

KEMP JONES, LLP
Nathanael R. Rulis, Esq.
Nevada Bar No. 11259
Joshua D. Carlson, Esq.
Nevada Bar No. 11781
3800 Howard Hughes Parkway
Seventeenth Floor
Las Vegas, NV 89169
Telephone: (702) 385-6000
Facsimile: (702) 385-6001
n.rulis@kempjones.com
j.carlson@kempjones.com

EMERSON THOMSON BENNETT, LLC
John M. Skeriotis, Esq. (*pro hac vice*)
1914 Akron-Peninsula Road
Akron, OH 44313
Telephone: (330) 434-9999
Facsimile: (330) 434-8888
jms@etblaw.com

*Attorneys for Defendant Hunter's Manufacturing
Company, Inc. d/b/a TenPoint Crossbow Technologies*

**UNITED STATES DISTRICT COURT
DISTRICT OF NEVADA**

RAVIN CROSSBOWS, LLC,

Plaintiff,

v.

HUNTER'S MANUFACTURING
COMPANY, INC. D/B/A TENPOINT
CROSSBOW TECHNOLOGIES,

Defendant.

Case No. 2:21-cv-02213-GMN-EJY

**DEFENDANT'S LPR 1-14 PROPOSED
CONSTRUCTIONS**

Pursuant to LPR 1-14, Defendant Hunter's Manufacturing Company, Inc. d/b/a TenPoint Crossbow Technologies ("TenPoint") provides its proposed constructions of each claim term identified by TenPoint or Plaintiff Ravin Crossbows, LLC ("Ravin") for construction, along with the intrinsic and extrinsic supporting evidence. Because all of the patents-in-suit are related

Hunter's Manufacturing Company, Inc.

1 within the same patent family, the prosecution history of each of them is considered intrinsic
2 evidence that may inform the construction of the claim terms of any of them. *See E.I. du Pont de*
3 *Nemours & Co. v. Unifrax I LLC*, 921 F.3d 1060, 1069-71 (Fed. Cir. 2019). Thus the
4 construction of claim terms that are the same or similar across multiple patents-in-suit may be
5 supported by the respective intrinsic evidence in any such patent; so multiple permutations of
6 cross-references to other patents-in-suit are omitted.

7 The claim terms identified in TenPoint's LPR 1-13 List are addressed in §§ I-VII below;
8 the claim terms identified in Ravin's LPR 1-13 List are addressed in §VIII below. Should
9 additional or subsequent disputes regarding claim scope or meaning arise, additional claim
10 construction may be necessary. *See Level Sleep LLC v. Sleep No. Corp.*, No. 2020-1718, 2021
11 U.S. App. LEXIS 20627, at *10 (July 13, 2021); *Wis. Alumni Research Found. v. Intel Corp.*,
12 656 F. Supp. 2d 898, 921 (W.D. Wis. 2009). TenPoint reserves the right to supplement or amend
13 its claim construction positions (including supporting evidence) based on receipt of Ravin's
14 proposed constructions of the disputed claim terms and the meet-and-confer required by LPR 1-
15 13(b).

16 **I. U.S. Patent No. 9,354,015 ("015 Patent")**

17 **Claim 1:**

- 18 • **a crossbow:** This claim term appears in the preamble and thus is non-limiting.
19 Furthermore, the body recites the elements comprising the crossbow. In the event
20 that this claim term is limiting, it should be given its plain and ordinary meaning:
21 its core elements are a central portion (also known as a stock, barrel, or beam) to
22 which a flexible, energy-storing bow is secured (the bow being of one piece or of
23 multiple "limbs"), to which a cable (or string or wire) is attached, the drawing of
24 which bends the bow and allows a projectile (or arrow or bolt) to be fired.
- 25 ○ Intrinsic evidence: Figs. 11-12, 5:52-61, 6:24-31; U.S. Patent Application
26 No. 14/071,723 (incorporated by reference at 6:61-63 and published as
27 U.S. Patent Pub. 2014/0261360) Figs. 1, 2, 4-8, 11, 17, 19A-21C, 23A-

26B; U.S. Patent Pub. 2011/0308508 Fig. 1, [0006]-[0007], [0011]; U.S. Patent 7,328,693 Figs. 4-7, 12-13, 1:38-44, 55-59, 2:39-44, 3:30-35, 44-47, 4:18-40; U.S. Patent Pub. 2011/0030666 Figs. 1, 4, 5, 9, 12, 13, 16-18, [0002], [0007], [0018], [0021], [0022], [0026], [0029], [0030], [0033]-[0035], [0038].

- Extrinsic evidence¹: U.S. Patent No. 8,191,541 Figs. 1, 3-5, 8, 1:19-29, 2:15-25, 3:4-5, 34-65; U.S. Patent Pub. 2012/0125302 Figs. 1-8, 12, [0002], [0003], [0049], [0052]; WIPO Patent Pub. WO 2011/141771 Figs. 1, 2, 8, 11, 12, 1:4-12, 7:6-8:10, 13:18-23, 22:30-23:1, 23:30-33; WIPO Patent Pub. WO 2011/158062 Figs. 1, 3, 9-11, 17-19, 1:4-12, 6:24, 6:33-8:5, 12:28-32, 22:22-27, 26:18-27:5.

- **a central portion**: This term should be given its plain and ordinary meaning: stock, barrel, or beam.
 - Intrinsic evidence: Figs. 11-12, 5:54-59, 6:26-30.
- **first and second flexible limbs attached to the central portion**: This term should be given its plain and ordinary meaning: first and second bendable energy-storage components secured directly or indirectly to the central portion.
 - Intrinsic evidence: Figs. 10-12, 1:46-51, 5:20-26, 56-59, 6:28-30.
- **a first string guide mounted to the first bow limb and rotatable around a first axis**: This term should be given its plain and ordinary meaning: first cam or pulley mounted directly or indirectly to the first bow limb and able to rotate around a first axis.
 - Intrinsic evidence: Figs. 1-12, 4:6-13, 5:22-26, 5:64-6:9, 6:34-36.

¹ As explained above, the prosecution history of the related patents in the patent-in-suit family qualifies as intrinsic evidence. Thus, the references listed as extrinsic evidence in the earlier patents are actually intrinsic evidence because they became part of the prosecution history of the subsequent patents. Thus the “extrinsic evidence” label here is merely to designate that those references were not cited in the prosecution history of those particular patents.

- 1 • **a first helical power cable take-up journal extending in a direction**
2 **perpendicular to the first plane of rotation of the first draw string journal:**
3 This term should be given its plain and ordinary meaning: a first groove or path,
4 for receiving a power cable, having a helical or spiral configuration sloping
5 upwards or downwards from the first plane of rotation of the first draw string
6 journal.
 - 7 ○ Intrinsic evidence: Figs. 6-9B, 2:27-31, 3:1-2, 4:6-32, 43-53, 4:62-5:9.
- 8 • **a second string guide mounted to the second bow limb and rotatable around**
9 **a second axis:** This term should be given its plain and ordinary meaning: second
10 cam or pulley mounted directly or indirectly to the second bow limb and able to
11 rotate around a first axis.
 - 12 ○ Intrinsic evidence: Figs. 1-12, 4:6-13, 5:22-26, 5:64-6:9, 6:34-36.
- 13 • **a second helical power cable take-up journal extending in a direction**
14 **perpendicular to the second plane of rotation of the second draw string**
15 **journal:** This term should be given its plain and ordinary meaning: a second
16 groove or path, for receiving a power cable, having a helical or spiral
17 configuration sloping upwards or downwards from the second plane of rotation of
18 the second draw string journal.
 - 19 ○ Intrinsic evidence: Figs. 6-9B, 2:27-31, 3:1-2, 4:6-32, 43-53, 4:62-5:9.
- 20 • **a draw string received in the first and second draw string journals and**
21 **secured to the crossbow in a reverse draw configuration with the draw string**
22 **adjacent the downrange side of the string guides in a released configuration,**
23 **wherein the draw string translates from the downrange side toward the up-**
24 **range side and unwinds between the first and second string, guides to a**
25 **drawn configuration:** Assuming the comma in this claim term is an error, this
26 term should be given its plain and ordinary meaning: a draw string or bowstring
27 received in the first and second grooves or paths (for receiving the draw string)

1 and secured such that the draw string rests in the uncocked or released position on
2 the downrange side of the string guides, wherein the draw string unwinds off the
3 string guides and travels to the up-range side as the crossbow is being cocked or
4 drawn.

