778937

Date Mailed: 01/06/2014

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)
CRAIG THOMAS YEHLE, Holmen, WI;

Applicant(s)
FIELD LOGIC, INC., Superior, WI

Assignment For Published Patent Application
FIELD LOGIC, INC., Superior, WI

Power of Attorney: The patent practitioners associated with Customer Number 32642

Domestic Applications for which benefit is claimed - None.
A proper domestic benefit claim must be provided in an Application Data Sheet in order to constitute a claim for domestic benefit. See 37 CFR 1.76 and 1.78.

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access - A proper **Authorization to Permit Access to Application by Participating Offices** (PTO/SB/39 or its equivalent) has been received by the USPTO.

If Required, Foreign Filing License Granted: 12/26/2013
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/107,058**
Projected Publication Date: 06/18/2015
Non-Publication Request: No

Early Publication Request: No
**** SMALL ENTITY ****
Title

STRING GUIDE SYSTEM FOR A BOW

Preliminary Class

124

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

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NOT GRANTED

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United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/107,058	12/16/2013	CRAIG THOMAS YEHLE	49398/4600

CONFIRMATION NO. 5994

POA ACCEPTANCE LETTER

32642
STOEL RIVES LLP - SLC
201 SOUTH MAIN STREET, SUITE 1100
ONE UTAH CENTER
SALT LAKE CITY, UT 84111

OC000000065778815

Date Mailed: 01/06/2014

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/16/2013.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/bgonzalez/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

PTO/AIA/15 (03-13)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	49398/4600
First Named Inventor	CRAIG THOMAS YEHLE
Title	STRING GUIDE SYSTEM FOR A BOW
Express Mail Label No.	

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. [✓] **Fee Transmittal Form** (PTO/SB/17 or equivalent)
2. [✓] **Applicant asserts small entity status.** See 37 CFR 1.27
3. [ ] **Applicant certifies micro entity status.** See 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent.
4. [✓] **Specification** [*Total Pages* 18] Both the claims and abstract must start on a new page. *(See MPEP § 608.01(a) for information on the preferred arrangement)*
5. [✓] **Drawing(s)** (35 U.S.C. 113) [*Total Sheets* 12]
6. **Inventor's Oath or Declaration** [*Total Pages* 2] *(including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e))*
   a. [✓] Newly executed (original or copy)
   b. [ ] A copy from a prior application (37 CFR 1.63(d))
7. [✓] **Application Data Sheet** ** See note below.* See 37 CFR 1.76 (PTO/AIA/14 or equivalent)
8. **CD-ROM or CD-R** in duplicate, large table, or Computer Program (*Appendix*)
   [ ] Landscape Table on CD
9. **Nucleotide and/or Amino Acid Sequence Submission** (*if applicable, items a. – c. are required*)
   a. [ ] Computer Readable Form (CRF)
   b. [ ] Specification Sequence Listing on:
      i. [ ] CD-ROM or CD-R (2 copies); or
      ii. [ ] Paper
   c. [ ] Statements verifying identity of above copies

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ACCOMPANYING APPLICATION PAPERS

10. [✓] **Assignment Papers** (cover sheet & document(s))
    Name of Assignee FIELD LOGIC, INC.
11. [✓] **37 CFR 3.73(c) Statement** (*when there is an assignee*) [✓] **Power of Attorney**
12. [ ] **English Translation Document** (*if applicable*)
13. [ ] **Information Disclosure Statement** (PTO/SB/08 or PTO-1449)
    [ ] Copies of citations attached
14. [ ] **Preliminary Amendment**
15. [ ] **Return Receipt Postcard** (*MPEP § 503*) (*Should be specifically itemized*)
16. [ ] **Certified Copy of Priority Document(s)** (*if foreign priority is claimed*)
17. [ ] **Nonpublication Request** Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent.
18. [✓] **Other:** Certificate of EFS Transmission

***Note**: (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 **must** be included in an Application Data Sheet (ADS).
(2) For applications filed under 35 U.S.C. 111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.46(b).

19. CORRESPONDENCE ADDRESS

[✓] The address associated with Customer Number: 32642 **OR** [ ] Correspondence address below

Name					
Address					
City		State		Zip Code	
Country		Telephone		Email	

Signature	/Karl G. Schwappach/	Date	2013-12-16
Name (Print/Type)	Karl G. Schwappach	Registration No. (Attorney/Agent)	35786

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Privacy Act Statement

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The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	49398/4600
	Application Number	
Title of Invention	STRING GUIDE SYSTEM FOR A BOW	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	CRAIG	THOMAS	YEHLE	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Holmen	State/Province	WI	Country of Residence	US

Mailing Address of Inventor:

Address 1	W7987 Van Loon Lane		
Address 2			
City	Holmen	**State/Province**	WI
Postal Code	54636	**Country**	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	32642		
Email Address		Add Email	Remove Email

Application Information:

Title of the Invention	STRING GUIDE SYSTEM FOR A BOW		
Attorney Docket Number	49398/4600	**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	12	**Suggested Figure for Publication (if any)**	

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	49398/4600
	Application Number	
Title of Invention	STRING GUIDE SYSTEM FOR A BOW	

Publication Information:

☐	Request Early Publication (Fee required at time of Request 37 CFR 1.219)
☐	**Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	32642		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the application number blank.

Prior Application Status			Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

			Remove
Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	49398/4600
	Application Number	
Title of Invention	STRING GUIDE SYSTEM FOR A BOW	

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Authorization to Permit Access:

☒ Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date o f filing this Authorization.

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	49398/4600
	Application Number	
Title of Invention	STRING GUIDE SYSTEM FOR A BOW	

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

◉ Assignee	○ Legal Representative under 35 U.S.C. 117	○ Joint Inventor
○ Person to whom the inventor is obligated to assign.	○ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor :

If the Applicant is an Organization check here. ☒

Organization Name	FIELD LOGIC, INC.		
Mailing Address Information For Applicant:			
Address 1	101 Main Street		
Address 2			
City	Superior	**State/Province**	WI
Country	US	Postal Code	54880
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not subsitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication . An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	49398/4600
	Application Number	
Title of Invention	STRING GUIDE SYSTEM FOR A BOW	

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Signature	/Karl G. Schwappach/			Date (YYYY-MM-DD)	2013-12-16
First Name	Karl	Last Name	Schwappach	Registration Number	35786

Additional Signature may be generated within this form by selecting the Add button.

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STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: CRAIG THOMAS YEHLE

Application No./Patent No.: _____ Filed/Issue Date: 2013-12-16

Titled: STRING SUIDE SYSTEM FOR A BOW

FIELD LOGIC, INC., a corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☑ The assignee of the entire right, title, and interest.

2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):

   ☐ The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

   ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

A. ☑ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

   1. From: _____ To: _____

      The document was recorded in the United States Patent and Trademark Office at

      Reel _____, Frame _____, or for which a copy thereof is attached.

   2. From: _____ To: _____

      The document was recorded in the United States Patent and Trademark Office at

      Reel _____, Frame _____, or for which a copy thereof is attached.

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**.

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STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☐ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Karl G. Schwappach/	2013-12-16
Signature	Date
Karl G. Schwappach	35786
Printed or Typed Name	Title or Registration Number

Privacy Act Statement

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

ASSIGNMENT

WHEREAS, CRAIG THOMAS YEHLE, of Holmen, Wisconsin ("ASSIGNOR"), has made inventions described in a United States patent application entitled STRING GUIDE SYSTEM FOR A BOW, assigned Attorney Docket No. 49398/4600; and

WHEREAS, ASSIGNOR believes himself or herself to be the original inventor or an original joint inventor of the subject matter claimed in said patent application; and

WHEREAS, FIELD LOGIC, INC., a Wisconsin corporation, having a place of business at 101 Main Street, Superior, Wisconsin 54880 ("ASSIGNEE"), is desirous of acquiring an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR, hereby assigns and transfers to ASSIGNEE the full and exclusive right, title, and interest in and to said inventions, said patent application, and any and all patent rights and letters patent for said inventions in the United States of America and elsewhere throughout the world, including provisional rights, foreign patent priority rights, and the right to apply for patents in ASSIGNOR's name or in the name of ASSIGNEE and further including all divisions and continuations of said application and of any foreign patent applications, and all reissues and extensions of patent rights and letters patent for said inventions, all to be held and enjoyed by ASSIGNEE for its own use and benefit, and by its successors and assigns for their own use and benefit, for the full duration of the terms for which patent rights and letters patent may be granted in this or any foreign country, and covenants that ASSIGNOR has full right so to do, and agrees that ASSIGNOR will communicate to ASSIGNEE and its successors and assigns, any facts known to ASSIGNOR respecting said inventions, and testify in any legal proceeding, sign all lawful papers, execute all lawful divisional, continuation, and reissue applications, make all rightful declarations or oaths, and do everything lawfully possible to aid ASSIGNEE and its successors and assigns, to obtain and enforce proper patent protection for said inventions in the United States of America and elsewhere throughout the world.

Executed at Holmen, State of Wisconsin, this 9th day of December, 2013.

CRAIG THOMAS YEHLE

STATE OF WI)
) ss.
County of La Crosse)

This 9th day of December, 2013 before me personally came the above-named CRAIG THOMAS YEHLE, who acknowledged to me that he or she executed the foregoing instrument of his or her own free will.

Notary Public for La Crosse County
My commission expires: 1-31-16

STOEL RIVES LLP
One Utah Center Suite 1100
201 S Main Street
Salt Lake City, UT 84111-4904
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Attorney Docket No.: 49398/4600

Attorney Docket No. 49398/4600

COMBINED DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION

As a below-named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled STRING GUIDE SYSTEM FOR A BOW, the specification of which

☒ is attached hereto.

☐ was filed on _____ as United States Patent Application No. or PCT International Application No. _____ and was amended on _____ (if applicable).

I have reviewed and understand the contents of the above-identified application, including the specification and claims, as amended by any amendment referred to above, and hereby affirm that the above-identified application was made or authorized to be made by me.

I acknowledge the duty to disclose information that is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby appoint the practitioners of Stoel Rives LLP, USPTO Customer No. **32642**, as my attorneys and agents, with full power of substitution and revocation, to prosecute this application, to file any corresponding international application(s), and to transact all business in the U.S. Patent and Trademark Office connected therewith.

Direct all telephone calls to Karl G. Schwappach at (612) 373-8836. Address all correspondence to customer number 32642:

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I understand that execution of this declaration is required by the patent laws and that the "power of attorney" of this document does not create any attorney-client relationship between me and any of the attorneys of Stoel Rives LLP.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment of not more than five (5) years, or both, under 18 U.S.C. § 1001 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor: CRAIG THOMAS YEHLE

Inventor's signature: _____ 12/9/2013
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As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

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Assignee Name and Address: FIELD LOGIC, INC.

