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14 *Attorneys for Plaintiff RAVIN CROSSBOWS, LLC*

15 **UNITED STATES DISTRICT COURT**
 16 **DISTRICT OF NEVADA**

17 RAVIN CROSSBOWS, LLC,

18 Plaintiff,

19 v.

20 HUNTER'S MANUFACTURING
 21 COMPANY, INC. d/b/a TENPOINT
 22 CROSSBOW TECHNOLOGIES,

23 Defendant.

Case No. 2:21-cv-02213

COMPLAINT

JURY DEMAND

1 December 12, 2021)).

2 5. Venue is proper in the District of Nevada pursuant to 28 U.S.C. §§ 1391 and 1400
3 because TenPoint is incorporated under the laws of Nevada in this District, and therefore resides
4 in this District. Further, TenPoint has committed acts of infringement within this District.

5 **PATENTS-IN-SUIT**

6 6. On May 31, 2016, the U.S. Patent and Trademark Office duly and legally issued
7 U.S. Patent No. 9,354,015 (“the ’015 Patent”), titled “String Guide System for a Bow.” A true and
8 accurate copy of the ’015 Patent is attached hereto as Exhibit 1. Ravin is the assignee of the ’015
9 Patent.

10 7. On November 15, 2016, the U.S. Patent and Trademark Office duly and legally
11 issued U.S. Patent No. 9,494,379 (“the ’379 Patent”), titled “Crossbow.” On November 8, 2018,
12 and as amended on December 26, 2018, Ravin filed a Request for Certificate of Correction
13 Pursuant to 37 C.F.R. § 1.323 with the U.S. Patent and Trademark Office to correct minor
14 typographical and clerical errors. Ravin proposed, and the U.S. Patent and Trademark Office
15 adopted, certain corrections, which are not subject to reasonable debate based on consideration of
16 the claim language, the specification, and the prosecution history. These corrections neither
17 constitute new matter nor require reexamination. The Certificate of Correction issued on January
18 1, 2019. Because this Certificate of Correction issued with a typographical error relating to the
19 location of the corrections, on January 16, 2019, Ravin filed a Request for Superseding Certificate
20 of Correction, which was issued on May 14, 2019. A true and accurate copy of the ’379 Patent,
21 including the original and superseding Certificates of Correction, is attached hereto as Exhibit 2.
22 Ravin is the assignee of the ’379 Patent.

23 8. On January 30, 2018, the U.S. Patent and Trademark Office duly and legally issued
24 U.S. Patent No. 9,879,936 (“the ’936 Patent”), titled “String Guide for a Bow.” On November 8,
25 2018, Ravin filed a Request for Certificate of Correction Pursuant to 37 C.F.R. § 1.323 with the
26 U.S. Patent and Trademark Office to correct minor typographical and clerical errors. Ravin
27 proposed, and the U.S. Patent and Trademark Office adopted, certain corrections, which are not

1 subject to reasonable debate based on consideration of the claim language, the specification, and
2 the prosecution history. These corrections neither constitute new matter nor require
3 reexamination. The Certificate of Correction issued on December 11, 2018. Because this
4 Certificate of Correction issued with a typographical error relating to the location of the
5 corrections, on February 20, 2019, Ravin filed a Request for Superseding Certificate of Correction,
6 which was issued on April 30, 2019. A true and accurate copy of the '936 Patent, including the
7 original and superseding Certificates of Correction, is attached hereto as Exhibit 3. Ravin is the
8 assignee of the '936 Patent.

9 9. On April 9, 2019, the U.S. Patent and Trademark Office duly and legally issued
10 U.S. Patent No. 10,254,073 (“the '073 Patent”), titled “Crossbow.” A true and accurate copy of
11 the '073 Patent is attached hereto as Exhibit 4. Ravin is the assignee of the '073 Patent.

12 10. On July 14, 2020, the U.S. Patent and Trademark Office duly and legally issued
13 U.S. Patent No. 10,712,118 (“the '118 Patent”), titled “Crossbow.” A true and accurate copy of
14 the '118 Patent is attached hereto as Exhibit 5. Ravin is the assignee of the '118 Patent.

15 11. On August 10, 2021, the U.S. Patent and Trademark Office duly and legally issued
16 U.S. Patent No. 11,085,728 (“the '728 Patent”), titled “Crossbow with Cabling System.” On
17 October 4, 2021, Ravin filled a Request for Certificate of Correction Pursuant to 37 C.F.R.
18 § 1.323 with the U.S. Patent and Trademark Office to correct minor typographical and clerical
19 errors. Ravin proposed, and the U.S. Patent and Trademark Office adopted, certain corrections,
20 which are not subject to reasonable debate based on consideration of the claim language, the
21 specification, and the prosecution history. These corrections neither constitute new matter nor
22 require reexamination. The Certificate of Correction issued on November 23, 2021. A true and
23 accurate copy of the '728 Patent, including the Certificate of Correction, is attached hereto as
24 Exhibit 6. Ravin is the assignee of the '728 Patent.

1 **BACKGROUND**

2 **RAVIN’S PATENTED CROSSBOWS**

3 12. Ravin entered the crossbow market in late 2016 as an innovative alternative to
4 established manufacturers. Ravin’s first crossbow—the R9™—was instantly recognized as
5 revolutionary, in large part due to its patented HeliCoil® technology. Ravin followed up this
6 success with the launch of the R15™ crossbow, which quickly received Outdoor Life’s “Editor’s
7 Choice” award for the best new crossbow in 2017, based on its ease of use, speed, and accuracy.
8 The R9™ and R15™ accumulated many other awards, including the 2018 National Rifle
9 Association Golden Bullseye Award as the “Bow of the Year” and the Field and Stream Best of
10 the Best Outdoor Gear 2017 Best Bow award, respectively. (Ex. 13, pp. 1-2 (Editorial, 2018 Bow
11 of the Year: Ravin R9 Crossbow, NRA AM. HUNTER (Apr. 30, 2018),
12 <https://www.americanhunter.org/articles/2018/4/30/2018-bow-of-the-year-ravin-r9-crossbow/>);
13 Ex. 14, pp. 4-5 (Editorial, Best of the Best Outdoor Gear 2017, FIELD & STREAM (Nov. 14,
14 2017), <https://www.fieldandstream.com/2017-best-of-the-best-outdoor-gear/>).

15 13. Today, Ravin’s crossbows continue to break barriers and redefine the industry
16 using Ravin’s patented HeliCoil® technology. For example, in 2020, Ravin’s R29X crossbow
17 became the first crossbow to be operable at 200 yards. (Ex. 15, pp. 1-5 (Editorial, First Ever 200
18 Yard Crossbow – Ravin Crossbows, KIIGNS (Aug. 31, 2020), [https://kiigns.com/blogs/news/first-
19 ever-200-yard-crossbow](https://kiigns.com/blogs/news/first-ever-200-yard-crossbow).) In 2021, Ravin’s R500 series crossbow became the first crossbow to
20 fire at a velocity of 500 feet per second (fps). (Ex. 16, p. 2 (Mark Demko, First to 500: New Ravin
21 Lineup Sets Crossbow Speed Mark, BOWHUNTING MAGAZINE (Jan. 13, 2021),
22 [https://www.bowhuntingmag.com/editorial/first-to-500-new-ravin-lineup-sets-crossbow-speed-
23 mark/387551](https://www.bowhuntingmag.com/editorial/first-to-500-new-ravin-lineup-sets-crossbow-speed-mark/387551).) Ravin’s engineers have consistently innovated to establish new upper limits for
24 crossbow speed and distance that are unmatched in the industry.

25 14. Ravin’s increasing arrow speeds and longer operating distances are achieved using
26 Ravin’s patented HeliCoil™ technology, which has provided a significant improvement over
27 traditional compound crossbows. Traditional compound crossbows, such as the one shown in

1 Figure 3 of the '379 Patent reproduced below, operate by connecting the draw string (blue) to
2 rotating cams (purple) that are positioned at the end of the crossbow's limbs (not shown). Power
3 cables (red) also attach to the rotating cams and are designed to wind in an opposite direction to
4 the bow string. As the draw string is drawn to load the crossbow, the draw string unwinds from
5 draw string journals on the rotating cams. The power cables simultaneously wrap around power
6 cable journals on the cams and deflect the bow limbs, thereby storing energy as the draw string is
7 pulled. When the crossbow is fired, the bow limbs and power cables force the cams to rotate in an
8 opposite direction, which re-wraps the draw string into the draw string journals and adds additional
9 force on the arrow. Potential interference between the portion of the power cables extending
10 between the cams and the raised attachment points (green) that secure the power cables to the cams
11 limit the rotation of the cams. Limits on cam rotation limit the length of the power stroke for the
12 draw string, which reduces the amount of energy storage capacity and arrow speed that can be
13 provided by the crossbow.