- 5 ○ Intrinsic evidence: Figs. 1-6, 10-12, 1:23-27, 38-46, 3:57-4:5, 5:27-35,
6 6:10-15, 43-45.

- 7 • **a first power cable received in the first helical power cable take-up journal:**

8 This term should be given its plain and ordinary meaning, which should be
9 evident in light of the above construction for the first helical power cable take-up
10 journal.

- 11 • **a second power cable received in the second helical power cable take-up**
12 **journal:** This term should be given its plain and ordinary meaning, which should
13 be evident in light of the above construction for the second helical power cable
14 take-up journal.

15 Claim 2:

- 16 • **wherein the first and second power cables include . . . a second ends secured**
17 **to the central portion of the crossbow:** As best as this term can be understood in
18 light of its grammatical error, this term should be given its plain and ordinary
19 meaning: the second ends of the first and second power cables are directly
20 attached to the central portion.

- 21 ○ Intrinsic evidence: Fig. 12, 6:46-51.

22 Claim 5:

- 23 • **wherein the first and second helical power cable take-up journals wrap**
24 **around the first and second axes in directions perpendicular to the first and**
25 **second planes of rotation of the first and second draw string journals,**
26 **respectively:** This term should be given its plain and ordinary meaning, which
27

should be evident in light of the above construction for the first and second helical power cable take-up journals.

Claim 6:

- **journals comprise lengths that accommodates more than 360 degrees of rotation of the first and second string guides:** As best as this term can be understood in light of its grammatical error, this term should be given its plain and ordinary meaning: journals circumscribe the string guides at least once completely.

- Intrinsic evidence: Figs. 6-9B, 2:45-48, 3:24-30, 4:1-10, 30-32, 43-47, 4:62-5:9

Claim 7:

- **journals comprise lengths that accommodates more than 360 degrees of rotation of the first and second string guides:** see claim 6.

Claim 11:

- **a crossbow:** see claim 1.
- **a central portion:** see claim 1.
- **first and second flexible limbs attached to the central portion:** see claim 1.
- **a first string guide mounted to the first bow limb and rotatable around a first axis:** see claim 1.
- **a first power cable take-up journal extending around the first axis in a direction perpendicular to the first plane of rotation of the first draw string journal:** This term should be given its plain and ordinary meaning: a first groove or path, for receiving a power cable, sloping upwards or downwards from the first plane of rotation of the first draw string journal and around the first axis.
 - Intrinsic evidence: Figs. 6-9B, 2:27-31, 3:1-2, 4:6-32, 43-53, 4:62-5:9.
- **journals comprise lengths that accommodates more than 360 degrees of rotation of the first string guide:** see claim 6.

- 1 • **a second string guide mounted to the second bow limb and rotatable around**
2 **a second axis:** see claim 1.
- 3 • **a second power cable take-up journal extending around the second axis in a**
4 **direction perpendicular to the second plane of rotation of the second draw**
5 **string journal:** This term should be given its plain and ordinary meaning: a
6 second groove or path, for receiving a power cable, sloping upwards or
7 downwards from the second plane of rotation of the second draw string journal
8 and around the second axis.
 - 9 ○ Intrinsic evidence: Figs. 6-9B, 2:27-31, 3:1-2, 4:6-32, 43-53, 4:62-5:9.
- 10 • **journals comprise lengths that accommodates more than 360 degrees of**
11 **rotation of the second string guide:** see claim 6.
- 12 • **a draw string received in the first and second draw string journals and**
13 **secured to the crossbow in a reverse draw configuration with the draw string**
14 **adjacent the downrange side of the string guides in a released configuration,**
15 **wherein the draw string translates from the downrange side toward the up-**
16 **range side and unwinds between the first and second string guides to a**
17 **drawn configuration:** see claim 1.
- 18 • **a first power cable received in the first power cable take-up journal:** This
19 term should be given its plain and ordinary meaning, which should be clear in
20 light of the above construction for the first power cable take-up journal.
- 21 • **a second power cable received in the second power cable take-up journal:**
22 This term should be given its plain and ordinary meaning, which should be clear
23 in light of the above construction for the second power cable take-up journal.

24 Claim 12:

- 25 • **wherein the first and second power cables include . . . a second ends secured**
26 **to the central portion of the crossbow:** see claim 2.

27 Claim 14:

- **journals comprise lengths that accommodates more than 360 degrees of rotation of the first and second string guides:** see claim 6.

Claim 15:

- **helical journals:** This term should be given its plain and ordinary meaning: grooves or paths having a helical or spiral configuration sloping upwards or downwards.
 - Intrinsic evidence: Figs. 6-9B, 2:27-31, 3:1-2, 4:6-32, 43-53, 4:62-5:9.

Claim 16:

- **about 8 inches:** This term should be given its plain and ordinary meaning: a rated or nominal value of 8 inches allowing for manufacturing tolerances.
 - Intrinsic evidence: 3:59-64.

II. U.S. Patent No. 9,494,379 (“’379 Patent”)

Claim 1:

- **a crossbow:** This claim term appears in the preamble and thus is non-limiting. Furthermore, the body recites the elements comprising the crossbow. In the event that this claim term is limiting, it should be given its plain and ordinary meaning: its core elements are a central portion (also known as a stock, barrel, or beam) to which a flexible, energy-storing bow is secured (the bow being of one piece or of multiple “limbs”), to which a cable (or string or wire) is attached, the drawing of which bends the bow and allows a projectile (or arrow or bolt) to be fired.
 - Intrinsic evidence: Figs. 11-12, 13A, 14A-B, 23A, 3:51-57, 4:16-23, 6:50-61, 7:23-30, 7:65-8:24; U.S. Patent Application No. 14/071,723 (incorporated by reference at 7:62-64 and published as U.S. Patent Pub. 2014/0261360) Figs. 1, 2, 4-8, 11, 17, 19A-21C, 23A-26B; U.S. Patent Pub. 2011/0308508 Fig. 1, [0006]-[0007], [0011]; U.S. Patent 7,328,693 Figs. 4-7, 12-13, 1:38-44, 55-59, 2:39-44, 3:30-35, 44-47, 4:18-40; U.S. Patent No. 8,191,541 Figs. 1, 3-5, 8, 1:19-29, 2:15-25, 3:4-5, 34-65.

- Extrinsic evidence: U.S. Patent Pub. 2011/0030666 Figs. 1, 4, 5, 9, 12, 13, 16-18, [0002], [0007], [0018], [0021], [0022], [0026], [0029], [0030], [0033]-[0035], [0038]; U.S. Patent Pub. 2012/0125302 Figs. 1-8, 12, [0002], [0003], [0049], [0052]; WIPO Patent Pub. WO 2011/141771 Figs. 1, 2, 8, 11, 12, 1:4-12, 7:6-8:10, 13:18-23, 22:30-23:1, 23:30-33; WIPO Patent Pub. WO 2011/158062 Figs. 1, 3, 9-11, 17-19, 1:4-12, 6:24, 6:33-8:5, 12:28-32, 22:22-27, 26:18-27:5.
- **first and second flexible limbs attached to a central rail:** This term should be given its plain and ordinary meaning: first and second bendable energy-storage components secured directly or indirectly to the stock, barrel, or beam.
 - Intrinsic evidence: Figs. 11-14B, 15, 21A, 23A, 6:55-57, 7:23-29, 7:65-8:24.
- **a first cam mounted to the first flexible limb and rotatable around a first axis:** This term should be given its plain and ordinary meaning: first cam mounted directly or indirectly to the first flexible limb and able to rotate around a first axis.
 - Intrinsic evidence: Figs. 1-14B, 15-16B, 21A-23A, 24A-C, 5:1-11, 6:18-24, 6:62-7:7, 7:33-39, 8:30-38.
- **a first upper power cable take-up journal extending in a direction perpendicular to the first plane of rotation of the first draw string journal:** This term should be given its plain and ordinary meaning: a first groove or path, for receiving a power cable, located vertically above the draw string journal and sloping upwards or downwards in relation to the first plane of rotation of the first draw string journal.
 - Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 2:35-39, 5:20-28, 5:39-6:6, 6:34-49, 6:62-7:57, 9:32-42, 12:53-61, 13:3-14.
- **a first lower power cable take-up journal extending in an opposite direction perpendicular to the first plane of rotation:** This term should be given its plain

and ordinary meaning: a first groove or path, for receiving a power cable, located vertically below the draw string journal and sloping upwards or downwards in relation to the first plane of rotation in a direction opposite of that of the first upper power cable take-up journal.

- Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 2:35-39, 5:20-28, 5:39-6:6, 6:34-49, 6:62-7:57, 9:32-42, 12:53-61, 13:3-14.

- **a second cam mounted to the second flexible limb and rotatable around a second axis:** This term should be given its plain and ordinary meaning: second cam mounted directly or indirectly to the second flexible limb and able to rotate around a second axis.

- Intrinsic evidence: Figs. 1-14B, 15-16B, 21A-23A, 24A-C, 5:1-11, 6:18-24, 6:62-7:7, 7:33-39, 8:30-38.

- **a second upper power cable take-up journal extending in a direction perpendicular to the second plane of rotation of the second draw string journal:** This term should be given its plain and ordinary meaning: a second groove or path, for receiving a power cable, located vertically above the draw string journal and sloping upwards or downwards in relation to the second plane of rotation of the second draw string journal.

- Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 2:35-39, 5:20-28, 5:39-6:6, 6:34-49, 6:62-7:57, 9:32-42, 12:53-61, 13:3-14.

- **a second lower power cable take-up journal extending in an opposite direction perpendicular to the second plane of rotation:** This term should be given its plain and ordinary meaning: a second groove or path, for receiving a power cable, located vertically below the draw string journal and sloping upwards or downwards in relation to the second plane of rotation in a direction opposite of that of the second upper power cable take-up journal.

○ Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 2:35-39, 5:20-28, 5:39-6:6, 6:34-49, 6:62-7:57, 9:32-42, 12:53-61, 13:3-14.

- **a draw string received in the draw string journals and secured to the first and second cams, wherein the draw string unwinds from the draw string journals as it translates from a released configuration to a drawn**

configuration: This term should be given its plain and ordinary meaning: a draw string or bowstring received in the grooves or paths (for receiving the draw string) and secured to the first and second cams, wherein the draw string unwinds off the grooves or paths as the crossbow is being cocked or drawn.

○ Intrinsic evidence: Figs. 1-6, 10-14B, 21A, 23A, 1:52-57, 4:60-5:11, 6:25-33, 7:8-13, 12:49-52, 13:11-14.

- **upper and lower power cables received in the upper and lower power cable take-up journals on each of the first and second cams:** This term should be given its plain and ordinary meaning, which should be evident in light of the above construction for the first and second upper and lower power cable take-up journals.

Claim 2:

- **helical journals:** This term should be given its plain and ordinary meaning: grooves or paths having a helical or spiral configuration sloping upwards or downwards.

○ Intrinsic evidence: Figs. 6-9B, 15, 21B, 23B, 24A-C, 2:35-39, 5:20-28, 5:39-6:6, 6:34-49, 6:62-7:57, 9:32-42, 12:53-61, 13:3-14.

Claim 3:

- **wherein the upper and lower power cable take-up journals comprise a width at least twice a width of the upper and lower power cables:** This term should be given its plain and ordinary meaning: each of the upper and lower power cable take-up grooves or paths is at least twice as wide as a width of the upper or lower

power cables, i.e., such that two such cables could fit adjacently in one groove or path.

- Intrinsic evidence: Fig. 9C, 2:39-44, 6:7-13, 6:62-7:2, 7:33-42.

Claim 4:

- **between about 270 degrees to about 330 degrees:** This term should be given its plain and ordinary meaning: a rated or nominal value between 270 and 330 degrees, allowing for manufacturing tolerances of no more than 0.1 degree.
 - Intrinsic evidence: Abstract, 1:33-40, 1:52-2:3, 4:60-67, 5:20-28, 59-67, 13:15-21, 15:25-37.

Claim 5:

- **between about 300 degrees to about 360 degrees:** This term should be given its plain and ordinary meaning: a rated or nominal value between 300 and 360 degrees, allowing for manufacturing tolerances of no more than 0.1 degree.
 - Intrinsic evidence: Abstract, 1:33-40, 1:52-2:3, 4:60-67, 5:20-28, 59-67, 13:15-21, 15:25-37.

Claim 6:

- **more than about 360 degrees:** This term should be given its plain and ordinary meaning: a rated or nominal value greater than 360 degrees, allowing for manufacturing tolerances of no more than 0.1 degree.
 - Intrinsic evidence: Abstract, 1:33-40, 1:52-2:3, 4:60-67, 5:20-28, 59-67, 13:15-21, 15:25-37.

Claim 7:

- **wherein first ends of the upper and lower power cables are attached to power cable attachments extending above upper and lower surfaces of the first and second cams, respectively:** This term should be given its plain and ordinary meaning: the first ends of the upper and lower power cables are secured to posts

that extend vertically above the surfaces surrounding and adjacent to the first and second draw string journals and parallel to the first and second planes of rotation

- Intrinsic evidence: Figs. 1-9A, 9C-12, 16A-B, 21A, 22A-B, 23B-24C, 1:44-49, 1:63-2:3, 2:64-3:3, 4:43-48, 5:20-28, 49-53, 63-67, 6:13-17, 34-49, 7:14-16, 46-51, 12:22-28, 46-49, 12:62-13:2.

Claim 9:

- **wherein the first and second cams are mounted to the first and second flexible limbs, respectively, with first and second axes of rotation offset from distal tips of the flexible limbs by about 1.0 inch to about 3.0 inches:** This term should be given its plain and ordinary meaning: the first and second cams are mounted such that the distance between the cams' respective axes of rotation and the distal tips or endpoints of the respective flexible limbs is a rated or nominal value between 1.0 and 3.0 inches, allowing for manufacturing tolerances of no more than 0.01 inches.

- Intrinsic evidence: Figs. 13A, 14A, 21A-B, 23A, 8:30-47, 15:25-36.

Claim 11:

- **a crossbow:** see claim 1.
- **first and second flexible limbs attached to, and extending away from, a central rail:** This term should be given its plain and ordinary meaning: first and second bendable energy-storage components having first ends secured directly or indirectly to the stock, barrel, or beam and having second ends pointing away from the stock, barrel, or beam.
 - Intrinsic evidence: Figs. 11-14B, 15, 21A, 23A, 6:18-21, 55-57, 7:23-29, 7:65-8:24.
- **a first cam mounted to the first flexible limb and rotatable around a first axis:** see claim 1.

- **a first helical power cable take-up journal extending in a direction perpendicular to the first plane of rotation of the first draw string journal:**

This term should be given its plain and ordinary meaning: a first groove or path, for receiving a power cable, having a helical or spiral configuration sloping upwards or downwards from the first plane of rotation of the first draw string journal.

- Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 2:35-39, 5:20-28, 5:39-6:6, 6:34-49, 6:62-7:57, 9:32-42, 12:53-61, 13:3-14.

- **a second cam mounted to the second flexible limb and rotatable around a second axis:** see claim 1.

- **a second helical power cable take-up journal extending in a direction perpendicular to the second plane of rotation of the second draw string journal:** This term should be given its plain and ordinary meaning: a second groove or path, for receiving a power cable, having a helical or spiral configuration sloping upwards or downwards from the second plane of rotation of the second draw string journal.

- Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 2:35-39, 5:20-28, 5:39-6:6, 6:34-49, 6:62-7:57, 9:32-42, 12:53-61, 13:3-14.

- **a draw string received in the first and second draw string journals and secured to the first and second cams, wherein the draw string unwinds from the first and second draw string journals as it translates between a released configuration to a drawn configuration:** This term should be given its plain and ordinary meaning: a draw string or bowstring received in the first and second grooves or paths (for receiving the draw string) and secured to the first and second cams, wherein the draw string unwinds off the grooves or paths as the crossbow is being cocked or drawn.

- Intrinsic evidence: Figs. 1-6, 10-14B, 21A, 23A, 1:52-57, 4:60-5:11, 6:25-33, 7:8-13, 12:49-52, 13:11-14.

- **power cables received in the first and second helical power cable take-up journals:** This term should be given its plain and ordinary meaning, which should be evident in light of the above construction for the first and second helical power cable take-up journals.