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be Filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of The practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature	[signature]	Date	11-1-13
Name	Jay Engstrom	Telephone	715-395-9955
Title	Chief Operating Officer		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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STRING GUIDE SYSTEM FOR A BOW

Field of the Invention

The present disclosure is directed to a string guide system for a bow that permits greater rotation of the cams and pulleys, permitting a longer power stroke.

Background of the Invention

Bows have been used for many years as a weapon for hunting and target shooting. More advanced bows include cams that increase the mechanical advantage associated with the draw of the bowstring. The cams are configured to yield a decrease in draw force near full draw. Such cams preferably use power cables that load the bow limbs. Power cables can also be used to synchronize rotation of the cams, such as disclosed in U.S. Pat. No. 7,305,979 (Yehle).

With conventional bows and crossbows the draw string is typically pulled away from the generally concave area between the limbs and away from the riser and limbs. This design limits the power stroke for bows and crossbows.

In order to increase the power stroke, the draw string can be positioned on the down-range side of the string guides so that the draw string unrolls between the string guides toward the user as the bow is drawn, such as illustrated in U.S. Patent Nos. 7,836,871 (Kempf) and 7,328,693 (Kempf). One drawback of this configuration is that the power cables can limit the rotation of the cams to about 270 degrees. In order to increase the length of the power stroke, the diameter of the pulleys needs to be increased. Increasing the size of the pulleys results in a larger and less usable bow.

Figures 1-3 illustrate a string guide system for a bow that includes power cables 20A, 20B ("20") attached to respective string guides 22A, 22B ("22") at first attachment points 24A, 24B ("24"). The second ends 26A, 26B ("26") of the power cables 20 are attached to the axles 28A, 28B ("28") of the opposite string guides 22. Draw string 30 engages down-range edges 46A, 46B of string guides 22 and is attached at draw string attachment points 44A, 44B ("44")

As the draw string 30 is moved from released configuration 32 of Figure 1 to drawn configuration 34 of Figures 2 and 3, the string guides 22 counter-rotate toward each other about 270 degrees. The draw string 30 unwinds between the string guides 22 from opposing cam journals 48A, 48B ("48") in what is referred to as a reverse draw configuration. As the first attachment points 24 rotate in direction 36, the power cables 20 are wrapped around respective power cable take-up journal of the string guides 22, which in turn bends the limbs toward each other to store the energy needed for the bow to fire the arrow.

Further rotation of the string guides 22 in the direction 36 causes the power cables 20 to contact the power cable take-up journal, stopping rotation of the cam. The first attachment points 24 may also contact the power cables 20 at the locations 38A, 38B ("38"), preventing further rotation in the direction 36. As a result, rotation of the string guides 22 is limited to about 270 degrees, reducing the length 40 of the power stroke.

Brief Summary of the Invention

The present disclosure is directed to a string guide system for a bow that permits greater rotation of the string guides and a longer power stroke.

The present disclosure is also directed to an archery bow with a central portion having a down-range side and an up-range side. First and second flexible limbs attached to the central portion. A first string guide is mounted to the first bow limb and rotatable around a first axis. The first string guide includes a first draw string journal and a first power cable take-up journal, both oriented generally perpendicular to the first axis. The first power cable take-up journal includes a width measured along the first axis at least twice a width of a first power cable. A second string guide is mounted to the second bow limb and rotatable around a second axis. The second string guide includes a second draw string journal oriented generally perpendicular to the second axis. A draw string is received in the first and second draw string journals and secured to the archery bow in a reverse draw configuration with the draw string adjacent the down-range side in a release configuration. The draw string translates from the down-range side toward the up-range side and unwinds between the first and second string guides in a drawn configuration. A first power cable is received in the first power cable take-up

journal and secured to the archery bow. The first power cable wraps onto the first power cable take-up journal and translates along the first power cable take-up journal away from the first draw string journal as the bow is drawn from the released configuration to the drawn configuration.

In one embodiment, a biasing force translates the first power cable away from the first draw string journal as the bow is drawn from the released configuration to the drawn configuration. In another embodiment, the first power cable take-up journal includes a helical journal that translates the first power cable away from the first draw string journal as the bow is drawn from the released configuration to the drawn configuration.

In another embodiment, the second string guides include a second draw string journal and a second power cable take-up journal, both oriented generally perpendicular to the second axis. The second power cable take-up journal includes a width measured along the second axis at least twice a width of a second power cable. A second power cable is received in the second power cable take-up journal and secured to the archery bow. The second power cable wraps onto the second power cable take-up journal and translates along the second power cable take-up journal away from the second draw string journal as the bow is drawn from the released configuration to the drawn configuration. In one embodiment, the power cables preferably do not cross over the center support.

The first and second string guides rotate more than 270 degrees, and preferably more than 360 degrees, when the bow is drawn from the release configuration to the drawing configuration.

The present disclosure is also directed to a method of operating a bow having a reverse draw configuration with a draw string located adjacent a down-range side of the string guide in a released configuration. The method includes displacing the draw string from the down-range side to a drawn configuration with the draw string located at an up-range side of the string guide. First and second string guides rotate around first and second axes, respectively, as the draw string is displaced from the released configuration to the drawn configuration. A first power cable take-up journal on the first string guide rotates around the first axis to take up a power cable as the bow is drawn from the released configuration to the drawn configuration.

The first power cable take-up journal includes a width measured along the first axis at least twice a width of the first power cable. The first power cable is biased away from at least the draw string. The first power cable is translated along the first power cable take-up journal as the bow is drawn from the released configuration to the drawn configuration.

In one embodiment, the first power cable is translated away from the draw string by winding it on a helical journal.

Brief Description of the Several Views of the Drawing

Figure 1 is a bottom view of a prior art string guide system for a bow in a release configuration.

Figure 2 is a bottom view of the string guide system of Figure 1 in a drawn configuration.

Figure 3 is a perspective view of the string guide system of Figure 1 in a drawn configuration.

Figure 4 is a bottom view of a string guide system for a bow with a helical take-up journal in accordance with an embodiment of the present disclosure.

Figure 5 is a bottom view of the string guide system of Figure 4 in a drawn configuration.

Figure 6 is a perspective view of the string guide system of Figure 4 in a drawn configuration.

Figure 7 is an enlarged view of the left string guide of the string guide system of Figure 4.

Figure 8 is an enlarged view of the right string guide of the string guide system of Figure 4.

Figure 9A is an enlarged view of a power cable take-up journal sized to receive two full wraps of the power cable in accordance with an embodiment of the present disclosure.

Figure 9B is an enlarged view of a power cable take-up journal and draw string journal sized to receive two full wraps of the power cable and draw string in accordance with an embodiment of the present disclosure.

Figure 9C is an enlarged view of an elongated power cable take-up journal in accordance with an embodiment of the present disclosure.

Figure 10 is a schematic illustration of a bow with a string guide system in accordance with an embodiment of the present disclosure.

Figure 11 is a schematic illustration of an alternate bow with a string guide system in accordance with an embodiment of the present disclosure.

Figure 12 is a schematic illustration of an alternate dual-cam bow with a string guide system in accordance with an embodiment of the present disclosure.

Detailed Description of the Invention

Figure 4 illustrates a string guide system 90 for a bow with a reverse draw configuration 92 in accordance with an embodiment of the present disclosure. Power cables 102A, 102B ("102") are attached to respective string guides 104A, 104B ("104") at first attachment points 106A, 106B ("106"). Second ends 108A, 108B ("108") of the power cables 102 are attached to axles 110A, 110B ("110") of the opposite string guides 104. In the illustrated embodiment, the power cables 102 wrap around power cable take-ups 112A, 112B ("112") located on the respective cam assembles 104 when in the released configuration 116 of Figure 4.

In the reverse draw configuration 92 the draw string 114 is located adjacent down-range side 94 of the string guide system 70 when in the released configuration 116. In the released configuration 116 of Figure 4, the distance between the axles 110 may be in the range of less than about 16 inches to less than about 10 inches. In the drawn configuration 118, the distance between the axles 110 may be in the range of about 14 inches to about 8 inches.

As illustrated in Figures 5 and 6, the draw string 114 translates from the down-range side 94 toward the up-range side 96 and unwinds between the first and second string guides 104 in a drawn configuration 118. In the illustrated embodiment, the string guides 104 counter-rotate toward each other in directions 120 more than 360 degrees as the draw string 114 unwinds between the string guides 104 from opposing cam journals 130A, 130B ("130").

The string guides 104 each include one or more grooves, channels or journals located between two flanges around at least a portion of its circumference that guides a flexible

member, such as a rope, string, belt, chain, and the like. The string guides can be cams or pulleys with a variety of round and non-round shapes. The axis of rotation can be located concentrically or eccentrically relative to the string guides. The power cables and draw strings can be any elongated flexible member, such as woven and non-woven filaments of synthetic or natural materials, cables, belts, chains, and the like.

As the first attachment points 106 rotate in direction 120, the power cables 102 are wrapped onto cams 126A, 126B ("126") with helical journals 122A, 122B ("122"), preferably located at the respective axles 110. The helical journals 122 take up excess slack in the power cables 102 resulting from the string guides 104 moving toward each other in direction 124 as the axles 110 move toward each other.

The helical journals 122 serve to displace the power cables 102 away from the string guides 104, so the first attachment points 106 do not contact the power cables 102 while the bow is being drawn (see Figures 7 and 8). As a result, rotation of the string guides 104 is limited only by the length of the draw string journals 130A, 103B ("130"). For example, the draw string journals 130 can also be helically in nature, wrapping around the axles 110 more than 360 degrees.

As a result, the power stroke 132 is extended. In the illustrated embodiment, the power stroke 132 can be increased by at least 25%, and preferably by 40% or more, without changing the diameter of the string guides 104.

In some embodiments, the geometric profiles of the draw string journals 130 and the helical journals 122 contribute to let-off at full draw. A more detailed discussion of cams suitable for use in bows is provided in U.S. Pat. No. 7, 305,979 (Yehle), which is hereby incorporated by reference.

Figures 7 and 8 are enlarged views of the string guides 104A, 104B, respectively, with the draw string 114 in the drawn configuration 118. The helical journals 122 have a length corresponding generally to one full wrap of the power cables 102. The axes of rotation 146A, 146B ("146") of the first and second helical journals 122 preferably extend generally perpendicular to a plane of rotation of the first and second string guides 104. The helical journals 122 displace the power cables 102 away from the draw string 114 as the bow is drawn

from the released configuration 116 to the drawn configuration 118. Height 140 of the helical journals 122 raises the power cables 102 above top surface 142 of the string guides 104. The resulting gap 144 permits the first attachment points 106 and the power cable take-ups 112 to pass freely under the power cables 102. The length of the helical journals 122 can be increased or decreased to optimize draw force versus draw distance for the bow and let-off. The axes of rotation 146 of the helical journals 122 are preferably co-linear with axes 110 of rotation for the string guides 104.