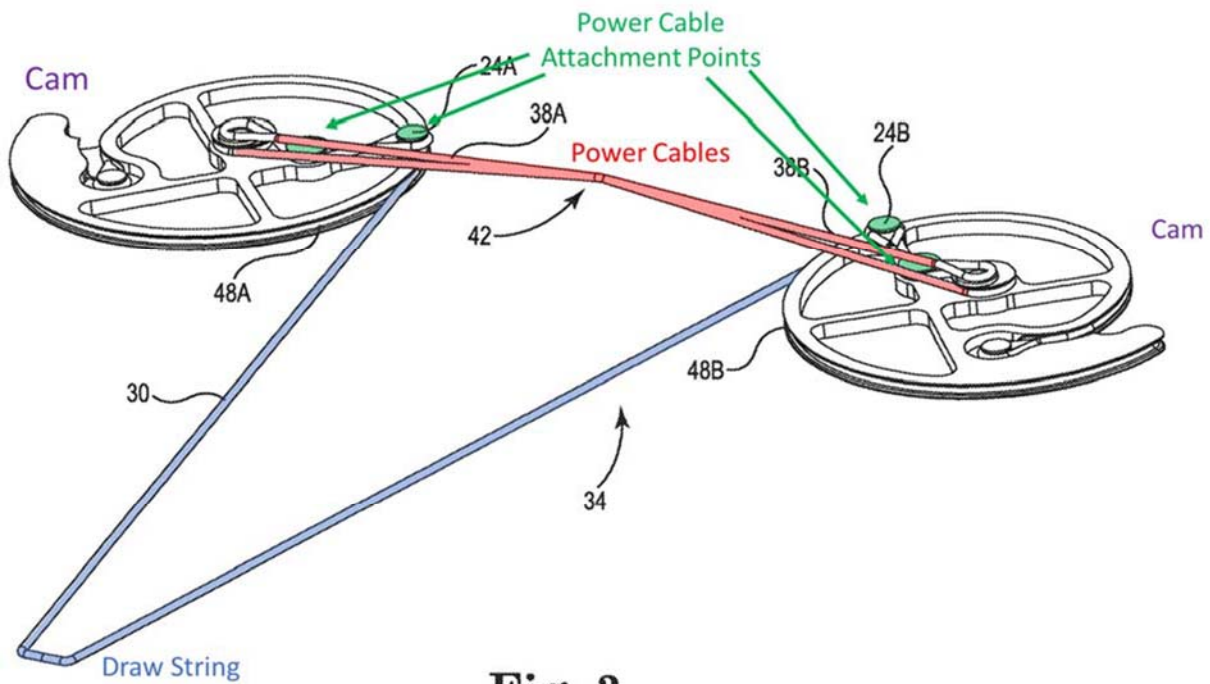


Fig. 3
PRIOR ART

(Ex. 2, p. 4 ('379 Patent at Fig. 3 (annotated)).)

1 15. The solutions in the '015 Patent, the '379 Patent, the '936 Patent, the '073 Patent,
 2 the '118 Patent, and the '728 Patent (collectively, the "Patents-in-Suit") solve this problem in part
 3 using helical power cable journals, an example of which is shown in Figure 7 of the '379 Patent
 4 reproduced below. As the draw string (blue) is drawn, the power cables (red) wrap helically
 5 upward, like a coiled spring, around the power cable journals (yellow). This configuration
 6 displaces a portion of the power cables vertically away from the cams and allows the raised
 7 attachment points (green) on the cams to pass under (for the upper power cable) or above (for the
 8 lower power cable, shown in Figure 24C of the '379 Patent reproduced below) the power cables,
 9 which in turn allows the cams to rotate more than 270 degrees. This configuration allows for a
 10 longer power stroke and greater energy storage in the limbs, resulting in higher arrow speeds. The
 11 symmetrical orientation of the upper and lower power cables also dramatically reduces deflection
 12 of the cams (*i.e.*, "cam lean") compared to traditional crossbows having only lower power cables,
 13 which greatly improves long-range accuracy relative to conventional crossbows.

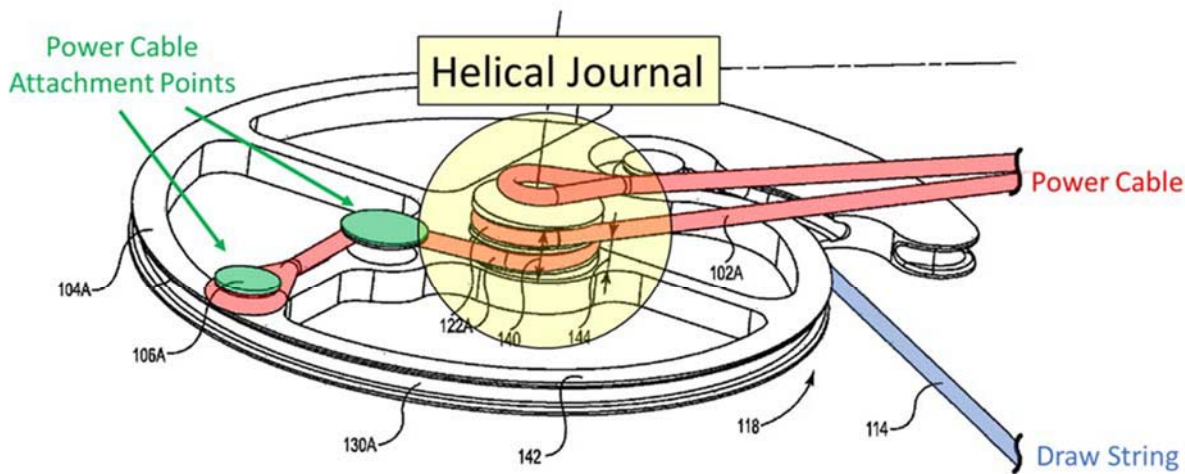


Fig. 7

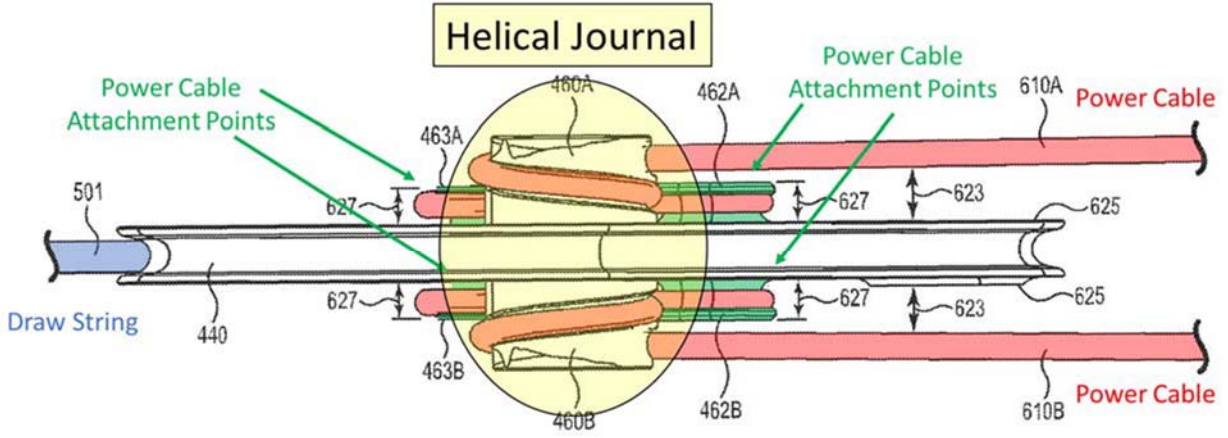


Fig. 24C

(Id. at pp. 7, 43

(annotated).)

The advertisement is titled 'the HELICOIL™ difference'. It compares the Helicoil crossbow to 'Other Crossbows'. The Helicoil section highlights three key features: 1) 'Arrow is free floating with zero rail friction' which 'Increasing speed and accuracy'; 2) 'String is perfectly level with zero rail friction' which 'Vastly improving string life'; and 3) 'Coiling cables for perfectly balanced limbs' which 'Increasing your accuracy'. A 'Front View Of Crossbow' shows the arrow in flight. The 'Other Crossbows' section highlights three negative features: 1) 'Arrow rides on the rail creating 100% friction' which 'Decreasing speed and accuracy'; 2) 'String rides on the rail creating 100% friction' which 'Vastly reducing string life'; and 3) 'Crossing cables run thru the rail creating 100% friction' which 'Decreasing speed and accuracy'. A 'Front View Of Crossbow' shows the arrow in flight. The Helicoil section also mentions 'Perfectly level cams Throughout shot cycle increasing accuracy'.

(Ex. 17, p. 4 (Ravin Crossbows, <https://ravincrossbows.com/home-3/> (last visited August 13,

2021)).)