Claim 15:

- **wherein the first and second helical power cable take-up journals comprise upper and lower helical power cable take-up journals on each of the first and second cams extending in a direction perpendicular to the respective plane of rotation of the first and second cams:** This term should be given its plain and ordinary meaning: the first and second helical power cable take-up journals each have an upper and a lower helical power cable take-up journals that slope upwards or downwards in relation to the respective plane of rotation of the cams.
 - Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 2:35-39, 5:20-28, 5:39-6:6, 6:34-49, 6:62-7:57, 9:32-42, 12:53-61, 13:3-14.

Claim 16:

- **between about 270 degrees to about 360 degrees:** This term should be given its plain and ordinary meaning: a rated or nominal value between 270 and 360 degrees, allowing for manufacturing tolerances of no more than 0.1 degree.
 - Intrinsic evidence: Abstract, 1:33-40, 1:52-2:3, 4:60-67, 5:20-28, 59-67, 13:15-21, 15:25-37.

Claim 17:

- **more than about 360 degrees:** see claim 6.

Claim 18:

- **wherein the first and second cams are mounted to the first and second flexible limbs, respectively, with first and second axes of rotation offset from**

1 **distal tips of the flexible limbs by about 1.0 inch to about 3.0 inches: see claim**
2 **9.**

3 **Claim 19:**

- 4 • **a crossbow: see claim 1.**
- 5 • **first and second flexible limbs attached to, and extending away from, a**
6 **central rail: see claim 11.**
- 7 • **a first cam mounted to the first flexible limb and rotatable around a first**
8 **axis: see claim 1.**
- 9 • **a first power cable take-up journal extending in a direction perpendicular to**
10 **the first plane of rotation of the first draw string journal:** This term should be
11 given its plain and ordinary meaning: a first groove or path, for receiving a power
12 cable, sloping upwards or downwards from the first plane of rotation of the first
13 draw string journal.
 - 14 ○ Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 2:35-39, 5:20-
 - 15 28, 5:39-6:6, 6:34-49, 6:62-7:57, 9:32-42, 12:53-61, 13:3-14.
- 16 • **a second cam mounted to the second flexible limb and rotatable around a**
17 **second axis: see claim 1.**
- 18 • **a second power cable take-up journal extending in a direction perpendicular**
19 **to the second plane of rotation of the second draw string journal:** This term
20 should be given its plain and ordinary meaning: a second groove or path, for
21 receiving a power cable, sloping upwards or downwards from the second plane of
22 rotation of the second draw string journal.
 - 23 ○ Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 2:35-39, 5:20-
 - 24 28, 5:39-6:6, 6:34-49, 6:62-7:57, 9:32-42, 12:53-61, 13:3-14.
- 25 • **a draw string received in the first and second draw string journals and**
26 **secured to the first and second cams, wherein the draw string unwinds from**
27

the first and second draw string journals as it translates between a released configuration to a drawn configuration: see claim 11.

- **power cables received in the first and second power cable take-up journals, wherein the first and second power cable take-up journals comprise a width at least twice a width of the power cables:** This term should be given its plain and ordinary meaning, the first clause of which should be evident in light of the above construction for the first and second power cable take-up journals, the second clause of which is: each of the power cable take-up grooves or paths is at least twice as wide as a width of the power cables, i.e., such that two such cables could fit adjacently in one groove or path.

- Intrinsic evidence: Fig. 9C, 2:39-44, 6:7-13, 6:62-7:2, 7:33-42.

- **the power cables wrap onto the respective first and second power cable take-up journals in a helical configuration:** This term should be given its plain and ordinary meaning: the power cables wrap onto the respective first and second grooves or paths having a helical or spiral configuration sloping upwards or downwards.

- Intrinsic evidence: Figs. 6-9B, 15, 21B, 23B, 24A-C, 2:35-39, 5:20-28, 5:39-6:6, 6:34-49, 6:62-7:57, 9:32-42, 12:53-61, 13:3-14.

III. U.S. Patent No. 9,879,936 (“936 Patent”)

Claim 1:

- **a bow:** This claim term appears in the preamble and thus is non-limiting. Furthermore, the body recites the elements comprising the bow. In the event that this claim term is limiting, it should be given its plain and ordinary meaning: its core elements are a flexible, bent, energy-storing component (of one piece or of multiple “limbs”) to which a cable (or string or wire) is attached, the drawing of which bends the bow and allows a projectile (or arrow or bolt) to be fired.

- Intrinsic evidence: Figs. 10-12, 13A, 14A-B, 21A, 23A, Abstract, 4:42-50, 7:18-33; U.S. Patent Application No. 14/071,723 (incorporated by reference at 9:28-30 and published as U.S. Patent Pub. 2014/0261360) Figs. 1, 2, 4-8, 10, 11, 16, 17, 19A-21C, 23A-26B, [0037], [0039]-[0041], [0045]-[0048], [0094], [0099], [0121]; WIPO Patent Pub. WO 2011/141771 Figs. 1-8, 11-13, 18, 1:4-12; WIPO Patent Pub. WO 2011/158062 Figs. 1-4, 9-11, 17-19, 1:4-12; U.S. Patent Pub. 2011/0308508 Figs. 1-3, [0006], [0011]-[0012]; U.S. Patent 7,328,693 Figs. 1-7, 12-13, 1:22-47, 55-59, 2:33-44, 3:24-35, 3:61-4:40; U.S. Patent No. 8,191,541 Figs. 1, 3-5, 8, Abstract, 1:19-29, 2:15-25, 63-67, 3:4-5, 34-65.
- Extrinsic evidence: U.S. Patent Pub. 2012/0125302 Figs. 1-8, 12, [0002], [0003], [0049], [0052].
- **first and second bow limbs attached to a riser:** This term should be given its plain and ordinary meaning: first and second bendable energy-storage components secured directly or indirectly to a riser.
 - Intrinsic evidence: Figs. 10-14B, 15, 21A, 23A, 1:31-34, 7:18-24, 46-52, 8:16-23, 56-62, 9:31-62, 10:26-30.
- **a first cam mounted to the first bow limb and rotatable around a first axis:** This term should be given its plain and ordinary meaning: first cam mounted directly or indirectly to the first bow limb and able to rotate around a first axis.
 - Intrinsic evidence: Figs. 1-14B, 15-16B, 21A-23A, 24A-C, 7:18-24, 8:28-40, 8:66-9:5, 9:63-10:4.
- **a first upper power cable take-up journal extending in a direction perpendicular to the first plane of rotation of the first draw string journal:** This term should be given its plain and ordinary meaning: a first groove or path, for receiving a power cable, located vertically above the draw string journal and

sloping upwards or downwards in relation to the first plane of rotation of the first draw string journal.

- Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 2:41-46, 6:12-28, 39-67, 7:34-45, 10:65-11:19, 14:21-53.

- **a first lower power cable take-up journal extending in an opposite direction perpendicular to the first plane of rotation:** This term should be given its plain and ordinary meaning: a first groove or path, for receiving a power cable, located vertically below the draw string journal and sloping upwards or downwards in relation to the first plane of rotation in a direction opposite of that of the first upper power cable take-up journal.

- Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 2:41-46, 6:12-28, 39-67, 7:34-45, 10:65-11:19, 14:21-53.

- **a second cam mounted to the second bow limb and rotatable around a second axis:** This term should be given its plain and ordinary meaning: second cam mounted directly or indirectly to the second bow limb and able to rotate around a second axis.

- Intrinsic evidence: Figs. 1-14B, 15-16B, 21A-23A, 24A-C, 7:18-24, 8:28-40, 8:1-9:5, 9:63-10:4.

- **a second upper power cable take-up journal extending in a direction perpendicular to the second plane of rotation of the second draw string journal:** This term should be given its plain and ordinary meaning: a second groove or path, for receiving a power cable, located vertically above the draw string journal and sloping upwards or downwards in relation to the second plane of rotation of the second draw string journal.

- Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 2:41-46, 6:12-28, 39-67, 7:34-45, 10:65-11:19, 14:21-53.