Figure 9A illustrates an alternate string guide 200 in accordance with an embodiment of the present disclosure. Power cable take-ups 202 have helical journals 204 that permit the power cables 102 to wrap around about two full turns or about 720 degrees. The extended power cable take-up 202 increases the gap 206 between the power cables 102 and top surface 208 of the string guide 200 and provides excess capacity to accommodate more than 360 degrees of rotation of the string guides 200.

Figure 9B illustrates an alternate string guide 250 in accordance with an embodiment of the present disclosure. The draw string journals 252 and the power cable journals 254 are both helical structures designed so that the draw string 114 and the power cables 102 can wrap two full turns around the string guide 250.

Figure 9C illustrates an alternate string guide 270 with a smooth power cable take-up 272 in accordance with an embodiment of the present disclosure. The power cable take-up 272 has a surface 274 with a height 276 at least twice a diameter 278 of the power cable 102. In another embodiment, the surface 274 has a height 276 at least three times the diameter 278 of the power cable 102. Biasing force 280, such as from a cable guard located on the bow shifts the power cables 102 along the surface 274 away from top surface 282 of the string guide 270 when in the drawn configuration 284.

Figure 10 is a schematic illustration of bow 150 with a string guide system 152 in accordance with an embodiment of the present disclosure. Bow limbs 154A, 154B ("154") extend oppositely from handle 156. String guides 158A, 158B ("158") are rotatably mounted, typically eccentrically, on respective limbs 154A, 154B on respective axles 160A, 160B ("160") in a reverse draw configuration 174.

Draw string 162 is received in respective draw string journals (see e.g., Figures 7 and 8) and secured at each end to the string guides 158 at locations 164A, 164B. When the bow is in the release configuration 176 illustrated in Figure 10, the draw string 162 is located adjacent the down-range side 178 of the bow 150. When the bow 150 is drawn, the draw string 162 unwinds from the draw string journals toward the up-range side 180 of the bow 150, thereby rotating the string guides 158 in direction 166.

First power cable 168A is secured to the first string guide 158A at first attachment point 170A and engages with a power cable take-up with a helical journal 172A (see Figures 7 and 8) as the bow 150 is drawn. As the string guide 158A rotates in the direction 166, the power cable 168A is taken up by the cam 172A. The other end of the first power cable 168A is secured to the axle 160B.

Second power cable 168B is secured to the second string guide 158B at first attachment point 170B and engages with a power cable take-up with a helical journal 172B (see Figures 7 and 8) as the bow 150 is drawn. As the string guide 158B rotates, the power cable 168B is taken up by the cam 172B. The other end of the second power cable 168B is secured to the axle 160A. The power cable take-ups 172 are arranged so that as the bow 150 is drawn, the bow limbs 154 are drawn toward one another.

Figure 11 is a schematic illustration of a crossbow 300 with a reverse draw configuration 302 in accordance with an embodiment of the present disclosure. The crossbow 300 includes a center portion 304 with down-range side 306 and up-range side 308. In the illustrated embodiment, the center portion 304 includes riser 310. First and second flexible limbs 312A, 312B ("312") are attached to the riser 310 and extend from opposite sides of the center portion 304.

Draw string 314 extends between first and second string guides 316A, 316B ("316"). In the illustrated embodiment, the string guide 316A is substantially as shown in Figures 4-8, while the string guide 316B is a conventional pulley.

The first string guide 316A is mounted to the first bow limb 312A and is rotatable around a first axis 318A. The first string guide 316A includes a first draw string journal 320A and a first power cable take-up journal 322A, both of which are oriented generally perpendicular

to the first axis 318A. (See e.g., Figure 8). The first power cable take-up journal 322A includes a width measured along the first axis 318A that is at least twice a width of power cable 324.

The second string guide 316B is mounted to the second bow limb 312A and rotatable around a second axis 318B. The second string guide 316B includes a second draw string journal 320B oriented generally perpendicular to the second axis 318B.

The draw string 314 is received in the first and second draw string journals 320A, 320B and is secured to the first string guide 316A at first attachment point 325. The draw string extends adjacent to the down-range side 306 to the second string guide 316B, wraps around the second string guide 316B, and is attached at the first axis 318A.

Power cable 324 is attached to the string guide 316A at attachment point 326. See Figure 4. Opposite end of the power cable 324 is attached to the axis 318B. In the illustrated embodiment, power cable 324 wraps onto the first power cable take-up journal 322A and translates along the first power cable take-up journal 322A away from the first draw string journal 320A as the bow 300 is drawn from the released configuration 328 to the drawn configuration (see Figures 5-8).

Figure 12 is a schematic illustration of a dual-cam crossbow 350 with a reverse draw configuration 352 in accordance with an embodiment of the present disclosure. The crossbow 350 includes a center portion 354 with down-range side 356 and up-range side 358. First and second flexible limbs 362A, 362B ("362") are attached to riser 360 and extend from opposite sides of the center portion 354. Draw string 364 extends between first and second string guides 366A, 366B ("366"). In the illustrated embodiment, the string guides 366 are substantially as shown in Figures 4-8.

The string guides 366 are mounted to the bow limb 362 and are rotatable around first and second axis 368A, 368B ("368"), respectively. The string guides 366 include first and second draw string journals 370A, 370B ("370") and first and second power cable take-up journals 372A, 372B ("372"), both of which are oriented generally perpendicular to the axes 368, respectively. (See e.g., Figure 8). The power cable take-up journals 372 include widths measured along the axes 368 that is at least twice a width of power cables 374A, 374B ("374").

The draw string 364 is received in the draw string journals 370 and is secured to the string guides 316 at first and second attachment points 375A, 375B ("325").

Power cables 374 are attached to the string guides 316 at attachment points 376A, 376B ("376"). See Figure 4. Opposite ends 380A, 380B ("380") of the power cables 374 are attached to anchors 378A, 378B ("378") on the center portion 354. The power cables 374 preferably do not cross over the center support 354.

In the illustrated embodiment, power cables wrap 374 onto the power cable take-up journal 372 and translates along the power cable take-up journals 372 away from the draw string journals 370 as the bow 350 is drawn from the released configuration 378 to the drawn configuration (see Figures 5-8).

The string guides disclosed herein can be used with a variety of bows and crossbows, including those disclosed in commonly assigned U.S. Pat. Application Serial Nos. 13/799,518, entitled Energy Storage Device for a Bow, filed March 13, 2013 and 14/071,723, entitled DeCocking Mechanism for a Bow, filed November 5, 2013, both of which are hereby incorporated by reference.

Where a range of values is provided, it is understood that each intervening value, to the tenth of the unit of the lower limit unless the context clearly dictates otherwise, between the upper and lower limit of that range and any other stated or intervening value in that stated range is encompassed within this disclosure. The upper and lower limits of these smaller ranges which may independently be included in the smaller ranges is also encompassed within the disclosure, subject to any specifically excluded limit in the stated range. Where the stated range includes one or both of the limits, ranges excluding either both of those included limits are also included in the disclosure.

Unless defined otherwise, all technical and scientific terms used herein have the same meaning as commonly understood by one of ordinary skill in the art to which this disclosure belongs. Although any methods and materials similar or equivalent to those described herein can also be used in the practice or testing of the various methods and materials are now described. All patents and publications mentioned herein, including those cited in the Background of the application, are hereby incorporated by reference to disclose and described

the methods and/or materials in connection with which the publications are cited.

The publications discussed herein are provided solely for their disclosure prior to the filing date of the present application. Nothing herein is to be construed as an admission that the present disclosure is not entitled to antedate such publication by virtue of prior invention. Further, the dates of publication provided may be different from the actual publication dates which may need to be independently confirmed.

Other embodiments are possible. Although the description above contains much specificity, these should not be construed as limiting the scope of the disclosure, but as merely providing illustrations of some of the presently preferred embodiments. It is also contemplated that various combinations or sub-combinations of the specific features and aspects of the embodiments may be made and still fall within the scope of this disclosure. It should be understood that various features and aspects of the disclosed embodiments can be combined with or substituted for one another in order to form varying modes disclosed. Thus, it is intended that the scope of at least some of the present disclosure should not be limited by the particular disclosed embodiments described above.

Thus the scope of this disclosure should be determined by the appended claims and their legal equivalents. Therefore, it will be appreciated that the scope of the present disclosure fully encompasses other embodiments which may become obvious to those skilled in the art, and that the scope of the present disclosure is accordingly to be limited by nothing other than the appended claims, in which reference to an element in the singular is not intended to mean "one and only one" unless explicitly so stated, but rather "one or more." All structural, chemical, and functional equivalents to the elements of the above-described preferred embodiment that are known to those of ordinary skill in the art are expressly incorporated herein by reference and are intended to be encompassed by the present claims. Moreover, it is not necessary for a device or method to address each and every problem sought to be solved by the present disclosure, for it to be encompassed by the present claims. Furthermore, no element, component, or method step in the present disclosure is intended to be dedicated to the public regardless of whether the element, component, or method step is explicitly recited in the claims.

What is claimed is:

1. An archery bow, comprising:

a central portion comprising a down-range side and an up-range side;

first and second flexible limbs attached to the central portion;

a first string guide mounted to the first bow limb and rotatable around a first axis, the first string guide comprising a first draw string journal and a first power cable take-up journal both oriented generally perpendicular to the first axis;

a second string guide mounted to the second bow limb and rotatable around a second axis, the second string guide comprising a second draw string journal oriented generally perpendicular to the second axis;

a draw string received in the first and second draw string journals and secured to the archery bow in a reverse draw configuration with the draw string adjacent the down-range side of the string guides in a release configuration, wherein the draw string translates from the down-range side toward the up-range side and unwinds between the first and second string guides to a drawn configuration; and

a first power cable received in the first power cable take-up journal and secured to the archery bow, wherein the first power cable wraps onto the first power cable take-up journal and translates along the first axis away from the first draw string journal as the bow is drawn from the released configuration to the drawn configuration.

2. The archery bow of claim 1 comprising a biasing force that translates the first power cable away from the first draw string journal as the bow is drawn from the released configuration to the drawn configuration.

3. The archery bow of claim 1 wherein the first power cable take-up journal comprises a helical journal that translates the first power cable away from the first draw string journal as the bow is drawn from the released configuration to the drawn configuration.

4. The archery bow of claim 1 wherein the first power cable take-up journal comprises a width measured along the first axis at least twice a width of a first power cable.

5. The archery bow of claim 1 comprising:

a second power cable take-up journal on the second string guide that is oriented generally perpendicular to the second axis, the second power cable take-up journal comprising a width measured along the second axis at least twice a width of a second power cable; and

a second power cable received in the second power cable take-up journal and secured to the archery bow, wherein the second power cable wraps onto the second power cable take-up journal and translates along the second power cable take-up journal away from the second draw string journal as the bow is drawn from the released configuration to the drawn configuration.

6. The archery bow of claim 5 wherein the first and second power cables do not cross over the center portion.

7. The archery bow of claim 1 wherein the first and second string guides rotate more than 270 degrees when the bow is drawn from the release configuration to the drawing configuration.