1 16. HeliCoil® technology is implemented on nearly all of Ravin’s crossbows. Ravin’s
2 HeliCoil® technology has allowed its crossbows to achieve superior performance compared with
3 TenPoint’s crossbows. For example, when Ravin’s R15™ crossbow was released, it weighed less
4 than 8 pounds and was rated for firing arrows with a speed of 434 fps. (Ex. 14, pp. 4-5 (Editorial,
5 Best of the Best Outdoor Gear 2017, FIELD & STREAM (Nov. 14, 2017),
6 <https://www.fieldandstream.com/2017-best-of-the-best-outdoor-gear>.) This was accomplished
7 with an axle-to-axle width of only 6 inches when cocked. (*Id.*) In contrast, TenPoint’s Carbon
8 Nitro RDX™ crossbow – TenPoint’s most expensive crossbow on the market when the R15™
9 was released – was rated only for 385 fps with an axle-to-axle width of 10 inches at a similar
10 weight. (Ex. 18 (TenPoint Crossbow Comparison, TenPoint Crossbows,
11 [https://web.archive.org/web/20180408181422/https://www.tenpointcrossbows.com/compare-](https://web.archive.org/web/20180408181422/https://www.tenpointcrossbows.com/compare-crossbows/)
12 [crossbows/](https://web.archive.org/web/20180408181422/https://www.tenpointcrossbows.com/compare-crossbows/) (last visited December 12, 2021)).) As a result, Ravin’s ability to offer superior
13 crossbow performance has allowed Ravin to gain significant market share from TenPoint since
14 entering the market.

15 17. Ravin’s innovations, including its HeliCoil® technology, have been recognized by
16 the U.S. Patent and Trademark Office as evidenced by the Patents-in-Suit, in addition to several
17 additional U.S. Patents not asserted in this action.

18 18. Ravin’s website provides a list of issued patents and pending patent applications
19 that are associated with Ravin’s products. One or more of the Patents-in-Suit have been listed
20 herein at least as early as August 22, 2017. (Ex. 19 (Patents and Patents Pending, Ravin
21 Crossbows, <https://ravincrossbows.com/patents/> (last visited December 16, 2021)).)

22 19. Ravin’s success depends in part on its ability to continuously protect the inventions
23 that it has developed and patented, including the innovations claimed in the Patents-in-Suit.

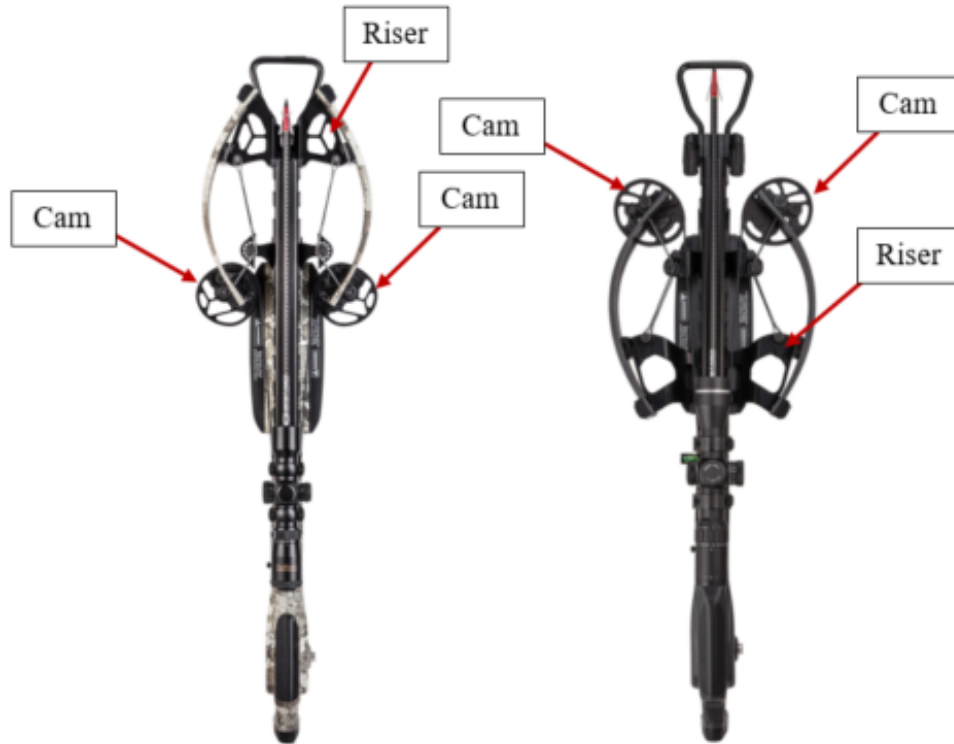
24 **DEFENDANT TENPOINT’S INFRINGING PRODUCTS**

25 20. TenPoint has used and continues to use Ravin’s patented inventions in TenPoint
26 products without the permission of Ravin. Without license, TenPoint has used Ravin’s inventions
27 to improve the performance of TenPoint’s products and has relied on Ravin’s inventions in its

1 promotional and marketing materials to sell its products.

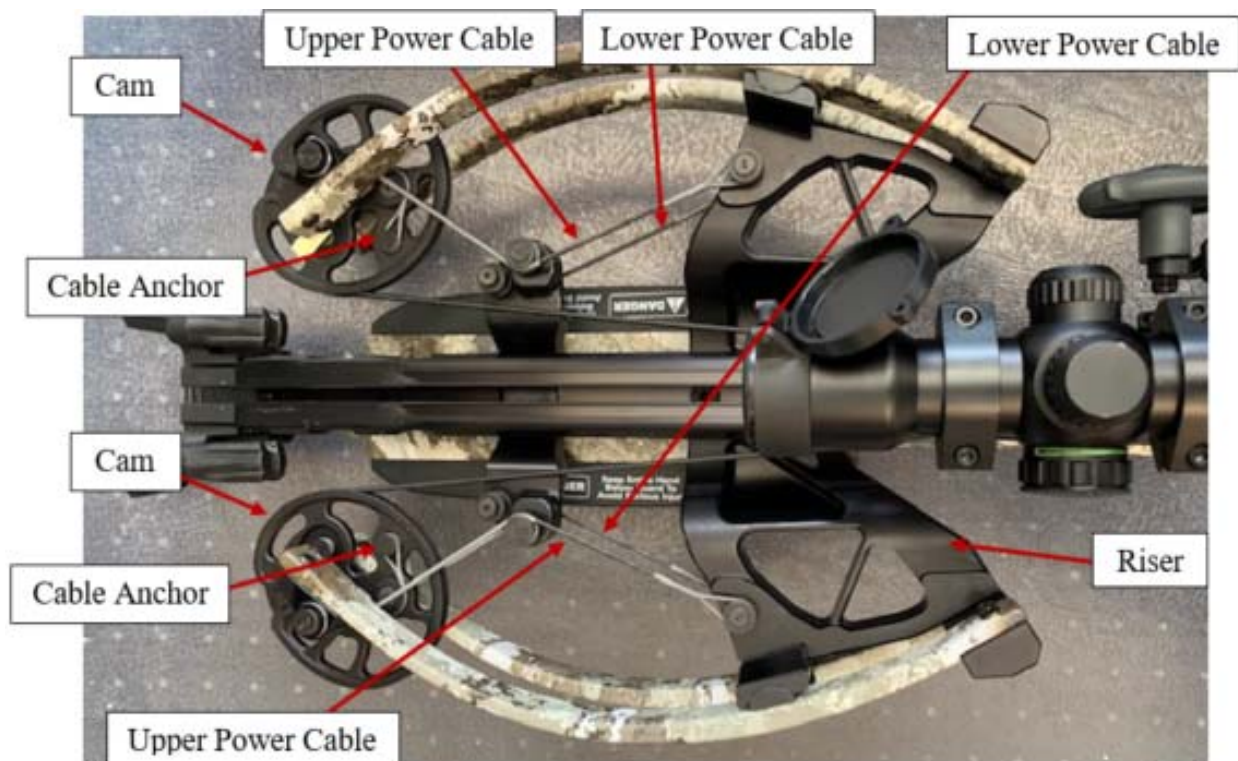
2 21. TenPoint imports, manufactures, sells, and offers for sale in the United States
3 infringing crossbows including at least the Nitro 505 Xero, Nitro 505 Oracle X, Nitro 505, Vapor
4 RS470 Xero, Vapor RS470, Havoc RS440 Xero, Havoc RS440, Vengent S440, Siege RS410,
5 Viper S400 Oracle X, Viper S400, Wicked Ridge NXT 400, NXT 400, Turbo S1, Stealth NXT,
6 Shadow NXT, Nitro XRT, Nitro X, and XR-410 (collectively, the “Infringing Crossbows”).
7 TenPoint’s development of the Infringing Crossbows was a direct response to the release of
8 Ravin’s revolutionary R9™ and R15™ crossbows. On information and belief, TenPoint does not
9 offer a single crossbow model under its brands that can exceed 400 fps without the use of Ravin’s
10 patented HeliCoil® technology.