- 1 • **a second lower power cable take-up journal extending in an opposite**
2 **direction perpendicular to the second plane of rotation:** This term should be
3 given its plain and ordinary meaning: a second groove or path, for receiving a
4 power cable, located vertically below the draw string journal and sloping upwards
5 or downwards in relation to the second plane of rotation in a direction opposite of
6 that of the second upper power cable take-up journal.
 - 7 ○ Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 2:41-46, 6:12-
8 28, 39-67, 7:34-45, 10:65-11:19, 14:21-53.
- 9 • **a draw string received in the draw string journals and secured to the first**
10 **and second cams, wherein the draw string unwinds from the draw string**
11 **journals as it translates from a released configuration to a drawn**
12 **configuration:** This term should be given its plain and ordinary meaning: a draw
13 string or bowstring received in the grooves or paths (for receiving the draw string)
14 and secured to the first and second cams, wherein the draw string unwinds off the
15 grooves or paths as the bow is being cocked or drawn.
 - 16 ○ Intrinsic evidence: Figs. 1-6, 10-14B, 21A, 23A, 1:53-58, 5:60-6:11, 7:25-
17 33, 8:41-46, 9:9-11, 14:14-17, 43-46.
- 18 • **upper and lower power cables received in the upper and lower power cable**
19 **take-up journals on each of the first and second cams:** This term should be
20 given its plain and ordinary meaning, which should be evident in light of the
21 above construction for the first and second upper and lower power cable take-up
22 journals.

23 Claim 2:

- 24 • **helical journals:** This term should be given its plain and ordinary meaning:
25 grooves or paths having a helical or spiral configuration sloping upwards or
26 downwards.

- Intrinsic evidence: Figs. 6-9B, 15, 21B, 23B, 24A-C, 2:41-46, 6:12-28, 39-67, 7:34-45, 10:65-11:19, 14:21-53.

Claim 3:

- **wherein the upper and lower power cable take-up journals comprise a width at least twice a width of the upper and lower power cables:** This term should be given its plain and ordinary meaning: each of the upper and lower power cable take-up grooves or paths is at least twice as wide as a width of the upper or lower power cables, i.e., such that two such cables could fit adjacently in one groove or path.

- Intrinsic evidence: Fig. 9C, 2:46-48, 7:7-13, 8:33-35, 9:1-8.

Claim 4:

- **between about 270 degrees to about 330 degrees:** This term should be given its plain and ordinary meaning: a rated or nominal value between 270 and 330 degrees, allowing for manufacturing tolerances of no more than 0.1 degree.

- Intrinsic evidence: Abstract, 1:35-42, 53-56, 1:64-2:4, 5:63-67, 6:20-28, 59-67, 14:47-53, 16:59-17:3.

Claim 5:

- **between about 300 degrees to about 360 degrees:** This term should be given its plain and ordinary meaning: a rated or nominal value between 300 and 360 degrees, allowing for manufacturing tolerances of no more than 0.1 degree.

- Intrinsic evidence: Abstract, 1:35-42, 53-56, 1:64-2:4, 5:63-67, 6:20-28, 59-67, 14:47-53, 16:59-17:3.

Claim 6:

- **more than about 360 degrees:** This term should be given its plain and ordinary meaning: a rated or nominal value greater than 360 degrees, allowing for manufacturing tolerances of no more than 0.1 degree.

- Intrinsic evidence: Abstract, 1:35-42, 53-56, 1:64-2:4, 5:63-67, 6:20-28, 59-67, 14:47-53, 16:59-17:3.

1 Claim 7:

- 2 • **wherein first ends of the upper and lower power cables are attached to power**
3 **cable attachments extending above upper and lower surfaces of the first and**
4 **second cams, respectively:** This term should be given its plain and ordinary
5 meaning: the first ends of the upper and lower power cables are secured to posts
6 that extend vertically above the surfaces surrounding and adjacent to the first and
7 second draw string journals and parallel to the first and second planes of rotation
8 ○ Intrinsic evidence: Figs. 1-9A, 9C-12, 16A-B, 21A, 22A-B, 23B-24C,
9 1:45-2:4, 2:59-3:3, 3:33-39, 5:41-51, 6:13-28, 49-67, 7:13-17, 34-52,
10 8:47-49, 9:12-17, 11:14-16, 13:54-60, 14:1-34.

11 Claim 9:

- 12 • **wherein the first and second cams are mounted to the first and second bow**
13 **limbs, respectively, with first and second axes of rotation offset from distal**
14 **tips of the bow limbs by about 1.0 inch to about 3.0 inches:** This term should
15 be given its plain and ordinary meaning: the first and second cams are mounted
16 such that the distance between the cams' respective axes of rotation and the distal
17 tips or endpoints of the respective flexible limbs is a rated or nominal value
18 between 1.0 and 3.0 inches, allowing for manufacturing tolerances of no more
19 than 0.01 inches.
20 ○ Intrinsic evidence: Figs. 13A, 14A, 21A-B, 23A, 9:63-10:13, 16:59-17:3.

21 Claim 11:

- 22 • **a bow:** see claim 1.
23 • **first and second flexible limbs attached to, and extending away from, a riser:**
24 This term should be given its plain and ordinary meaning: first and second
25 bendable energy-storage components having first ends secured directly or
26 indirectly to a riser and having second ends pointing away from the riser.
27 ○ Intrinsic evidence: Figs. 10-14B, 15, 21A, 23A, 1:31-34, 7:18-24, 46-52,
8:16-23, 56-62, 9:31-62, 10:26-30.

- 1 • **a first cam mounted to the first flexible limb and rotatable around a first**
2 **axis:** see claim 1.
- 3 • **a first helical power cable take-up journal extending in a direction**
4 **perpendicular to the first plane of rotation of the first draw string journal:**
5 This term should be given its plain and ordinary meaning: a first groove or path,
6 for receiving a power cable, having a helical or spiral configuration sloping
7 upwards or downwards from the first plane of rotation of the first draw string
8 journal.
 - 9 ○ Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 2:41-46, 6:12-
10 28, 39-67, 7:34-45, 10:65-11:19, 14:21-53.
- 11 • **a second cam mounted to the second flexible limb and rotatable around a**
12 **second axis:** see claim 1.
- 13 • **a second helical power cable take-up journal extending in a direction**
14 **perpendicular to the second plane of rotation of the second draw string**
15 **journal:** This term should be given its plain and ordinary meaning: a second
16 groove or path, for receiving a power cable, having a helical or spiral
17 configuration sloping upwards or downwards from the second plane of rotation of
18 the second draw string journal.
 - 19 ○ Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 2:41-46, 6:12-
20 28, 39-67, 7:34-45, 10:65-11:19, 14:21-53.
- 21 • **a draw string received in the first and second draw string journals and**
22 **secured to the first and second cams, wherein the draw string unwinds from**
23 **the first and second draw string journals as it translates between a released**
24 **configuration to a drawn configuration:** This term should be given its plain and
25 ordinary meaning: a draw string or bowstring received in the first and second
26 grooves or paths (for receiving the draw string) and secured to the first and
27

second cams, wherein the draw string unwinds off the grooves or paths as the bow is being cocked or drawn.

- Intrinsic evidence: Figs. 1-6, 10-14B, 21A, 23A, 1:53-58, 5:60-6:11, 7:25-33, 8:41-46, 9:9-11, 14:14-17, 43-46.

- **power cables received in the first and second helical power cable take-up journals:** This term should be given its plain and ordinary meaning, which should be evident in light of the above construction for the first and second helical power cable take-up journals.

Claim 15:

- **wherein the first and second helical power cable take-up journals comprise upper and lower helical power cable take-up journals on each of the first and second cams extending in a direction perpendicular to the respective plane of rotation of the first and second cams:** This term should be given its plain and ordinary meaning: the first and second helical power cable take-up journals each have an upper and a lower helical power cable take-up journals that slope upwards or downwards in relation to the respective plane of rotation of the cams.
 - Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 2:41-46, 6:12-28, 39-67, 7:34-45, 10:65-11:19, 14:21-53.

Claim 16:

- **between about 270 degrees to about 360 degrees:** This term should be given its plain and ordinary meaning: a rated or nominal value between 270 and 360 degrees, allowing for manufacturing tolerances of no more than 0.1 degree.
 - Intrinsic evidence: Abstract, 1:35-42, 53-56, 1:64-2:4, 5:63-67, 6:20-28, 59-67, 14:47-53, 16:59-17:3.

Claim 17:

- **more than about 360 degrees:** see claim 6.