8. The archery bow of claim 1 wherein the first and second string guides rotate more than 360 degrees when the bow is drawn from the release configuration to the drawing configuration.

9. The archery bow of claim 1 wherein the draw string includes a first end secured to the first string guide and a second end secured to the archery bow.

10. The archery bow of claim 1 wherein the power cable includes a first end secured to the first draw string guide and a second end secured to the second axis.

11. The archery bow of claim 1 wherein the first and second draw string journals comprise helical structures.

12. An archery bow, comprising:

a central portion comprising a down-range side and an up-range side;

first and second flexible limbs attached to the central portion;

a first string guide mounted to the first bow limb and rotatable around a first axis, the first string guide comprising a first draw string journal and a first power cable take-up journal both oriented generally perpendicular to the first axis, the first power cable take-up journal comprising a width measured along the first axis at least twice a width of a first power cable;

a second string guide mounted to the second bow limb and rotatable around a second axis, the second string guide comprising a second draw string journal and a second power cable take-up journal both oriented generally perpendicular to the second axis, the second power cable take-up journal comprising a width measured along the second axis at least twice a width of a second power cable;

a draw string received in the first and second draw string journals and secured to the archery bow in a reverse draw configuration with the draw string adjacent the down-range side in a release configuration, and the draw string translates from the down-range side toward the up-range side and unwinds between the first and second string guides in a drawn configuration; and

first and second power cables received in the first and second power cable take-up journal, respectively, and secured to the archery bow, wherein the first and second power cables wrap onto the first and second power cable take-up journals and translates away from the first and second draw string journal, respectively, as the bow is drawn from the released configuration to the drawn configuration.

13. The archery bow of claim 12 wherein the first and second power cables do not cross over the center portion.

14. An archery bow, comprising:

a central portion comprising a down-range side and an up-range side;

first and second flexible limbs attached to the central portion;

a first string guide mounted to the first bow limb and rotatable around a first axis, the first string guide comprising a first draw string journal and a first power cable take-up journal both oriented generally perpendicular to the first axis.

a second string guide mounted to the second bow limb and rotatable around a second axis, the second string guide comprising a second draw string journal oriented generally perpendicular to the second axis;

a draw string received in the first and second draw string journals and secured to the archery bow in a reverse draw configuration with the draw string adjacent the down-range side of the string guide in a release configuration, wherein the draw string translates from the down-range side toward the up-range side and unwinds between the first and second string guides to a drawn configuration; and

a first power cable received in the first power cable take-up journal and secured to the archery bow,

wherein the first string guide rotates greater than 270 degrees between the released and the drawn configuration.

15. The archery bow of claim 14 wherein the first string guide rotates at least 360 degrees between the released configuration and the drawn configuration.

16. The archery bow of claim 14 wherein a distance between the first and second axis when the bow is in the released configuration is less than about 14 inches.

17. A method of operating a bow having a reverse draw configuration with a draw string located adjacent a down-range side of the bow in a released configuration, the method comprising the steps of:

displacing the draw string from the down-range side to a drawn configuration with the draw string located at an up-range side of the bow;

rotating first and second string guides around first and second axes, respectively, as the draw string is displaced from the released configuration to the drawn configuration;

rotating a first power cable take-up journal on the first string guide around the first axis to take up a power cable as the bow is drawn from the released configuration to the drawn configuration, the first power cable take-up journal comprising a width measured along the first axis at least twice a width of the first power cable;

biasing the first power cable away from at least the draw string; and

translating the first power cable along the first power cable take-up journal as the bow is drawn from the released configuration to the drawn configuration.

18. The method of claim 17 comprising translating the first power cable away from the draw string by winding it on a helical journal as the bow is drawn from the released configuration to the drawn configuration.

19. The method of claim 17 comprising:

rotating a second power cable take-up journal on the second string guide around the second axis to take up a power cable as the bow is drawn from the released configuration to the drawn configuration, the second power cable take-up journal comprising a width measured along the second axis at least twice a width of the second power cable;

biasing the second power cable away from at least the draw string; and

translating the second power cable along the second power cable take-up journal as the bow is drawn from the released configuration to the drawn configuration.

20. The method of claim 17 comprising rotating the first and second string guides more than 270 degrees when the bow is drawn from the release configuration to the drawing configuration.

21. The method of claim 17 comprising rotating the first and second string guides more than 360 degrees when the bow is drawn from the release configuration to the drawing configuration.

22. The method of claim 17 comprising attaching a first end of the draw string to the first string guide and attaching a second end to the archery bow.

23. The method of claim 17 comprising attaching a first end of the first power cable to the first draw string guide and attaching a second end to the second axis.

Abstract of the Disclosure

A string guide for a bow having a reverse draw configuration with a draw string located adjacent a down-range side of the bow in a released configuration. First and second string guides rotate around first and second axes, respectively, as the draw string is displaced from the released configuration to the drawn configuration. A first power cable take-up journal on the first string guide rotates around the first axis to take up a power cable. The first power cable take-up journal includes a width measured along the first axis at least twice a width of the first power cable. The first power cable is biased away from at least the draw string. The first power cable is translated along the first power cable take-up journal as the bow is drawn from the released configuration to the drawn configuration.

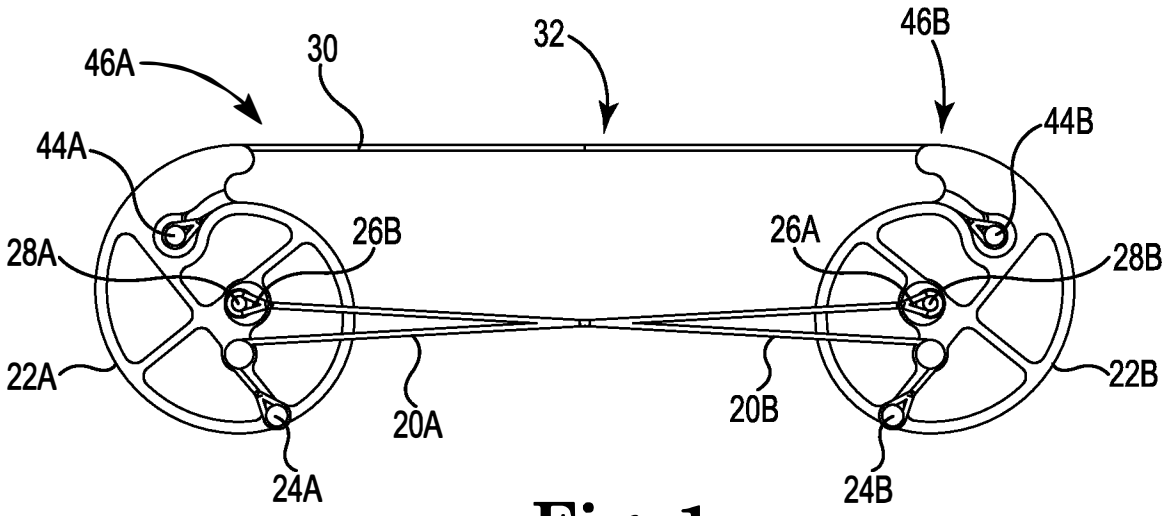

46A
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46B
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44B
28A
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26A
28B
22A
22B
20A
20B
24A
24B