11 22. More specifically, the Infringing Crossbows each include flexible limbs that are
12 secured to a riser that extends away from a barrel. The flexible limbs are arranged into two pairs,
13 and each pair of flexible limbs supports a cam. Each cam is secured between a pair of flexible
14 limbs using an axle that extends between the two flexible limbs. The cams rotate about the axle
15 when the draw string, which is secured to each of the cams, is drawn. (Ex. 20 (Crossbows,
16 TenPoint, <https://www.tenpointcrossbows.com/product-category/crossbows/> (last visited
17 December 12, 2021)).)

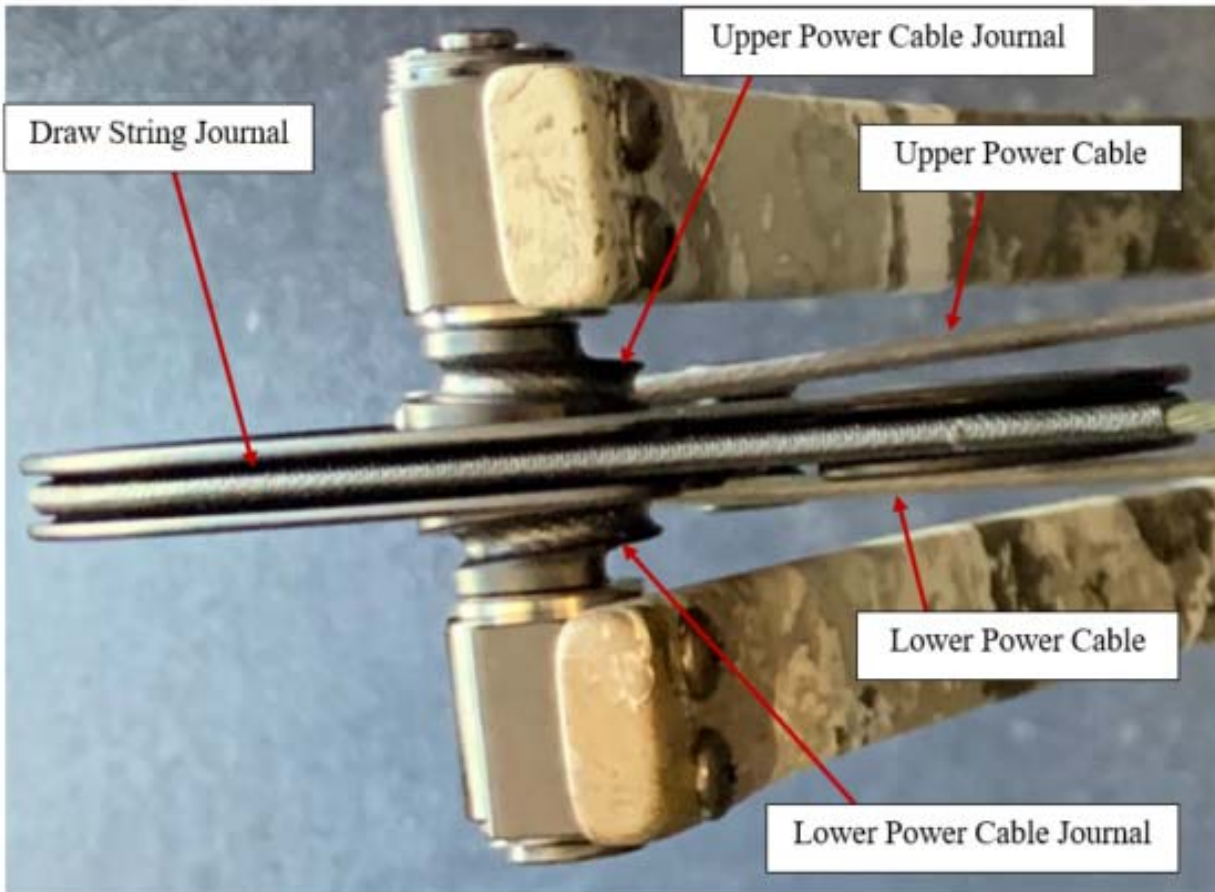


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14 The Infringing Crossbows include both forward draw crossbows and reverse draw crossbows.
15 Forward draw crossbows, such as the TenPoint Vengent S440 crossbow (shown left), have cams
16 that are mounted to the flexible limbs behind the riser. Reverse draw crossbows, such as the Vapor
17 RS470 crossbow (shown right) include cams that are mounted to the flexible limbs in front of the
18 riser. (Ex. 21 (Vengent S440, TenPoint, [https://www.tenpointcrossbows.com /product/vengent-
19 s440/](https://www.tenpointcrossbows.com/product/vengent-s440/) (last visited December 12, 2021) (annotated)), Ex. 22 (Vapor RS470, TenPoint,
20 <https://www.tenpointcrossbows.com/product/vapor-rs470/> (last visited December 12, 2021)
21 (annotated)).)

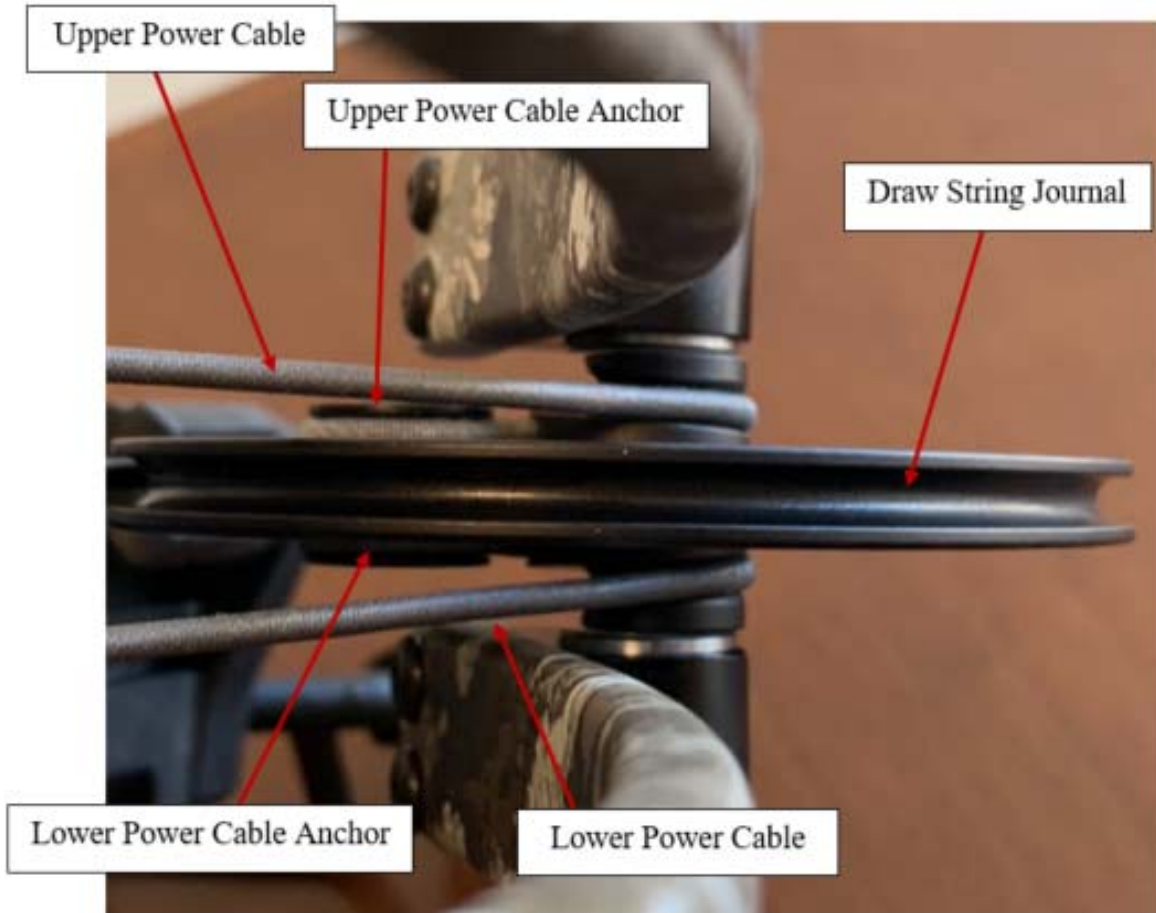
22 23. Each of the Infringing Crossbows include TenPoint’s “Vector Quad Cable
23 Technology,” which utilizes Ravin’s patented HeliCoil® system. For example, as depicted below
24 in TenPoint’s Siege RS410 Crossbow, TenPoint’s “Vector Quad Cable Technology” includes four
25 power cables. One end of each power cable is attached to a static terminal on the riser. The other
26 end of each power cable is anchored to either the top or bottom of one of the cams.
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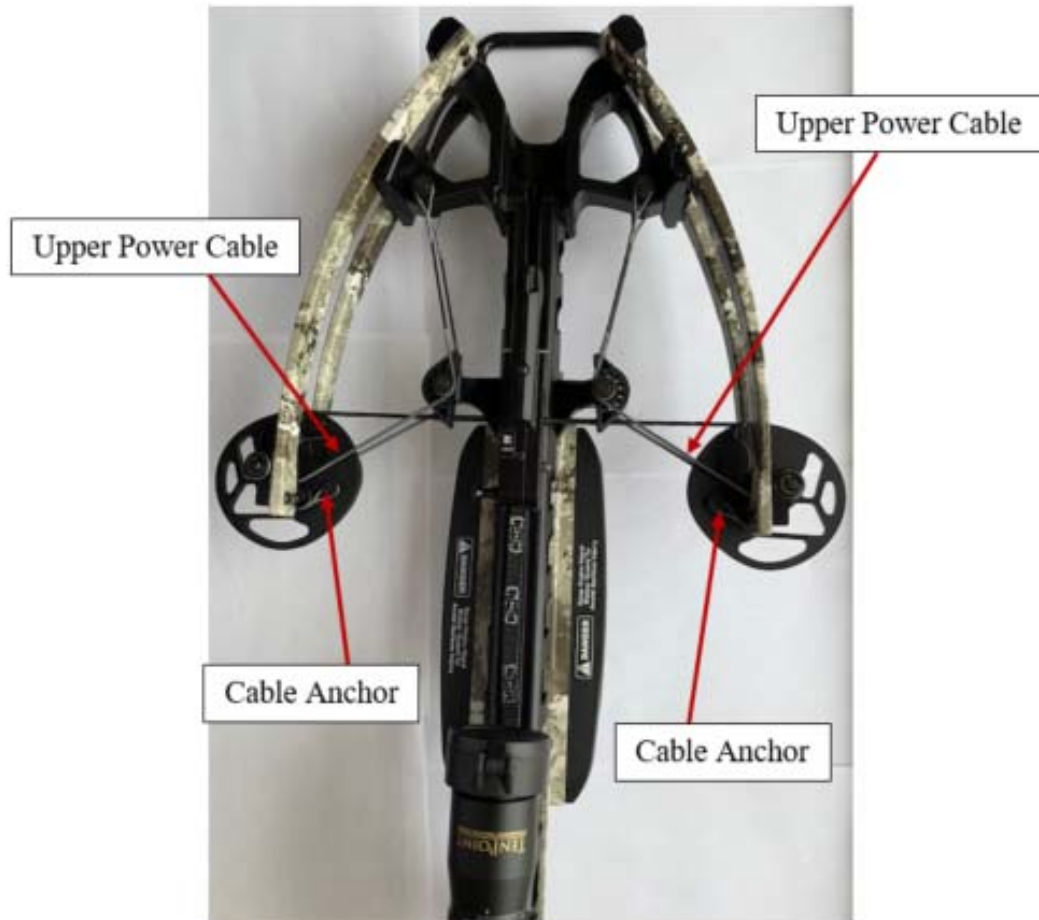
24. Each of the cams on the Infringing Crossbows are arranged so that when the draw string is drawn, each of the power cables are wound into helical power cable journals that are formed within each cam. The helical power cable journals wrap around the top and bottom of each cam and extend vertically away from the draw string journal. As depicted below in the TenPoint Siege RS410 Crossbow, each cam includes a helical power cable journal that displaces the power cables away from the draw string journal as power cable is wound into the respective helical power cable journals.