Claim 18:

- **wherein the first and second cams are mounted to the first and second bow limbs, respectively, with first and second axes of rotation offset from distal tips of the bow limbs by about 1.0 inch to about 3.0 inches: see claim 9.**

Claim 19:

- **a bow: see claim 1.**
- **first and second flexible limbs attached to, and extending away from, a riser: see claim 11.**
- **a first cam mounted to the first flexible limb and rotatable around a first axis: see claim 1.**
- **a first power cable take-up journal extending in a direction perpendicular to the first plane of rotation of the first draw string journal:** This term should be given its plain and ordinary meaning: a first groove or path, for receiving a power cable, sloping upwards or downwards from the first plane of rotation of the first draw string journal.
 - Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 2:41-46, 6:12-28, 39-67, 7:34-45, 10:65-11:19, 14:21-53.
- **a second cam mounted to the second flexible limb and rotatable around a second axis: see claim 1.**
- **a second power cable take-up journal extending in a direction perpendicular to the second plane of rotation of the second draw string journal:** This term should be given its plain and ordinary meaning: a second groove or path, for receiving a power cable, sloping upwards or downwards from the second plane of rotation of the second draw string journal.
 - Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 2:41-46, 6:12-28, 39-67, 7:34-45, 10:65-11:19, 14:21-53.
- **a draw string received in the first and second draw string journals and secured to the first and second cams, wherein the draw string unwinds from**

1 **the first and second draw string journals as it translates between a released**
2 **configuration to a drawn configuration:** see claim 11.

- 3 • **power cables received in the first and second power cable take-up journals,**
4 **wherein the first and second power cable take-up journals comprise a width**
5 **at least twice a width of the power cables:** This term should be given its plain
6 and ordinary meaning, the first clause of which should be evident in light of the
7 above construction for the first and second power cable take-up journals, the
8 second clause of which is: each of the power cable take-up grooves or paths is at
9 least twice as wide as a width of the power cables, i.e., such that two such cables
10 could fit adjacently in one groove or path.

- 11 ○ Intrinsic evidence: Fig. 9C, 2:46-48, 7:7-13, 8:33-35, 9:1-8.

- 12 • **the power cables wrap onto the respective first and second power cable take-**
13 **up journals in a helical configuration:** This term should be given its plain and
14 ordinary meaning: the power cables wrap onto the respective first and second
15 grooves or paths having a helical or spiral configuration sloping upwards or
16 downwards.

- 17 ○ Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 2:41-46, 6:12-
18 28, 39-67, 7:34-45, 10:65-11:19, 14:21-53.

18 **IV. U.S. Patent No. 10,254,073 (“’073 Patent”)**

19 **Claim 1:**

- 20 • **first and second flexible limbs attached to a central rail:** This term should be
21 given its plain and ordinary meaning: first and second bendable energy-storage
22 components secured directly or indirectly to the stock, barrel, or beam.

- 23 ○ Intrinsic evidence: Figs. 10-14B, 15, 21A, 23A, 28A, 29, 7:60-67, 8:33-
24 42, 9:8-25, 10:33-46.

- 25 • **a first string guide mounted to the first flexible limb by a first axle mount**
26 **and rotatable around a first axis located a fixed distance from the first**
27 **flexible limb by the first axle mount:** This term should be given its plain and

ordinary meaning: first cam or pulley mounted directly or indirectly to the first flexible limb using a supporting component (such as a block or bracket) that receives a first axle, and able to rotate around a first axis, which the supporting component keeps a fixed distance away from the limb.

- Intrinsic evidence: Figs. 1-14B, 15-16B, 21A-23A, 24A-C, 28A-B, 28F, 29, 5:62-6:5, 6:59-61, 7:21-27, 8:5-17, 43-52, 10:47-11:12.

- **first upper and lower helical power cable journals on opposite sides of the first draw string journal:** This term should be given its plain and ordinary meaning: one groove or path, for receiving a power cable, located vertically above the first draw string journal and another groove or path, for receiving a power cable, located vertically below the first draw string journal, the grooves or paths having a helical or spiral configuration sloping upwards or downwards in relation to the first draw string journal.

- Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 28A-B, 29, 6:6-22, 6:42-7:3, 7:37-47, 11:64-12:18, 15:27-55.

- **a second string guide mounted to the second flexible limb by a second axle mount and rotatable around a second axis located a fixed distance from the second flexible limb by the second axle mount:** This term should be given its plain and ordinary meaning: second cam or pulley mounted directly or indirectly to the second flexible limb using a supporting component (such as a block or bracket) that receives a second axle, and able to rotate around a second axis, which the supporting component keeps a fixed distance away from the limb.

- Intrinsic evidence: Figs. 1-14B, 15-16B, 21A-23A, 24A-C, 28A-B, 28F, 29, 5:62-6:5, 6:59-61, 7:21-27, 8:5-17, 43-52, 10:47-11:12.

- **second upper and lower helical power cable journals on opposite sides of the second draw string journal:** This term should be given its plain and ordinary meaning: one groove or path, for receiving a power cable, located vertically

1 above the second draw string journal and another groove or path, for receiving a
2 power cable, located vertically below the second draw string journal, the grooves
3 or paths having a helical or spiral configuration sloping upwards or downwards in
4 relation to the second draw string journal.

- 5 ○ Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 28A-B, 29, 6:6-
6 22, 6:42-7:3, 7:37-47, 11:64-12:18, 15:27-55.

- 7 • **a draw string received in the first and second string guide journals in a**
8 **reverse draw configuration with the draw string adjacent a down-range side**
9 **when in a released configuration, wherein the draw string unwinds from the**
10 **first and second string guide journals as it translates from the released**
11 **configuration to a drawn configuration:** This term should be given its plain and
12 ordinary meaning: a draw string or bowstring received in the grooves or paths (of
13 the cams or pulleys) such that the draw string rests in the uncocked or released
14 position on the downrange side of the string guides, wherein the draw string
15 unwinds off the grooves or paths as the crossbow is being cocked or drawn.

- 16 ○ Intrinsic evidence: Figs. 1-6, 10-14B, 21A, 23A, 28A-B, 28F, 1:55-60,
17 5:31-33, 42-45, 5:54-6:5, 7:28-36, 60-62, 8:18-23, 33-35, 14:52-55, 15:23-
18 30, 52-55.

- 19 • **about 4 inches to about 8 inches:** This term should be given its plain and
20 ordinary meaning: a rated or nominal value between 4 and 8 inches, allowing for
21 manufacturing tolerances of no more than 0.1 inch.

- 22 ○ Intrinsic evidence: 3:5-7, 5:44-53, 10:1-7, 20:8-19.

- 23 • **less than about 25 degrees:** This term should be given its plain and ordinary
24 meaning: a rated or nominal value less than 25 degrees, allowing for
25 manufacturing tolerances of no more than 0.1 degree.

- 26 ○ Intrinsic evidence: Figs. 2-3, 5-6, 13A, 23A, 10:8-32, 61-63, 20:8-19.

- **a pair of first power cables having first ends received in the first upper and lower helical power cable journals and second ends attached to static attachment points on the crossbow:** This term should be given its plain and ordinary meaning: two power cables, each of which has a first end and a second end, where the first end of one cable is received in the first upper power cable journal, the first end of the other cable is received in the first lower power cable journal, and the second ends of the cables are secured to posts secured to the crossbow.

- Intrinsic evidence: Figs. 6-9B, 12, 13A-B, 14A, 15, 21A-24C, 28A-B, 28F, 29, 3:32-36, 6:6-22, 6:42-7:3, 7:37-47, 11:64-12:18, 14:58-15:15, 15:27-55.

- **a pair of second power cables having first ends received in the second upper and lower helical power cable journals and second ends attached to static attachment points on the crossbow:** This term should be given its plain and ordinary meaning: two power cables, each of which has a first end and a second end, where the first end of one cable is received in the second upper power cable journal, the first end of the other cable is received in the second lower power cable journal, and the second ends of the cables are secured to posts secured to the crossbow.

- Intrinsic evidence: Figs. 6-9B, 12, 13A-B, 14A, 15, 21A-24C, 28A-B, 28F, 29, 3:32-36, 6:6-22, 6:42-7:3, 7:37-47, 11:64-12:18, 14:58-15:15, 15:27-55.

- **the first and second axes move continuously toward the center rail as the drawstring is moved from the released configuration to the drawn configuration:** This term should be given its plain and ordinary meaning: as the crossbow is cocked or drawn, the distance between the center rail and the first and second axes continuously decreases.

- Intrinsic evidence: Figs. 4-6, 5:44-53, 6:10-13.