Fig. 1

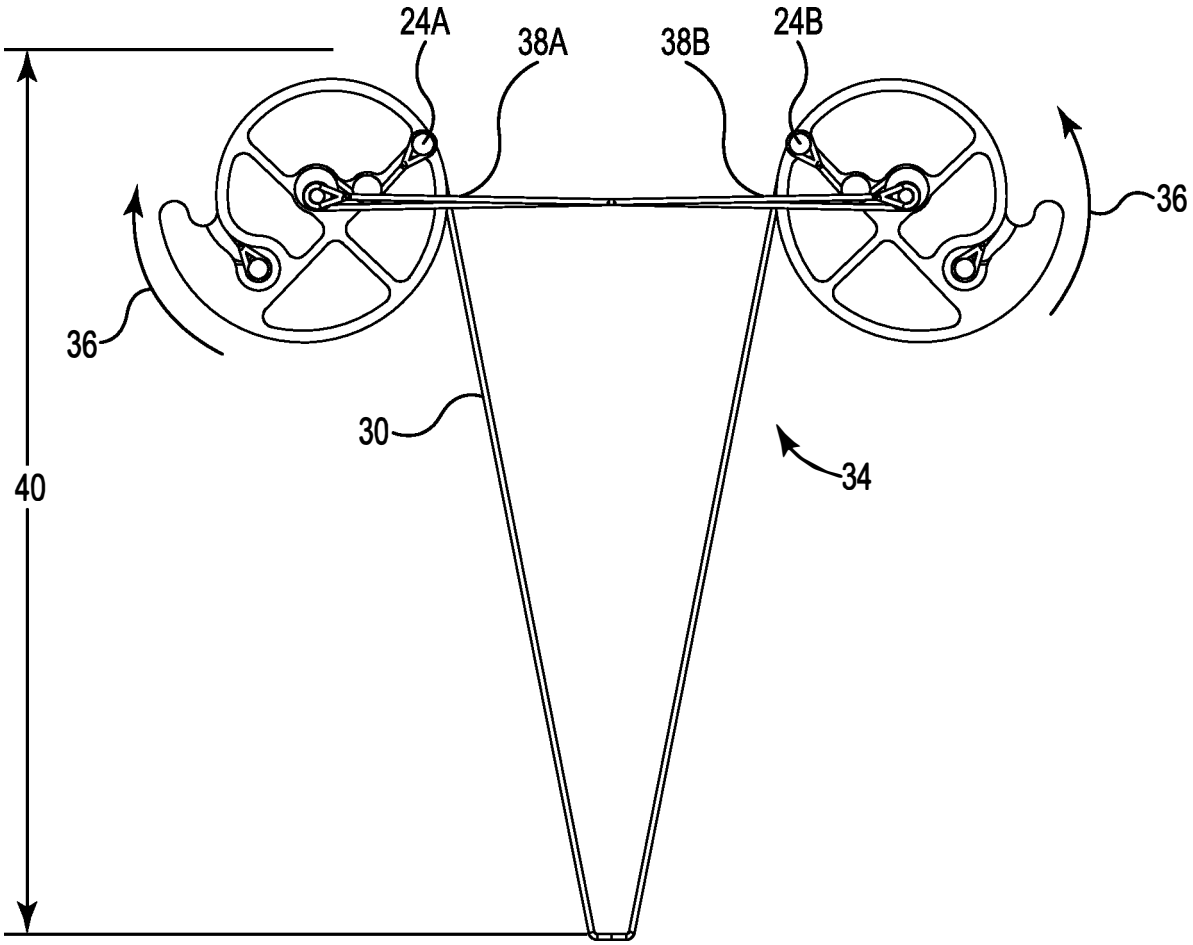

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Fig. 2

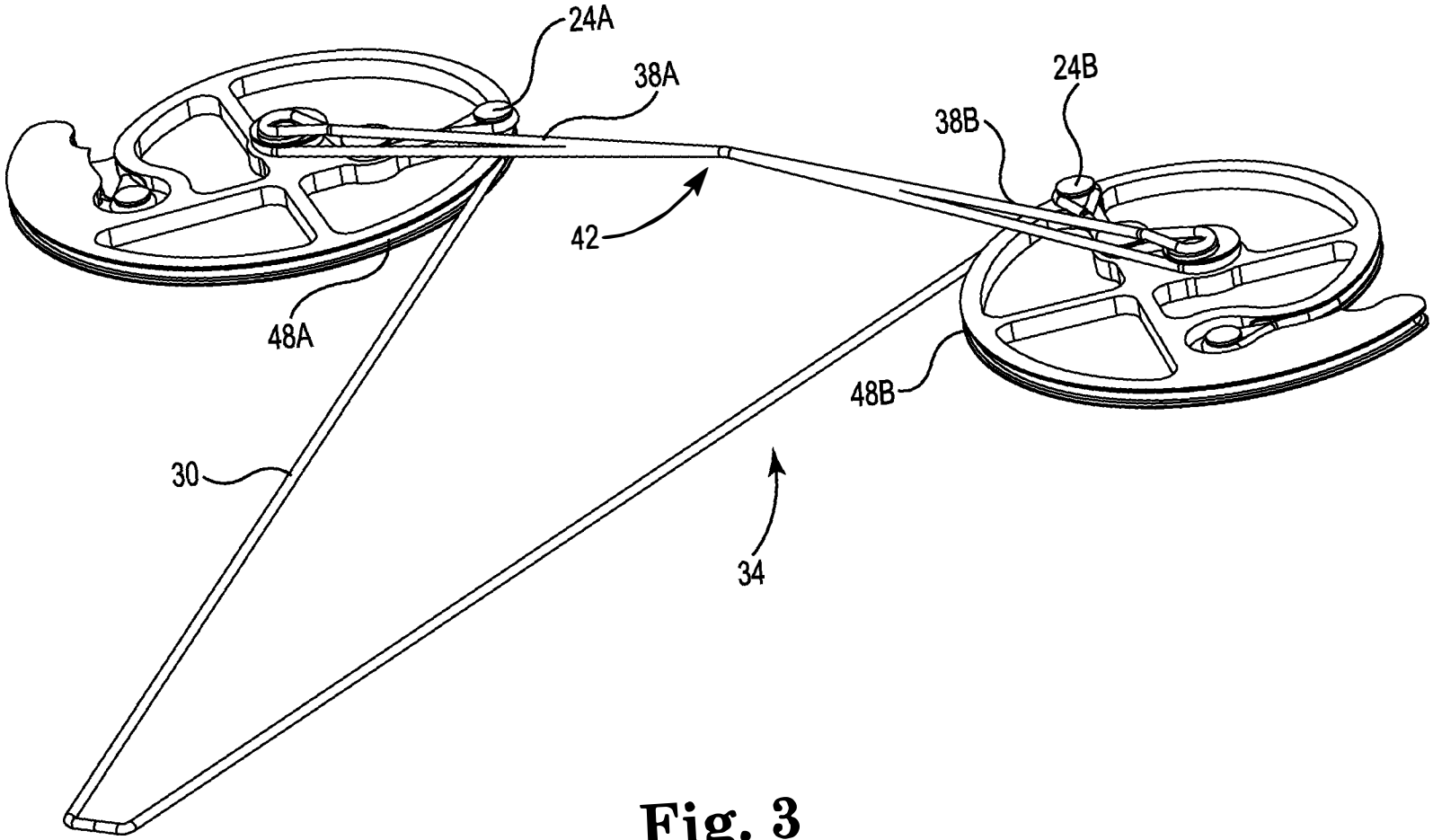


Fig. 3

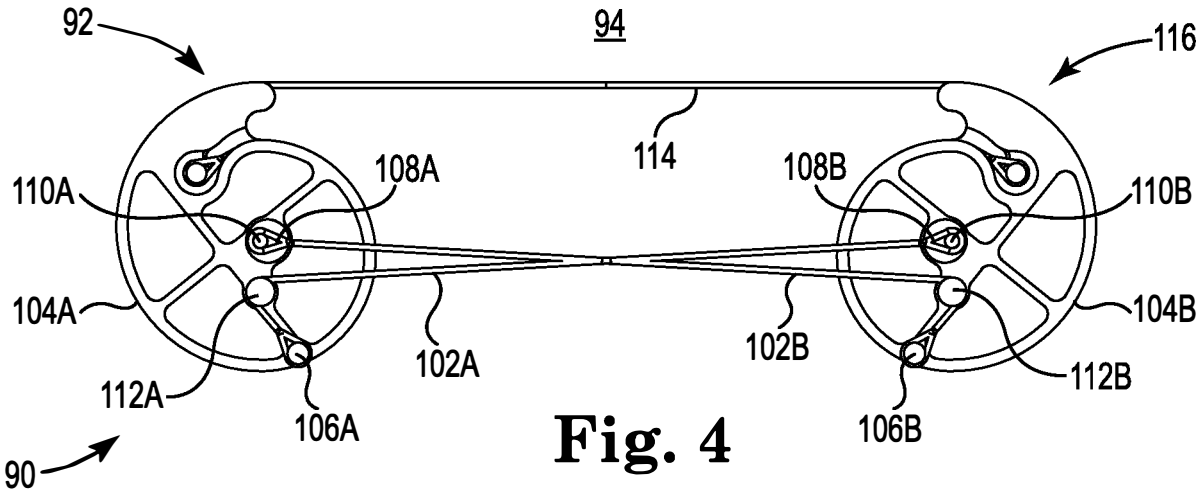

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Fig. 4

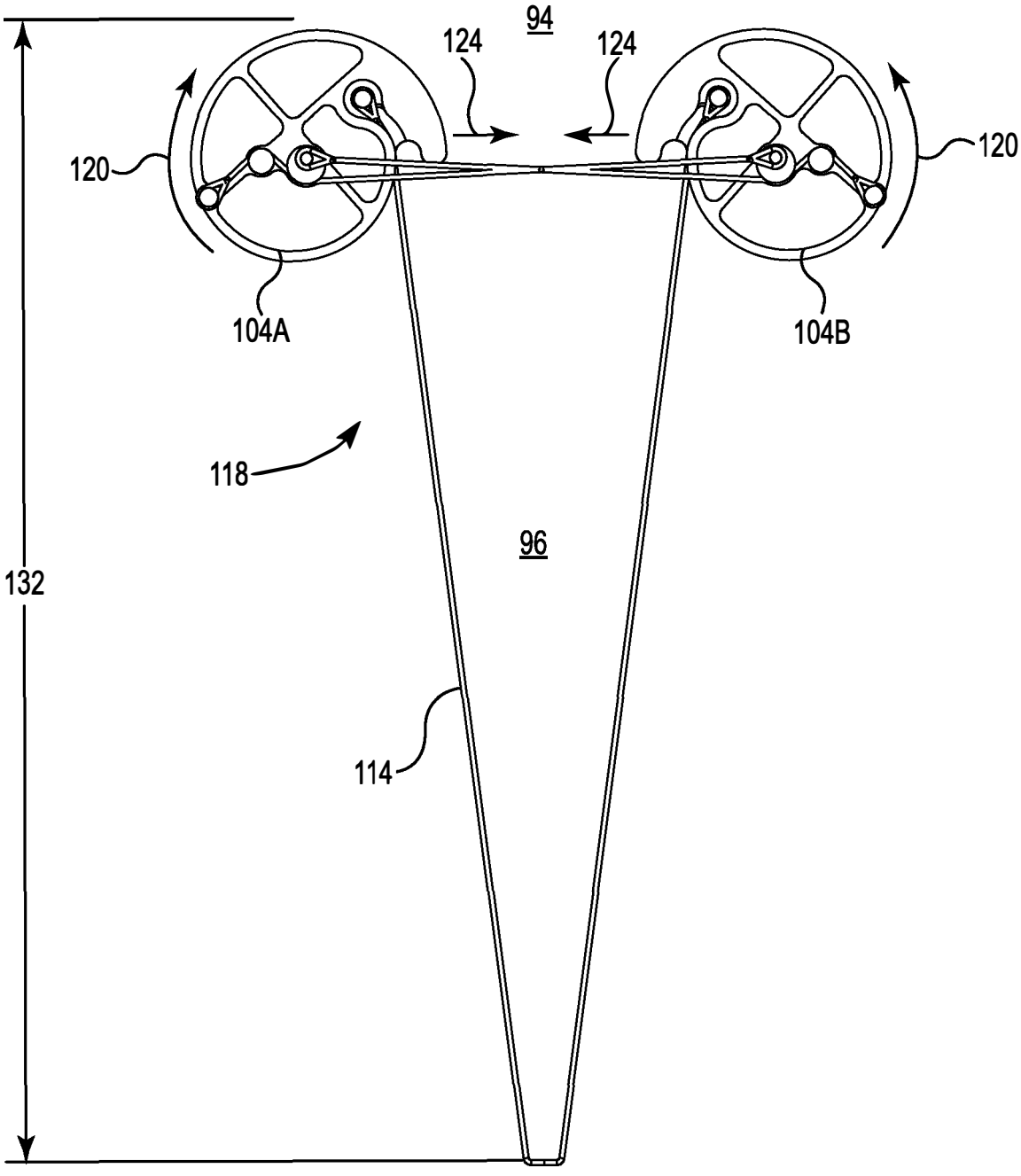

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Fig. 5

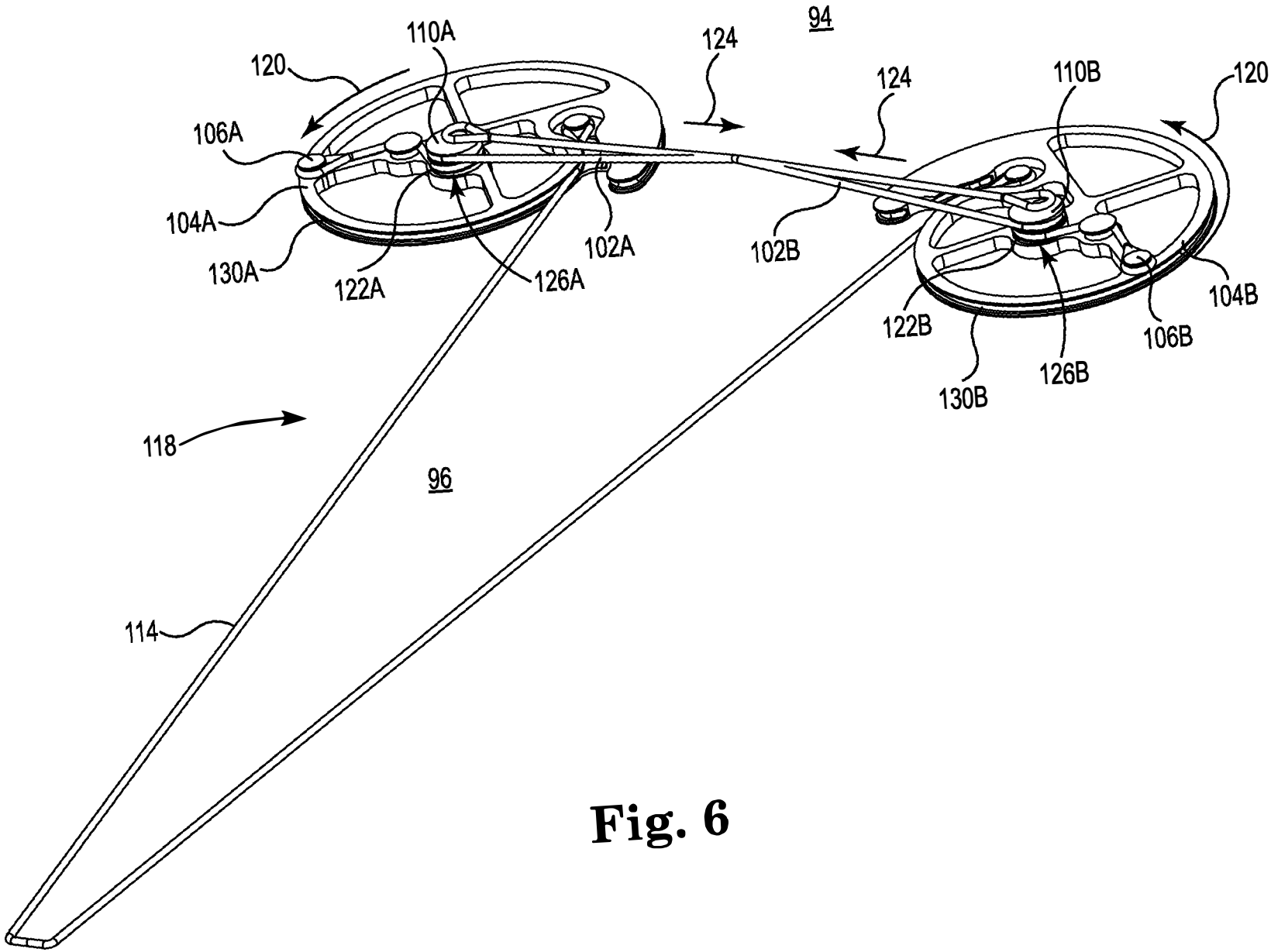

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Fig. 6

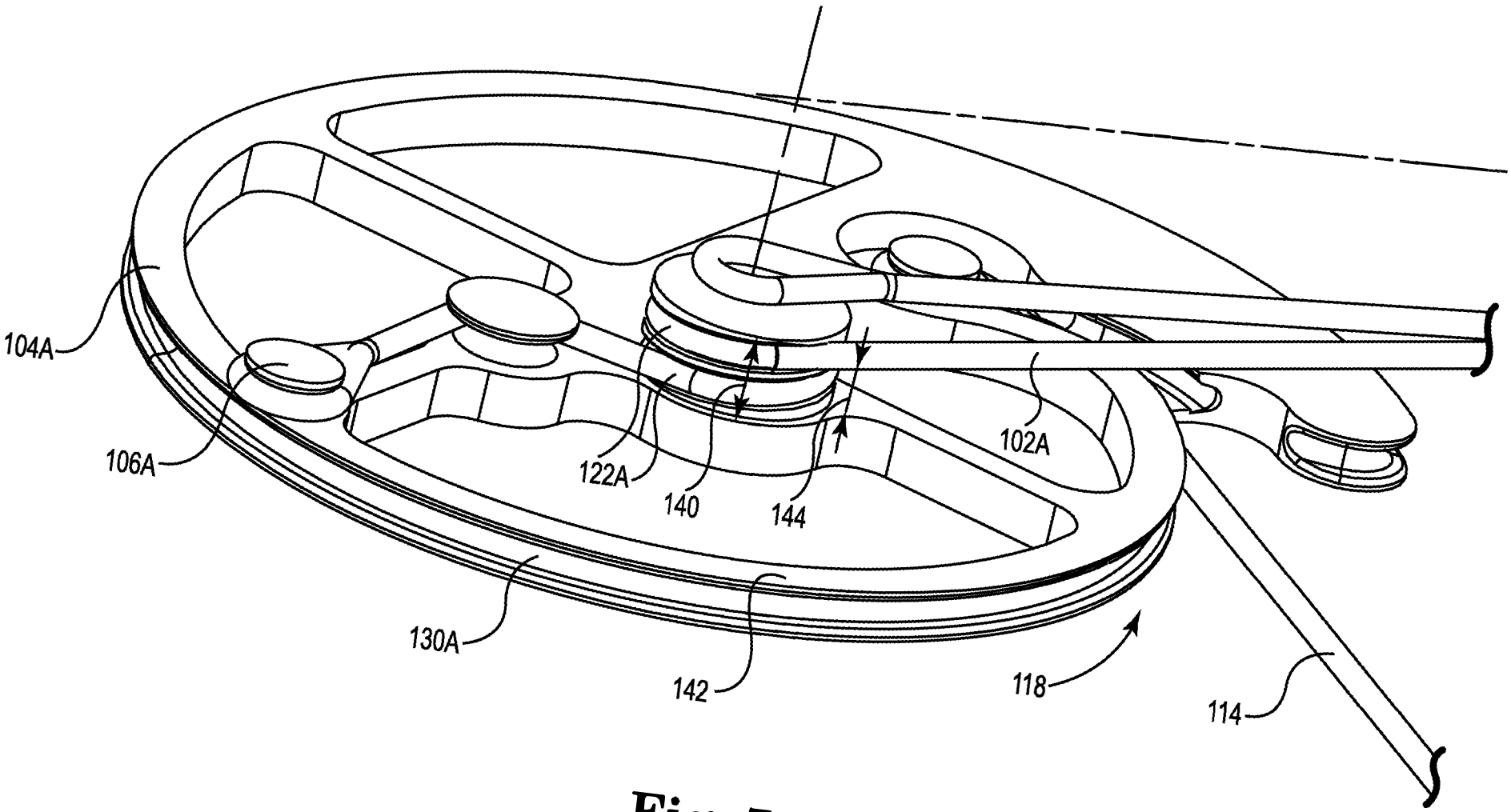


Fig. 7

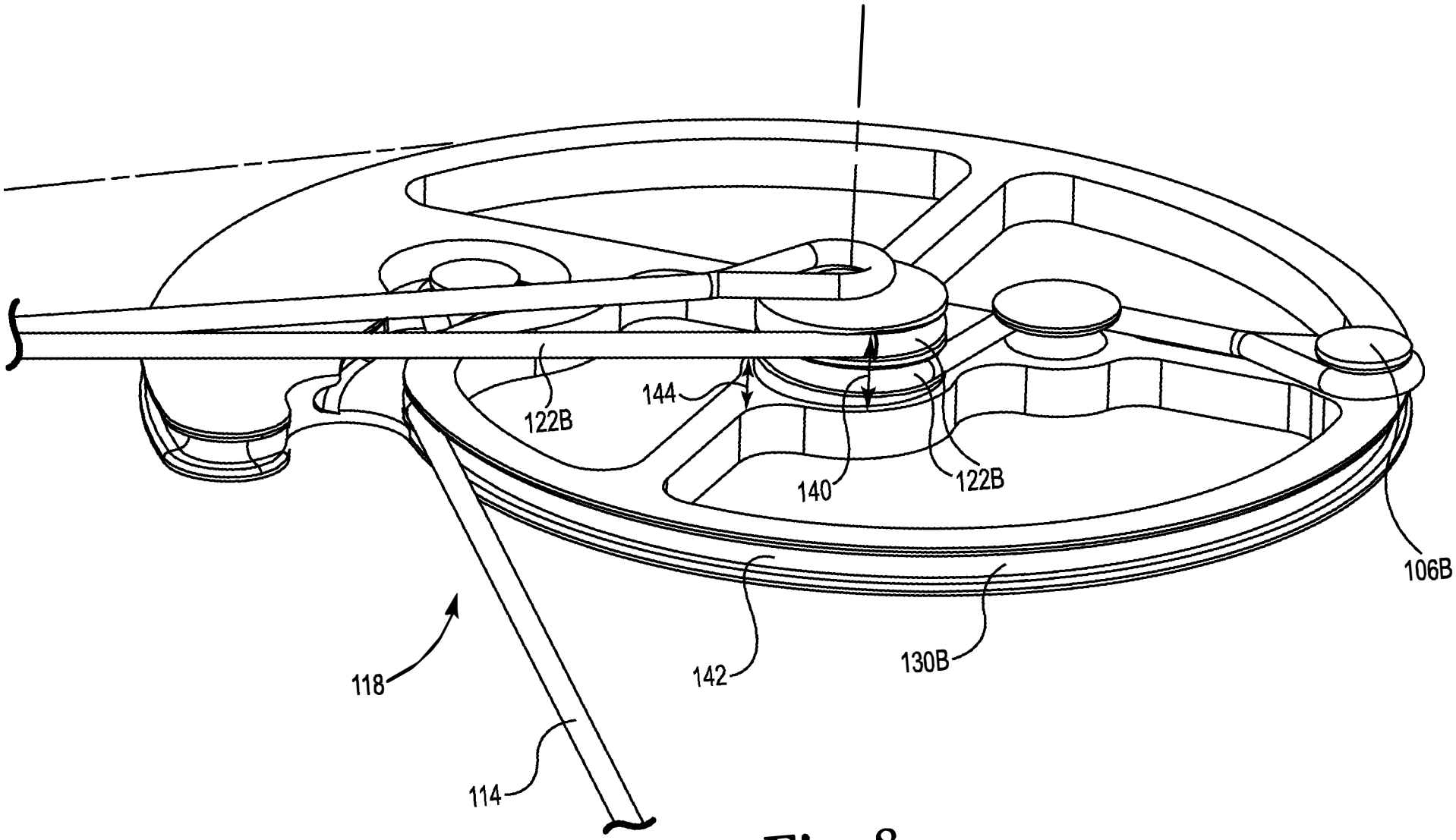


Fig. 8

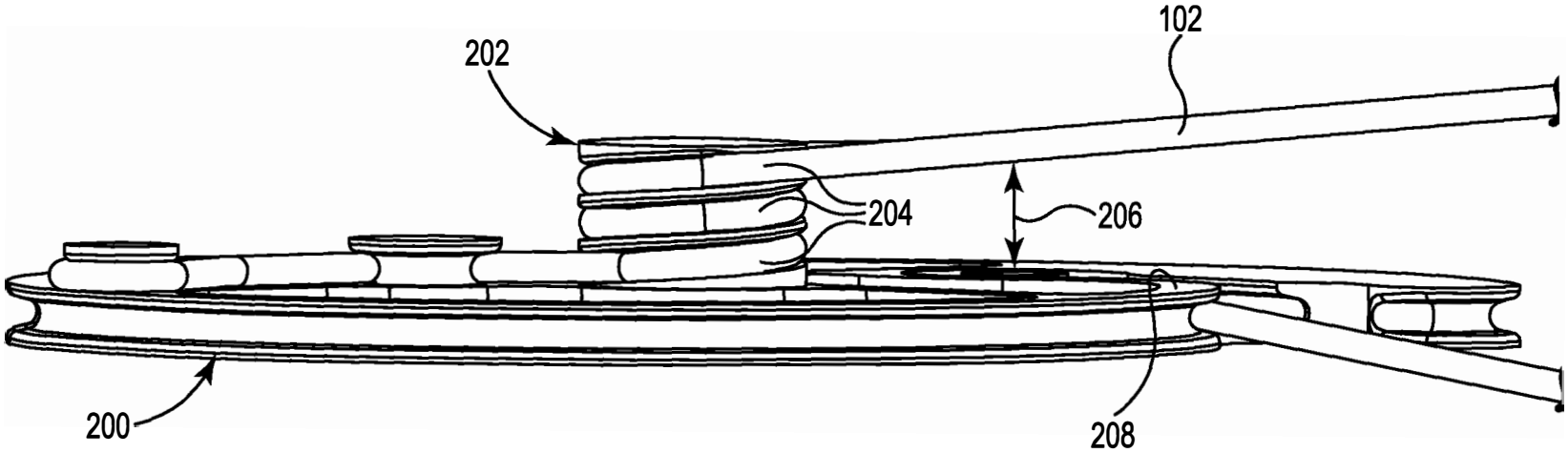


Fig. 9A

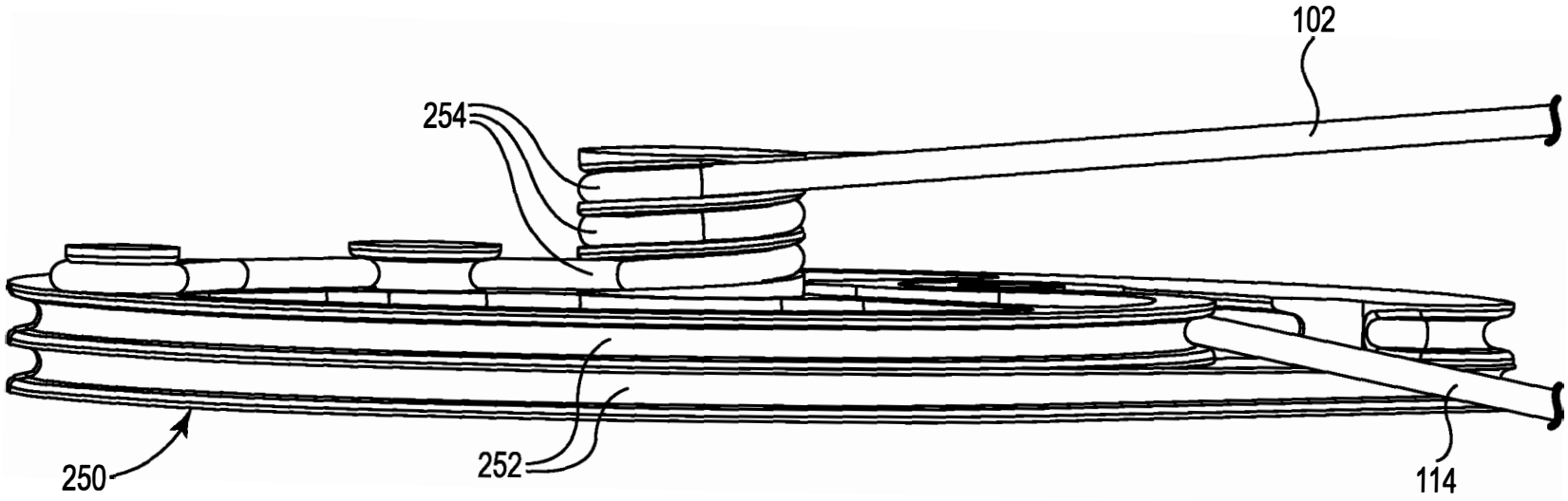


Fig. 9B

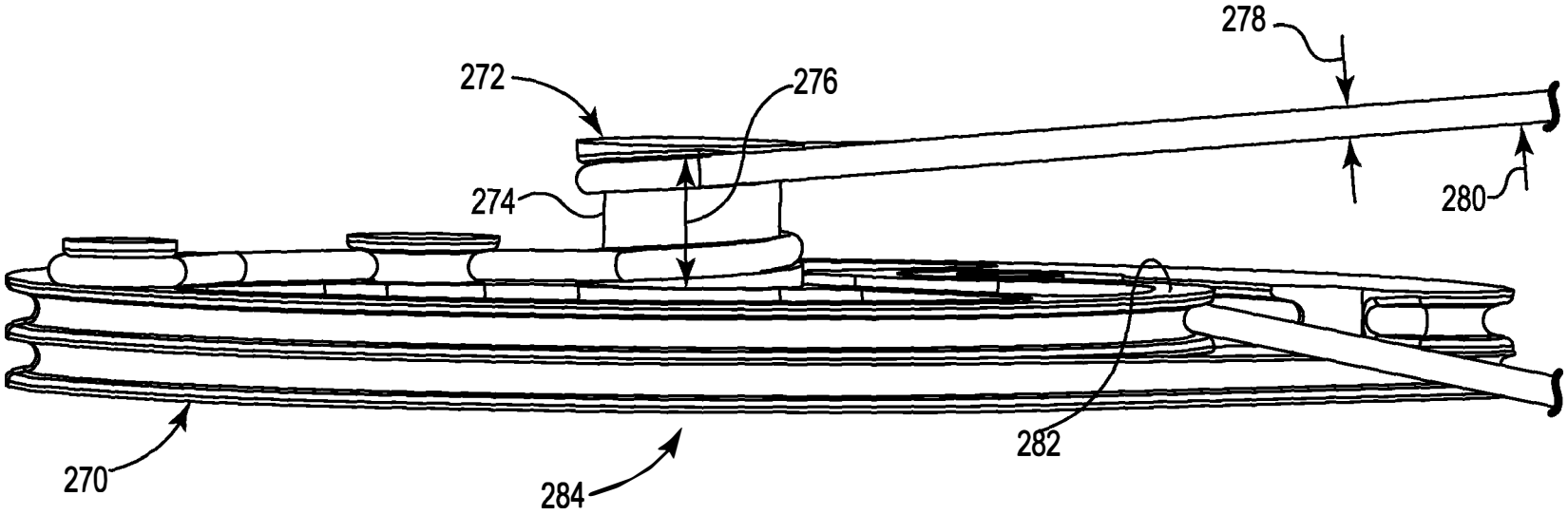


Fig. 9C

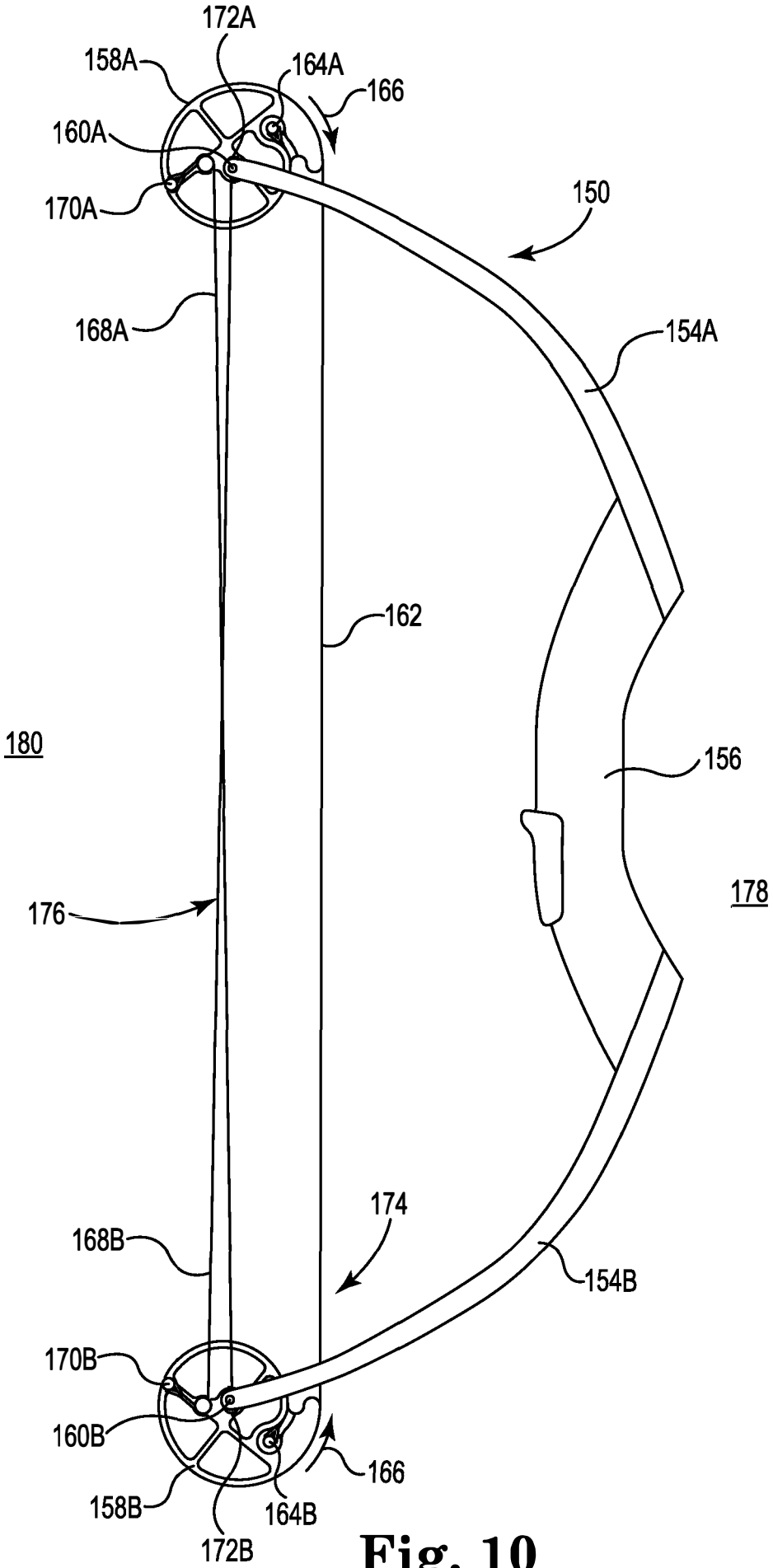

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Fig. 10

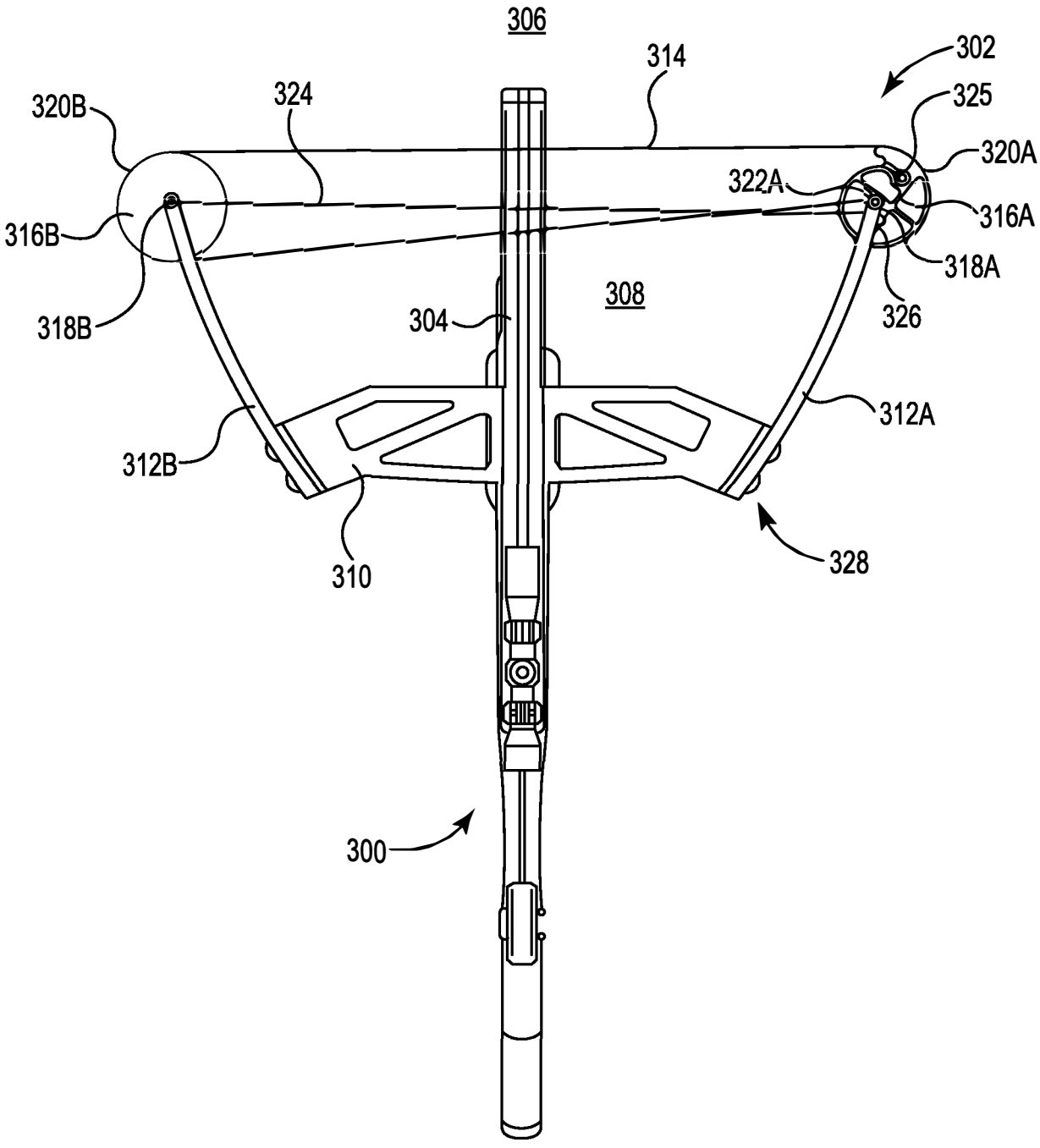

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Fig. 11

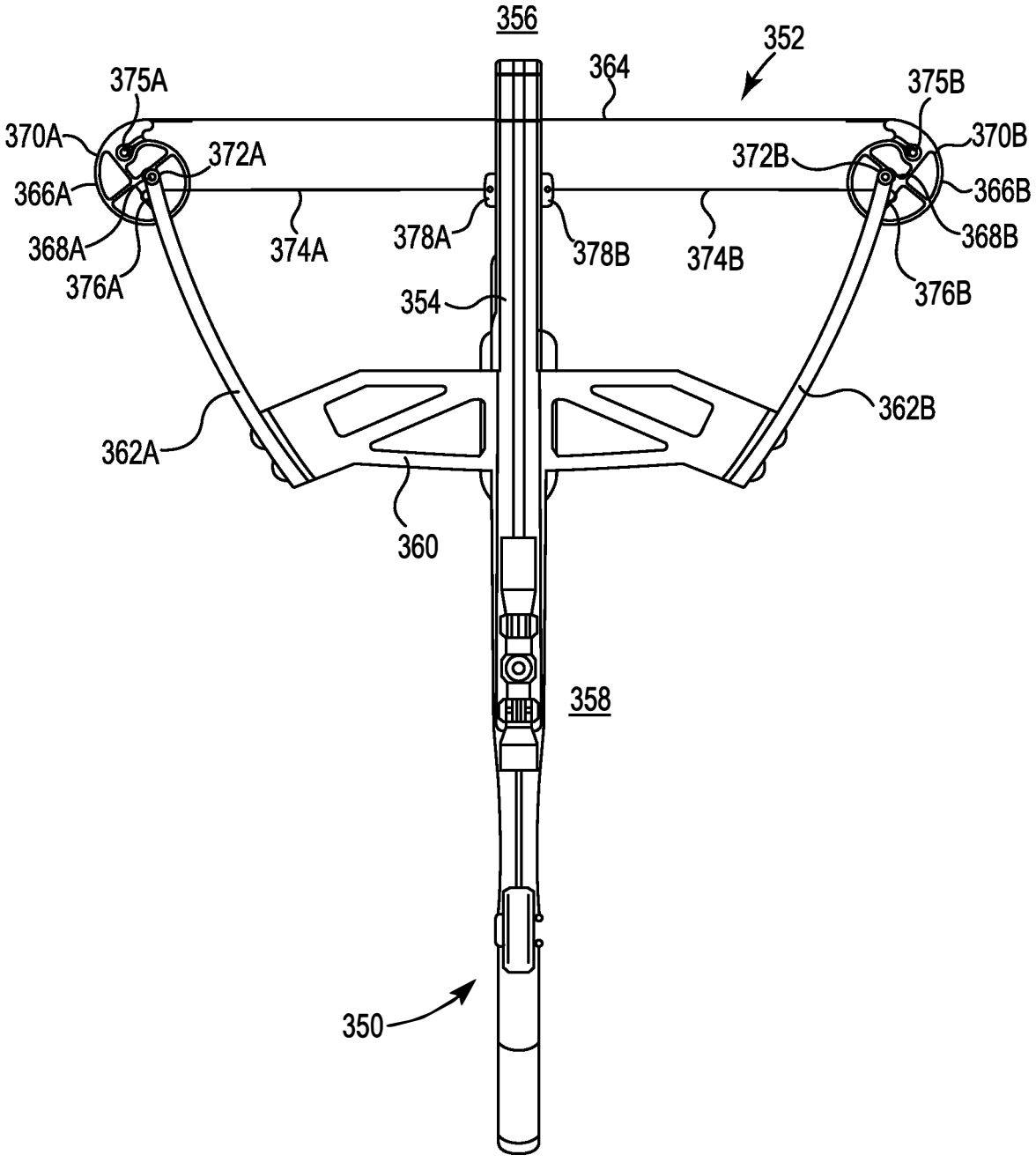

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Fig. 12

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	STRING GUIDE SYSTEM FOR A BOW