25. As the power cables wrap into the power cable journals, the power cables are displaced vertically away from the draw string journal. The vertical displacement of the power cables away from the draw string journal creates space between the power cables and the upper and lower surfaces of the cam. The spacing between the power cables and the upper and lower surfaces of the cam allows the power cable anchors to pass above (or beneath) the power cable, which allows each of the cams to rotate in excess of 270 degrees between the drawn and released positions.

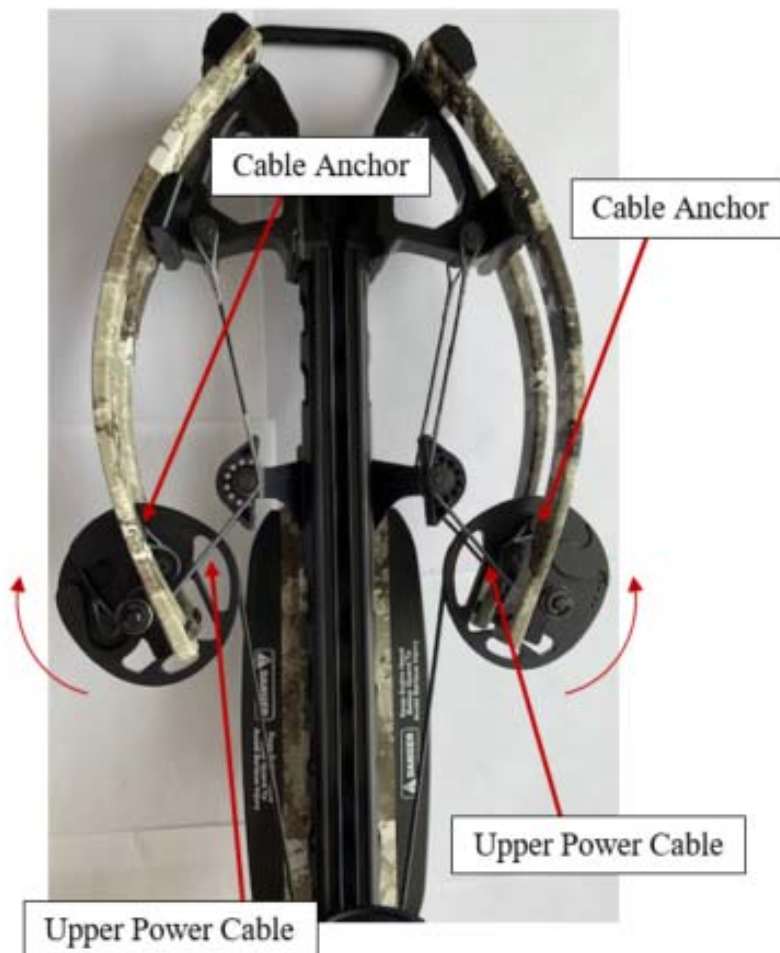


26. For example, the TenPoint Vengent S440 crossbow is a forward draw crossbow. Upon information and belief, the Vengent is one of TenPoint's fastest-rated forward draw bows, advertising arrow speeds of up to 440 fps. The Vengent includes "Vector Quad Cable Technology," which enables an advertised cam rotation of 360 degrees. (Ex. 23, p. 2 (NEW TenPoint Vengent S440 Crossbow, YouTube, https://youtu.be/v0ncvTb_PdM (last visited December 12, 2021)).) The crossbow cocking process for the Vengent is depicted below.



(Vengent, released configuration.)

27. When the Vengent is in the released configuration (shown above), each of the power cable anchors are positioned behind the upper power cables. The upper power cables are not received within the helical power cable journals when the Vengent is in the released configuration.