Claim 2:

- **about 10 inches to about 15 inches:** This term should be given its plain and ordinary meaning: a rated or nominal value between 10 and 15 inches, allowing for manufacturing tolerances of no more than 0.1 inch.

- Intrinsic evidence: Figs. 2, 5, 13A, 14A, 23A, 28A, 28F, 6:26-35, 10:51-58, 20:8-19.

Claim 5:

- **between about 300 degrees to about 360 degrees:** This term should be given its plain and ordinary meaning: a rated or nominal value between 300 and 360 degrees, allowing for manufacturing tolerances of no more than 0.1 degree.

- Intrinsic evidence: 1:42-44, 55-60, 2:1-6, 44-53, 5:57-61, 6:17-22, 6:62-7:3, 15:56-62, 20:8-19.

Claim 9:

- **about 10 inches to about 15 inches:** see claim 2.

Claim 10:

- **less than about 20 degrees:** This term should be given its plain and ordinary meaning: a rated or nominal value less than 20 degrees, allowing for manufacturing tolerances of no more than 0.1 degree.

- Intrinsic evidence: Figs. 2-3, 5-6, 13A, 23A, 10:8-32, 61-63, 20:8-19.

Claim 11:

- **first and second flexible limbs attached to a central rail:** see claim 1.
- **a first string guide mounted to the first flexible limb by a first axle mount and rotatable around a first axis located a fixed distance from the first flexible limb by the first axle mount:** see claim 1.
- **first upper and lower power cable journals on opposite sides of the first draw string journal each comprising a path that is not co-planar with the first**

plane of rotation: This term should be given its plain and ordinary meaning: one groove or path, for receiving a power cable, located vertically above the first draw string journal and another groove or path, for receiving a power cable, located vertically below the first draw string journal, the grooves or paths sloping upwards or downwards in relation to the first plane of rotation.

- Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 28A-B, 29, 6:6-22, 6:42-7:3, 7:37-47, 11:64-12:18, 15:27-55.

- **a second string guide mounted to the second flexible limb by a second axle mount and rotatable around a second axis located a fixed distance from the second flexible limb by the second axle mount:** see claim 1.
- **second upper and lower power cable journals on opposite sides of the second draw string journal each comprising a path that is not co-planar with the second plane of rotation:** This term should be given its plain and ordinary meaning: one groove or path, for receiving a power cable, located vertically above the second draw string journal and another groove or path, for receiving a power cable, located vertically below the second draw string journal, the grooves or paths sloping upwards or downwards in relation to the second plane of rotation.
 - Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 28A-B, 29, 6:6-22, 6:42-7:3, 7:37-47, 11:64-12:18, 15:27-55.
- **a draw string received in the first and second string guide journals in a reverse draw configuration with the draw string adjacent a down-range side when in a released configuration, wherein the draw string unwinds from the first and second string guide journals as it translates from the released configuration to a drawn configuration:** see claim 1.
- **about 4 inches to about 8 inches:** see claim 1.
- **less than about 25 degrees:** see claim 1.

- 1 • **a pair of first power cables having first ends received in the first upper and**
2 **lower power cable journals and second ends attached to static attachment**
3 **points on the crossbow:** This term should be given its plain and ordinary
4 meaning: two power cables, each of which has a first end and a second end, where
5 the first end of one cable is received in the first upper power cable journal, the
6 first end of the other cable is received in the first lower power cable journal, and
7 the second ends of the cables are secured to posts secured to the crossbow.
 - 8 ○ Intrinsic evidence: Figs. 6-9B, 12, 13A-B, 14A, 15, 21A-24C, 28A-B,
 - 9 28F, 29, 3:32-36, 6:6-22, 6:42-7:3, 7:37-47, 11:64-12:18, 14:58-15:15,
 - 10 15:27-55.
- 11 • **a pair of second power cables having first ends received in the second upper**
12 **and lower power cable journals and second ends attached to static**
13 **attachment points on the crossbow:** This term should be given its plain and
14 ordinary meaning: two power cables, each of which has a first end and a second
15 end, where the first end of one cable is received in the second upper power cable
16 journal, the first end of the other cable is received in the second lower power
17 cable journal, and the second ends of the cables are secured to posts secured to the
18 crossbow.
 - 19 ○ Intrinsic evidence: Figs. 6-9B, 12, 13A-B, 14A, 15, 21A-24C, 28A-B,
 - 20 28F, 29, 3:32-36, 6:6-22, 6:42-7:3, 7:37-47, 11:64-12:18, 14:58-15:15,
 - 21 15:27-55.
- 22 • **the first and second axes move continuously toward the center rail as the**
23 **drawstring is moved from the released configuration to the drawn**
24 **configuration:** see claim 1.

25 Claim 12:

26

27

- **helical power cable journal:** This term should be given its plain and ordinary meaning: grooves or paths (for power cables) having a helical or spiral configuration sloping upwards or downwards.
 - Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 28A-B, 29, 6:6-22, 6:42-7:3, 7:37-47, 11:64-12:18, 15:27-55.

Claim 13:

- **wherein the first and second upper and lower power cable journals comprise a width at least twice a width of the first and second pairs of power cables:**

This term should be given its plain and ordinary meaning: each of the first and second upper and lower power cable grooves or paths is at least twice as wide as a width of the upper or lower power cables, i.e., such that two such cables could fit adjacently in one groove or path.

 - Intrinsic evidence: Fig. 9C, 2:41-43, 7:10-16, 8:6-12, 8:45-52.

Claim 15:

- **first and second flexible limbs attached to a central rail:** see claim 1.
- **a first string guide mounted to the first flexible limb by a first axle mount and rotatable around a first axis located a fixed distance from the first flexible limb by the first axle mount:** see claim 1.
- **first upper and lower power cable journals on opposite sides of the first draw string journal:** This term should be given its plain and ordinary meaning: one groove or path, for receiving a power cable, located vertically above the first draw string journal and another groove or path, for receiving a power cable, located vertically below the first draw string journal.
 - Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 28A-B, 29, 6:6-22, 6:42-7:3, 7:37-47, 11:64-12:18, 15:27-55.

- 1 • **a second string guide mounted to the second flexible limb by a second axle**
2 **mount and rotatable around a second axis located a fixed distance from the**
3 **second flexible limb by the second axle mount:** see claim 1.
- 4 • **second upper and lower power cable journals on opposite sides of the second**
5 **draw string journal:** This term should be given its plain and ordinary meaning:
6 one groove or path, for receiving a power cable, located vertically above the
7 second draw string journal and another groove or path, for receiving a power
8 cable, located vertically below the second draw string journal.
 - 9 ○ Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 28A-B, 29, 6:6-
10 22, 6:42-7:3, 7:37-47, 11:64-12:18, 15:27-55.
- 11 • **a draw string received in the first and second string guide journals in a**
12 **reverse draw configuration with the draw string adjacent a down-range side**
13 **when in a released configuration, wherein the draw string unwinds from the**
14 **first and second string guide journals as it translates from the a released**
15 **configuration to a drawn configuration:** see claim 1.
- 16 • **about 4 inches to about 8 inches:** see claim 1.
- 17 • **less than about 25 degrees:** see claim 1.
- 18 • **a pair of first power cables having first ends received in the first upper and**
19 **lower power cable journals and second ends attached to static attachment**
20 **points on the crossbow:** This term should be given its plain and ordinary
21 meaning: two power cables, each of which has a first end and a second end, where
22 the first end of one cable is received in the first upper power cable journal, the
23 first end of the other cable is received in the first lower power cable journal, and
24 the second ends of the cables are secured to posts secured to the crossbow.
 - 25 ○ Intrinsic evidence: Figs. 6-9B, 12, 13A-B, 14A, 15, 21A-24C, 28A-B,
26 28F, 29, 3:32-36, 6:6-22, 6:42-7:3, 7:37-47, 11:64-12:18, 14:58-15:15,
27 15:27-55.

- **a pair of second power cables having first ends received in the second upper and lower power cable journals and second ends attached to static attachment points on the crossbow:** This term should be given its plain and ordinary meaning: two power cables, each of which has a first end and a second end, where the first end of one cable is received in the second upper power cable journal, the first end of the other cable is received in the second lower power cable journal, and the second ends of the cables are secured to posts secured to the crossbow.

- Intrinsic evidence: Figs. 6-9B, 12, 13A-B, 14A, 15, 21A-24C, 28A-B, 28F, 29, 3:32-36, 6:6-22, 6:42-7:3, 7:37-47, 11:64-12:18, 14:58-15:15, 15:27-55.