First Named Inventor/Applicant Name:	CRAIG THOMAS YEHLE
Filer:	Karl G. Schwappach/Kathy Prestidge
Attorney Docket Number:	49398/4600

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	70	70
Utility Search Fee	2111	1	300	300
Utility Examination Fee	2311	1	360	360
Pages:				
Claims:				
Claims in excess of 20	2202	3	40	120
Independent Claims in Excess of 3	2201	1	210	210
Miscellaneous-Filing:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**1060**

Electronic Acknowledgement Receipt

EFS ID:	17665736
Application Number:	14107058
International Application Number:	
Confirmation Number:	5994
Title of Invention:	STRING GUIDE SYSTEM FOR A BOW
First Named Inventor/Applicant Name:	CRAIG THOMAS YEHLE
Customer Number:	32642
Filer:	Karl G. Schwappach/Kathy Prestidge
Filer Authorized By:	Karl G. Schwappach
Attorney Docket Number:	49398/4600
Receipt Date:	16-DEC-2013
Filing Date:	
Time Stamp:	12:34:42
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$1060
RAM confirmation Number	11783
Deposit Account	502375
Authorized User	SCHWAPPACH, KARL G.

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Warnings:					
Information:					
2	Transmittal of New Application	PatentAppTransmitttal.pdf	613630 0a7e7f69eaf6668df1944b90c0479428aca29d7b	no	2
Warnings:					
Information:					
3	Application Data Sheet	ADS1.pdf	488355 fafaf89d077ffad6c08c7cc412c03912f4191ee1	no	6
Warnings:					
Information:					
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4	Assignee showing of ownership per 37 CFR 3.73.	373c.pdf	1115788 a9e5953998bf2e88db1ab9f1fbb26f2ec0287890	no	5
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Information:					
5	Oath or Declaration filed	Declaration.pdf	561325 d5f3441a4cc21dd84ef39cfe1c128a25bc77e4d6	no	2
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Information:					
6	Power of Attorney	POA.pdf	2155493 4893b8f96c01ef020082a1c408857c37ab72ebc9	no	2
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7		Specification.pdf	481319 f9d9886652b28ffd3f7702d2de1e2aabab428f6d	yes	18

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**

	Specification		1		11
	Claims		12		17
	Abstract		18		18
Warnings:					
Information:					
8	Drawings-only black and white line drawings	Drawings.pdf	777978 f33de88b6efdc4310dfc9e4d85249ef24baa584b	no	12
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National Stage of an International Application under 35 U.S.C. 371
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New International Application Filed with the USPTO as a Receiving Office
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CERTIFICATE OF EFS TRANSMISSION				
Applicant: Craig Thomas Yehle				**Docket No.: 49398/4600**
Application No.:	**Filing Date:** 12/16/2013	**Examiner:**	**Group Art Unit:**	**Confirmation No.**

Invention: STRING GUIDE SYSTEM FOR A BOW

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- Statement Under 37 CFR 3.73(c) (5 pgs)
- Combined Declaration and Power of Attorney for Patent Application (2 pgs)
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- Specification (18 pgs)
- Drawings (12 pgs)

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Signature: /Karl G. Schwappach/ **Dated: December 16, 2013**

Printed Name: Karl G. Schwappach

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Kathy Prestidge