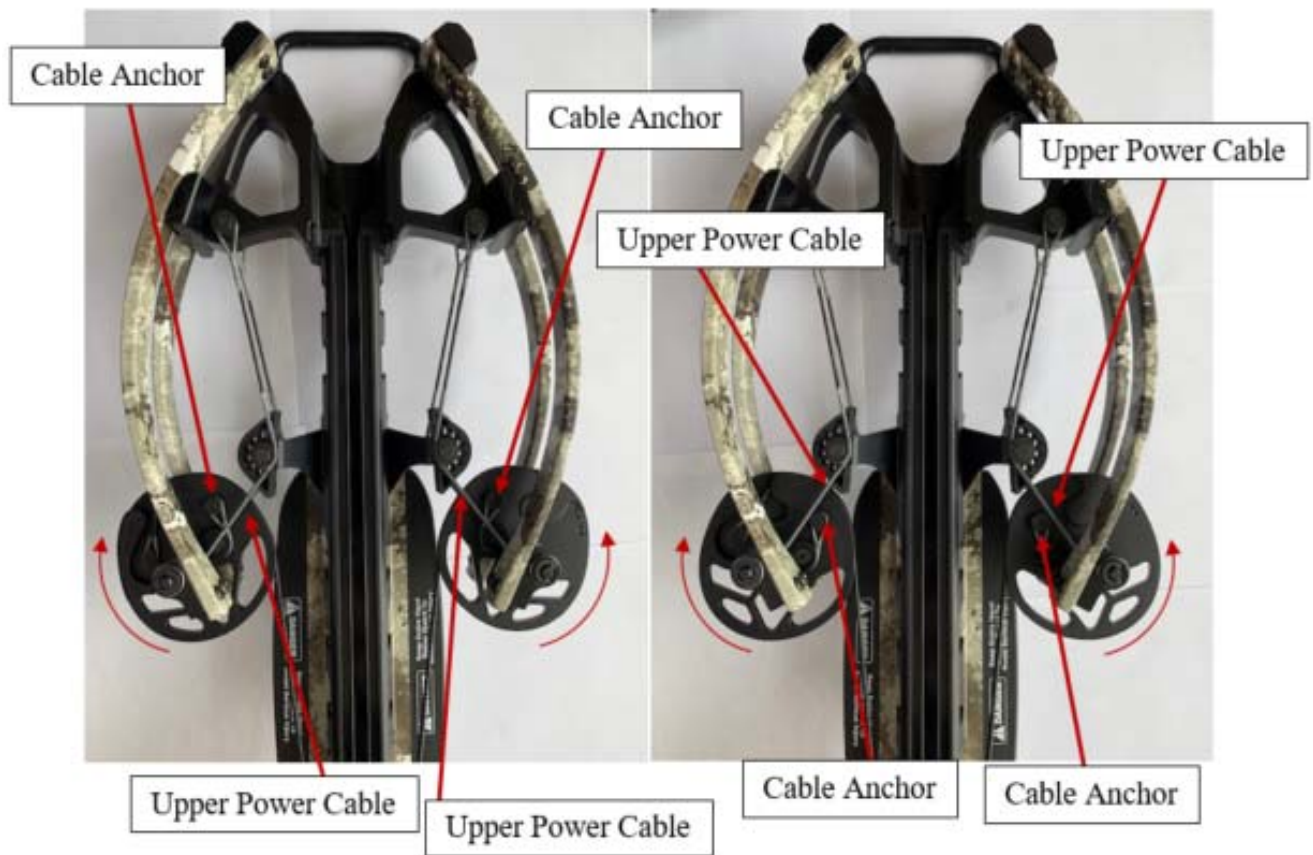


(Vengent, partially drawn.)

28. As the draw string is drawn, the unwinding of the draw string from the draw string journals rotates each of the cams. Rotation of the cams, as depicted above, rotates the cable anchors that are formed on the cams. Rotation of the cams also wraps the upper and lower power cables into their respective helical power cable journals formed within the cams.

29. As the cams rotate and the upper power cables are wrapped into their respective helical power cable journals, the upper power cables are displaced away from the upper surface of the cam. The vertical spacing created between the upper surface of the cam and the upper power cables can then allow the cable anchors to pass or cross beneath the upper power cables, which allows additional rotation of the cams. Likewise, the lower power cables are displaced away from

1 the lower surface of the cam, such that cable anchors can pass or cross above the lower power
2 cables.



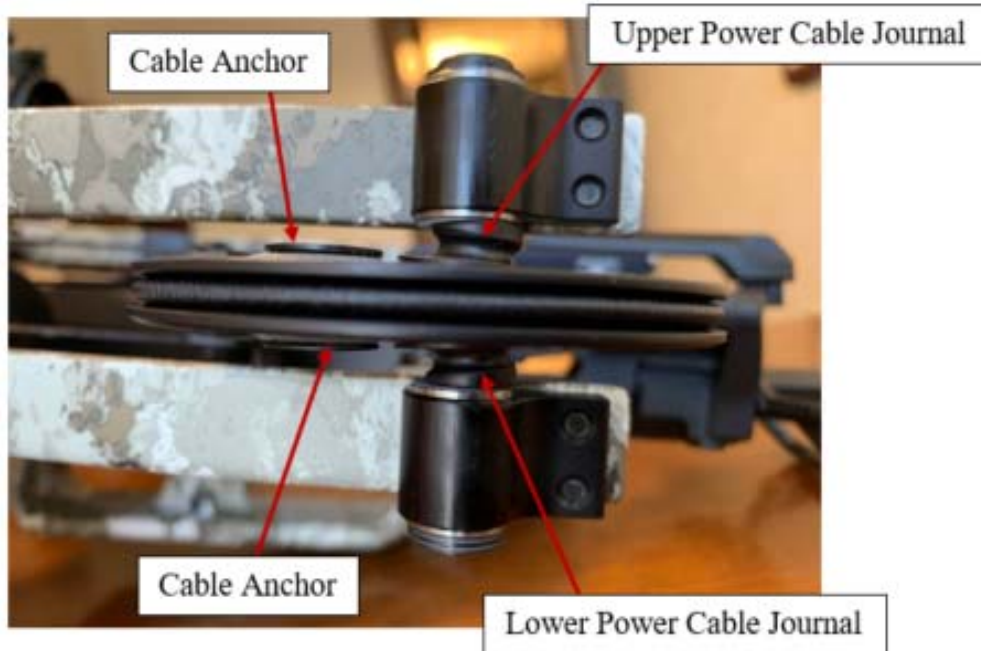
17 (Vengent, partially drawn (left) and Vengent, fully drawn (right).)

18 30. As the draw string of the Vengent transitions to the fully cocked and drawn position,
19 the upper cable anchors pass beneath the upper power cables to complete a full 360 degree rotation.
20 Similarly, the lower cable anchors pass above the lower power cables. The helical power cable
21 journals enable the cable anchors to pass beneath the upper power cables and above the lower
22 power cables, respectively. Without raising the upper power cables away from the upper surface
23 of the cam and lowering the lower power cables away from the lower surface of the cam, which is
24 accomplished using the helical power cable journals, the upper power cables and lower power
25 cables would interfere with the cable anchors formed on the cams. This interference would limit
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1 the rotation of the cam, which would in turn limit the length of the power stroke that can be used
2 on the crossbow, which would in turn limit the amount of energy that can be stored within the
3 crossbow. Reducing the amount of energy storage within the crossbow would reduce performance,
4 including rated arrow speeds.

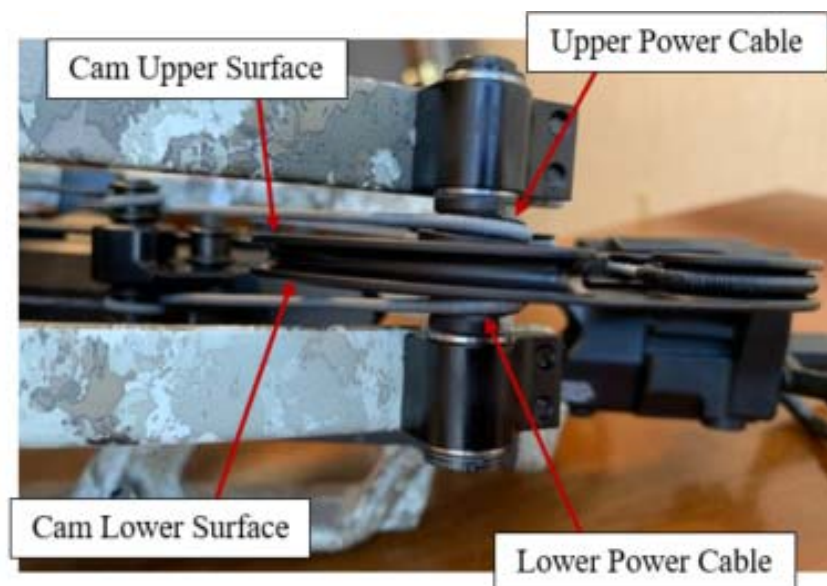
5 31. TenPoint’s reverse draw crossbows also use “Vector Quad Cable Technology.”
6 The TenPoint Siege S410 crossbow is an exemplary reverse draw crossbow. The Siege has a listed
7 maximum arrow speed of 410 fps. The Siege includes “Vector Quad Cable Technology,” which
8 “utilizes four independent cables to keep the cams perfectly level, leading to straight nock travel
9 and precision down range accuracy.” (Ex. 24, pp. 10-13 (TenPoint NEW Siege RS410 Crossbow
10 Review, YouTube, https://youtu.be/_NDmU3AFecU (last visited December 12, 2021)).)

12 32. As depicted below, each of the cams on the Siege include helical power cable
13 journals that direct the power cables away from the upper and lower surfaces of the cam as the
14 draw string is drawn. The helical power cable journal extends vertically away from one of the
15 upper or lower surface of the cam to a height above or below the power cable anchors.
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12 (Siege, in the fully-released position.)

13 33. When the draw string of the Siege is drawn, the upper and lower power cables are
14 wound up into the upper and lower helical power cable journals, which displaces the upper and
15 lower power cables away from the upper and lower surfaces of the cam.



(Siege, in the fully-drawn position.)

1 34. As the draw string of the Siege transitions to the fully cocked and drawn position,
2 the power cables are displaced away from the upper and lower surfaces of the cam. The
3 displacement of the power cables away from the upper and lower surfaces of the cam permits the
4 cable anchors to pass beneath and above the upper and lower power cables, allowing additional
5 rotation of the cams and additional energy storage as compared to conventional crossbows.
6 Reverse draw crossbows, like the Siege, are configured to have a longer power stroke than forward
7 draw crossbows, such that cam rotations greater than 270 degrees are advantageous. Different
8 reverse draw crossbows within the Infringing Crossbows advertise cam rotations of as high as 404
9 degrees, which are only made possible using Ravin's patented HeliCoil® technology. (Ex. 25, p.
10 7 (NEW TenPoint Vapor RS470 Crossbow with 100-yard EVO-X Marksman Elite Scope,
11 YouTube, <https://youtu.be/SyZYhOvoBHg> (last visited December 12, 2021)).)

12 35. On information and belief, TenPoint was aware of Ravin's patented HeliCoil®
13 technology and one or more of the Patents-in-Suit when developing the Infringing Crossbows, at
14 least due to its position as a licensing partner with Ravin on unrelated technology, its
15 communications with Ravin's representatives, its access to information regarding Ravin's
16 crossbows at trade shows and online, and Ravin's constructive notice and virtual patent marking
17 of its crossbows.

18 36. On July 15, 2017, Ravin's representative sent an email to TenPoint's representative
19 that included, as an attachment, a listing of patents that protected Ravin's crossbows, including,
20 among others, at least two of the Patents-in-Suit. Additionally, on November 27, 2017, TenPoint's
21 representative contacted Ravin's representative seeking a potential license to Ravin's helical cam
22 patents, which correspond to Ravin's HeliCoil® technology.

23 37. Ravin did not grant and TenPoint did not receive nor does it have a license to any
24 of Ravin's HeliCoil® technology, including the Patents-in-Suit.

25 38. On information and belief, TenPoint's "Vector Quad Cable Technology" willfully
26 copied Ravin's patented HeliCoil® technology. TenPoint released the Infringing Crossbows with
27 the "Vector Quad Cable Technology" only after Ravin's R9™ and R15™ were introduced and

1 threatened TenPoint’s market position and profitability. The striking similarities between the
2 Infringing Crossbows and Ravin’s groundbreaking HeliCoil® technology highlight that TenPoint
3 designed the Infringing Crossbows – including the “Vector Quad Cable Technology” –specifically
4 to incorporate Ravin’s patented HeliCoil® technology, as claimed in the Patents-in-Suit. On
5 information and belief, TenPoint’s development of the Infringing Crossbows was deliberately
6 calculated to undermine the commercial success of Ravin’s R9™ and R15™ crossbows as well as
7 Ravin’s subsequent product offerings, which implement Ravin’s patented HeliCoil™ technology.

8 39. On information and belief, TenPoint has never offered for sale or sold a crossbow
9 that has been capable of producing speeds of greater than 400 fps without using “Vector Quad
10 Cable Technology.”

11 **COUNT I**

12 **INFRINGEMENT OF U.S. PATENT NO. 9,354,015**

13 40. Ravin incorporates by reference paragraphs 1 – 39 as if fully set forth herein.

14 41. The ’015 Patent is valid and enforceable.

15 42. TenPoint, directly or through the actions of its employees, divisions, and/or
16 subsidiaries, has infringed and continues to infringe, either literally or under the doctrine of
17 equivalents, at least one of the claims of the ’015 Patent, including but not limited to claim 1, under
18 35 U.S.C. § 271(a) by, among other things, making, importing, using, offering for sale, and selling
19 in the United States at least the following products: Nitro 505 Xero, Nitro 505 Oracle X, Nitro
20 505, Vapor RS470 Xero, Vapor RS470, Havoc RS440 Xero, Havoc RS440, Siege RS410, Nitro
21 XRT, Nitro X, and XR-410.

22 43. Specifically, Exhibit 7 provides a representative example of how the TenPoint
23 Siege and all other similarly configured bows meet each and every claim limitation of claim 1 of
24 the ’015 Patent. Upon information and belief, the infringing functionality of the Siege crossbow
25 is representative of and substantially the same as the infringing functionality of each reverse draw
26 crossbow within the Infringing Crossbows. This demonstration of infringement is offered by way
27 of example only and without limitation to Ravin’s ability to demonstrate Defendant’s infringement

1 of additional claims of the '015 Patent, including by making, importing, using, offering for sale,
2 and selling additional products in the United States.

3 44. Ravin has been and continues to be damaged by Defendant's infringement of the
4 '015 Patent. Ravin is entitled to recovery of monetary damages for such injuries pursuant to 35
5 U.S.C. § 284, in an amount to be determined at trial.

6 45. Defendant has committed the foregoing infringing activities without license from
7 Ravin and, upon information and belief, with knowledge of the '015 Patent.

8 46. Upon information and belief, Defendant knew of the '015 Patent while committing
9 the foregoing infringing acts, thereby willfully, wantonly, and deliberately infringing the '015
10 Patent. Ravin's damages should be trebled pursuant to 35 U.S.C. § 284 because of Defendant's
11 willful infringement of the '015 Patent.

12 47. Upon information and belief, the acts of infringement by Defendant have been
13 performed with the knowledge of the '015 Patent and are willful, wanton, and deliberate, thus
14 rendering this action "exceptional" within the meaning of 35 U.S.C. § 285 and entitling Ravin to
15 its reasonable attorneys' fees and litigation expenses.

16 48. If Defendant's marketing and sales of the Infringing Crossbows are not enjoined,
17 Ravin will suffer substantial and irreparable harm for which there is no remedy at law.

18 **COUNT II**

19 **INFRINGEMENT OF U.S. PATENT NO. 9,494,379**

20 49. Ravin incorporates by reference paragraphs 1 – 39 as if fully set forth herein.

21 50. The '379 Patent is valid and enforceable.

22 51. TenPoint, directly or through the actions of its employees, divisions, and/or
23 subsidiaries, has infringed and continues to infringe, either literally or under the doctrine of
24 equivalents, at least one of the claims of the '379 Patent, including but not limited to claim 1, under
25 35 U.S.C. § 271(a) by, among other things, making, importing, using, offering for sale, and selling
26 in the United States the following products: Nitro 505 Xero, Nitro 505 Oracle X, Nitro 505, Vapor
27 RS470 Xero, Vapor RS470, Havoc RS440 Xero, Havoc RS440, Vengent S440, Siege RS410,

1 Viper S400 Oracle X, Viper S400, Wicked Ridge NXT 400, NXT 400, Turbo S1, Stealth NXT,
2 Shadow NXT, Nitro XRT, Nitro X, and XR-410.

3 52. Specifically, Exhibit 8 provides a representative example of how the TenPoint
4 Vengent and all other similarly configured bows meet each and every claim limitation of claim 1
5 of the '379 Patent. Upon information and belief, the infringing functionality of the Vengent
6 crossbow is representative of and substantially the same as the infringing functionality of each
7 forward draw and reverse draw crossbow within the Infringing Crossbows. This demonstration of
8 infringement is offered by way of example only and without limitation to Ravin's ability to
9 demonstrate Defendant's infringement of additional claims of the '379 Patent, including by
10 making, importing, using, offering for sale, and selling additional products in the United States.

11 53. Ravin has been and continues to be damaged by Defendant's infringement of the
12 '379 Patent. Ravin is entitled to recovery of monetary damages for such injuries pursuant to 35
13 U.S.C. § 284, in an amount to be determined at trial.

14 54. Defendant has committed the foregoing infringing activities without license from
15 Ravin and, upon information and belief, with knowledge of the '379 Patent.

16 55. Upon information and belief, Defendant knew of the '379 Patent while
17 committing the foregoing infringing acts, thereby willfully, wantonly, and deliberately infringing
18 the '379 Patent. Ravin's damages should be trebled pursuant to 35 U.S.C. § 284 because of
19 Defendant's willful infringement of the '379 Patent.

20 56. Upon information and belief, the acts of infringement by Defendant have been
21 performed with the knowledge of the '379 Patent and are willful, wanton, and deliberate, thus
22 rendering this action "exceptional" within the meaning of 35 U.S.C. § 285 and entitling Ravin to
23 its reasonable attorneys' fees and litigation expenses.

24 57. If Defendant's marketing and sales of the Infringing Crossbows are not enjoined,
25 Ravin will suffer substantial and irreparable harm for which there is no remedy at law.

26
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COUNT III

INFRINGEMENT OF U.S. PATENT NO. 9,879,936

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2
3 58. Ravin incorporates by reference paragraphs 1 – 39 as if fully set forth herein.

4 59. The '936 Patent is valid and enforceable.

5
6 60. TenPoint, directly or through the actions of its employees, divisions, and/or
7 subsidiaries, has infringed and continues to infringe, either literally or under the doctrine of
8 equivalents, at least one of the claims of the '936 Patent, including but not limited to claim 1, under
9 35 U.S.C. § 271(a) by, among other things, making, importing, using, offering for sale, and selling
10 in the United States the following products: Nitro 505 Xero, Nitro 505 Oracle X, Nitro 505, Vapor
11 RS470 Xero, Vapor RS470, Havoc RS440 Xero, Havoc RS440, Vengent S440, Siege RS410,
12 Viper S400 Oracle X, Viper S400, Wicked Ridge NXT 400, NXT 400, Turbo S1, Stealth NXT,
13 Shadow NXT, Nitro XRT, Nitro X, and XR-410.

14 61. Specifically, Exhibit 9 provides a representative example of how the TenPoint
15 Vengent and all other similarly configured bows meet each and every claim limitation of claim 1
16 of the '936 Patent. Upon information and belief, the infringing functionality of the Vengent
17 crossbow is representative of and substantially the same as the infringing functionality of each
18 forward draw and reverse draw crossbow within the Infringing Crossbows. This demonstration of
19 infringement is offered by way of example only and without limitation to Ravin's ability to
20 demonstrate Defendant's infringement of additional claims of the '936 Patent, including by
21 making, importing, using, offering for sale, and selling additional products in the United States.

22 62. Ravin has been and continues to be damaged by Defendant's infringement of the
23 '936 Patent. Ravin is entitled to recovery of monetary damages for such injuries pursuant to 35
24 U.S.C. § 284, in an amount to be determined at trial.

25 63. Defendant has committed the foregoing infringing activities without license from
26 Ravin and, upon information and belief, with knowledge of the '936 Patent.

1 of additional claims of the '073 Patent, including by making, importing, using, offering for sale,
2 and selling additional products in the United States.

3 71. Ravin has been and continues to be damaged by Defendant's infringement of the
4 '073 Patent. Ravin is entitled to recovery of monetary damages for such injuries pursuant to 35
5 U.S.C. § 284, in an amount to be determined at trial.

6 72. Defendant has committed the foregoing infringing activities without license from
7 Ravin and, upon information and belief, with knowledge of the '073 Patent.

8 73. Upon information and belief, Defendant knew of the '073 Patent while
9 committing the foregoing infringing acts, thereby willfully, wantonly, and deliberately infringing
10 the '073 Patent. Ravin's damages should be trebled pursuant to 35 U.S.C. § 284 because of
11 Defendant's willful infringement of the '073 Patent.

12 74. Upon information and belief, the acts of infringement by Defendant have been
13 performed with the knowledge of the '073 Patent and are willful, wanton, and deliberate, thus
14 rendering this action "exceptional" within the meaning of 35 U.S.C. § 285 and entitling Ravin to
15 its reasonable attorneys' fees and litigation expenses.

16 75. If Defendant's marketing and sales of the Infringing Crossbows are not enjoined,
17 Ravin will suffer substantial and irreparable harm for which there is no remedy at law.

18 **COUNT V**

19 **INFRINGEMENT OF U.S. PATENT NO. 10,712,118**

20 76. Ravin incorporates by reference paragraphs 1 – 39 as if fully set forth herein.

21 77. The '118 Patent is valid and enforceable.

22 78. TenPoint, directly or through the actions of its employees, divisions, and/or
23 subsidiaries, has infringed and continues to infringe, either literally or under the doctrine of
24 equivalents, at least one of the claims of the '118 Patent, including but not limited to claim 1, under
25 35 U.S.C. § 271(a) by, among other things, making, importing, using, offering for sale, and selling
26 in the United States the following products: Nitro 505 Xero, Nitro 505 Oracle X, Nitro 505, Vapor
27

1 RS470 Xero, Vapor RS470, Havoc RS440 Xero, Havoc RS440, Siege RS410, Nitro XRT, Nitro
2 X, and XR-410.

3 79. Specifically, Exhibit 11 provides a representative example of how the TenPoint
4 Siege and all other similarly configured bows meet each and every claim limitation of claim 1 of
5 the '118 Patent. Upon information and belief, the infringing functionality of the Siege crossbow
6 is representative of and substantially the same as the infringing functionality of each reverse draw
7 crossbow within the Infringing Crossbows. This demonstration of infringement is offered by way
8 of example only and without limitation to Ravin's ability to demonstrate Defendant's infringement
9 of additional claims of the '118 Patent, including by making, importing, using, offering for sale,
10 and selling additional products in the United States.

11 80. Ravin has been and continues to be damaged by Defendant's infringement of the
12 '118 Patent. Ravin is entitled to recovery of monetary damages for such injuries pursuant to 35
13 U.S.C. § 284, in an amount to be determined at trial.

14 81. Defendant has committed the foregoing infringing activities without license from
15 Ravin and, upon information and belief, with knowledge of the '118 Patent.

16 82. Upon information and belief, Defendant knew of the '118 Patent while committing
17 the foregoing infringing acts, thereby willfully, wantonly, and deliberately infringing the '118
18 Patent. Ravin's damages should be trebled pursuant to 35 U.S.C. § 284 because of Defendant's
19 willful infringement of the '118 Patent.

20 83. Upon information and belief, the acts of infringement by Defendant have been
21 performed with the knowledge of the '118 Patent and are willful, wanton, and deliberate, thus
22 rendering this action "exceptional" within the meaning of 35 U.S.C. § 285 and entitling Ravin to
23 its reasonable attorneys' fees and litigation expenses.

24 84. If Defendant's marketing and sales of the Infringing Crossbows are not enjoined,
25 Ravin will suffer substantial and irreparable harm for which there is no remedy at law.

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COUNT VI

INFRINGEMENT OF U.S. PATENT NO. 11,085,728

85. Ravin incorporates by reference paragraphs 1 – 39 as if fully set forth herein.

86. The '728 Patent is valid and enforceable.

87. TenPoint, directly or through the actions of its employees, divisions, and/or subsidiaries, has infringed and continues to infringe, either literally or under the doctrine of equivalents, at least one of the claims of the '728 Patent, including but not limited to claim 10, under 35 U.S.C. § 271(a) by, among other things, making, importing, using, offering for sale, and selling in the United States the following products: Nitro 505 Xero, Nitro 505 Oracle X, Nitro 505, Vapor RS470 Xero, Vapor RS470, Havoc RS440 Xero, Havoc RS440, Vengent S440, Siege RS410, Viper S40 Oracle X, Viper S400, Wicked Ridge NXT 400, NXT 400, Turbo S1, Stealth NXT, Shadow NXT, Nitro XRT, Nitro X, and XR-410.

88. Specifically, Exhibit 12 provides a representative example of how the TenPoint Vengent and all other similarly configured bows meet each and every claim limitation of claim 10 of the '728 Patent. Upon information and belief, the infringing functionality of the Vengent crossbow is representative of and substantially the same as the infringing functionality of each forward draw and reverse draw crossbow within the Infringing Crossbows. This demonstration of infringement is offered by way of example only and without limitation to Ravin's ability to demonstrate Defendant's infringement of additional claims of the '728 Patent, including by making, importing, using, offering for sale, and selling additional products in the United States.

89. Ravin has been and continues to be damaged by Defendant's infringement of the '728 Patent. Ravin is entitled to recovery of monetary damages for such injuries pursuant to 35 U.S.C. § 284, in an amount to be determined at trial.

90. Defendant has committed the foregoing infringing activities without license from Ravin and, upon information and belief, with knowledge of the '728 Patent.

91. Upon information and belief, Defendant knew of the '728 Patent while committing the foregoing infringing acts, thereby willfully, wantonly, and deliberately infringing the '728

1 Patent. Ravin's damages should be trebled pursuant to 35 U.S.C. § 284 because of Defendant's
2 willful infringement of the '728 Patent.

3 92. Upon information and belief, the acts of infringement by Defendant have been
4 performed with the knowledge of the '728 Patent and are willful, wanton, and deliberate, thus
5 rendering this action "exceptional" within the meaning of 35 U.S.C. § 285 and entitling Ravin to
6 its reasonable attorneys' fees and litigation expenses.

7 93. If Defendant's marketing and sales of the Infringing Crossbows are not enjoined,
8 Ravin will suffer substantial and irreparable harm for which there is no remedy at law.

9 **PRAYER FOR RELIEF**

10 WHEREFORE, Ravin prays that this Court grant the following relief:

11 a) A judgment that the claims of the Patents-in-Suit are infringed,
12 either literally and/or under the doctrine of equivalents, by Defendant's making,
13 importing, using, offering to sell, and selling the Infringing Crossbows in the
14 United States;

15 b) An Order permanently enjoining Defendant, its affiliates and
16 subsidiaries, and any of their officers, agents, servants, employees, and those
17 acting in privity or concert with them, from making, having made, using, offering
18 to sell, selling, marketing, distributing, and/or importing the Infringing
19 Crossbows or any other product that infringes the Patents-in-Suit;

20 c) An award of compensatory damages and/or other monetary relief,
21 including lost profits, adequate to compensate Ravin for Defendant's
22 infringement of the Patents-in-Suit, but in no event less than a reasonable royalty
23 for the use of the inventions in the Patents-in-Suit by Defendant, together with
24 interest and costs as fixed by the Court and trebled for willful infringement as
25 provided by 35 U.S.C. § 284;