- **wherein the first and second upper and lower power cable journals comprise a width at least twice a width of the first and second power cables:** see claim 13.

Claim 16:

- **helical power cable journal:** see claim 12.

Claim 19:

- **between about 300 degrees to about 360 degrees:** see claim 5.

Claim 20:

- **less than about 20 degrees:** see claim 10.

Claim 24:

- **between about 300 degrees to about 360 degrees:** see claim 5.

Claim 25:

- **less than about 20 degrees:** see claim 10.

V. **U.S. Patent No. 10,712,118 (“118 Patent”)**

Claim 1:

- 1 • **a crossbow:** This claim term appears in the preamble and thus is non-limiting.
2 Furthermore, the body recites the elements comprising the crossbow. In the event
3 that this claim term is limiting, it should be given its plain and ordinary meaning:
4 its core elements are a central portion (also known as a stock, barrel, or beam) to
5 which a flexible, energy-storing bow is secured (the bow being of one piece or of
6 multiple “limbs”), to which a cable (or string or wire) is attached, the drawing of
7 which bends the bow and allows a projectile (or arrow or bolt) to be fired.
 - 8 ○ Intrinsic evidence: Figs. 11-12, 13A, 14A-B, 23A, 28A, 31A-B, 4:63-5:2,
9 5:29-36, 65-67, 8:56-67, 9:29-38, 10:4-21, 25:18-30; U.S. Patent
10 Application No. 14/071,723 (incorporated by reference at 10:1-3 and
11 published as U.S. Patent Pub. 2014/0261360) Figs. 1, 2, 4-8, 11, 17, 19A-
12 21C, 23A-26B; WIPO Patent Pub. WO 2011/141771 Figs. 1, 2, 8, 11, 12,
13 1:4-12, 7:6-8:10, 13:18-23, 22:30-23:1, 23:30-33; WIPO Patent Pub. WO
14 2011/158062 Figs. 1, 3, 9-11, 17-19, 1:4-12, 6:24, 6:33-8:5, 12:28-32,
15 22:22-27, 26:18-27:5; U.S. Patent Pub. 2011/0308508 Fig. 1, [0006]-
16 [0007], [0011]; U.S. Patent 7,328,693 Figs. 4-7, 12-13, 1:38-44, 55-59,
17 2:39-44, 3:30-35, 44-47, 4:18-40; U.S. Patent Pub. 2011/0030666 Figs. 1,
18 4, 5, 9, 12, 13, 16-18, [0002], [0007], [0018], [0021], [0022], [0026],
19 [0029], [0030], [0033]-[0035], [0038]; U.S. Patent No. 8,191,541 Figs. 1,
20 3-5, 8, 1:19-29, 2:15-25, 3:4-5, 34-65; U.S. Patent Pub. 2012/0125302
21 Figs. 1-8, 12, [0002], [0003], [0049], [0052]; October 22, 2018 Office
22 Action; June 17, 2019 Office Action; September 6, 2019 Office Action.
- 23 • **first and second flexible limbs attached to a central rail:** This term should be
24 given its plain and ordinary meaning: first and second bendable energy-storage
25 components secured directly or indirectly to the stock, barrel, or beam.
 - 26 ○ Intrinsic evidence: Figs. 10-14B, 15, 21A, 23A, 28A, 29, 31A-C, 8:56-63,
27 9:29-38, 10:4-19, 11:41-54, 25:18-26.

- 1 • **a first string guide having a first axle engaged with a first bearing located in**
2 **a first axle mount mounted to the first flexible limb and rotatable around a**
3 **first axis located a first fixed distance from the first flexible limb by the first**
4 **axle mount:** This term should be given its plain and ordinary meaning: first cam
5 or pulley having a first axle received in a first bearing that is located in a
6 supporting component (such as a block or bracket) that is secured directly or
7 indirectly to the first flexible limb, where the cam or pulley is able to rotate
8 around a first axis, which the supporting component keeps a first fixed distance
9 away from the limb.
 - 10 ○ Intrinsic evidence: Figs. 1-14B, 15-16B, 21A-24C, 28A-B, 28F, 29, 31A-
11 C, 6:47-57, 7:53-55, 8:17-23, 9:1-13, 9:39-45, 11:55-12:21.
- 12 • **first upper and lower helical power cable journals on opposite sides of the**
13 **first draw string journal:** Assuming the word-pair conjunctions are an error, this
14 term should be given its plain and ordinary meaning: one groove or path, for
15 receiving a power cable, located vertically above the first draw string journal and
16 another groove or path, for receiving a power cable, located vertically below the
17 first draw string journal, the grooves or paths having a helical or spiral
18 configuration sloping upwards or downwards in relation to the first draw string
19 journal.
 - 20 ○ Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B-24C, 28A-B, 29, 31C, 5:10-
21 12, 6:58-7:10, 7:36-8:3, 8:33-55, 13:27-50, 17:8-46.
- 22 • **a second string guide having a second axle engaged with a second bearing**
23 **located in a second axle mount mounted to the second flexible limb and**
24 **rotatable around a second axis located a second fixed distance from the**
25 **second flexible limb by the second axle mount:** This term should be given its
26 plain and ordinary meaning: second cam or pulley having a second axle received
27 in a second bearing that is located in a supporting component (such as a block or

1 bracket) that is secured directly or indirectly to the second flexible limb, where
2 the cam or pulley is able to rotate around a second axis, which the supporting
3 component keeps a second fixed distance away from the limb.

- 4 ○ Intrinsic evidence: Figs. 1-14B, 15-16B, 21A-24C, 28A-B, 28F, 29, 31A-
5 C, 6:47-57, 7:53-55, 8:17-23, 9:1-13, 9:39-45, 11:55-12:21.

- 6 • **second upper and lower helical power cable journals on opposite sides of the**
7 **second draw string journal:** This term should be given its plain and ordinary
8 meaning: one groove or path, for receiving a power cable, located vertically
9 above the second draw string journal and another groove or path, for receiving a
10 power cable, located vertically below the second draw string journal, the grooves
11 or paths having a helical or spiral configuration sloping upwards or downwards in
12 relation to the second draw string journal.

- 13 ○ Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B-24C, 28A-B, 29, 31C, 5:10-
14 12, 6:58-7:10, 7:36-8:3, 8:33-55, 13:27-50, 17:8-46.

- 15 • **a draw string received in the first and second draw string journals in a**
16 **reverse draw configuration with the draw string adjacent a down-range side**
17 **when in a released configuration, wherein the draw string unwinds from the**
18 **first and second draw string journals as it translates from the released**
19 **configuration to a drawn configuration:** This term should be given its plain and
20 ordinary meaning: a draw string or bowstring received in the grooves or paths (of
21 the cams or pulleys) such that the draw string rests in the uncocked or released
22 position on the downrange side of the string guides, wherein the draw string
23 unwinds off the grooves or paths as the crossbow is being cocked or drawn.

- 24 ○ Intrinsic evidence: Figs. 1-6, 10-14B, 21A, 23A, 28A-B, 28F, 31A-B,
25 1:60-65, 6:19-21, 37-57, 7:7-9, 8:24-32, 64-67, 9:14-19, 17:4-7, 33-36.

- 26 • **a pair of first power cables having first ends received in the first upper and**
27 **lower helical power cable journals and second ends attached to static**

attachment points on the crossbow: This term should be given its plain and ordinary meaning: two power cables, each of which has a first end and a second end, where the first end of one cable is received in the first upper power cable journal, the first end of the other cable is received in the first lower power cable journal, and the second ends of the cables are secured to posts secured to the crossbow.

- Intrinsic evidence: Figs. 6-9B, 12, 13A-B, 14A, 15, 21A-24C, 28A-B, 28F, 29, 31A-B, 2:50-54, 3:35-38, 6:7-18, 6:47-7:7, 7:36-64, 8:33-52, 9:52-57, 16:36-63, 17:11-33.

- **a pair of second power cables having first ends received in the second upper and lower helical power cable journals and second ends attached to static**

attachment points on the crossbow: This term should be given its plain and ordinary meaning: two power cables, each of which has a first end and a second end, where the first end of one cable is received in the second upper power cable journal, the first end of the other cable is received in the second lower power cable journal, and the second ends of the cables are secured to posts secured to the crossbow.

- Intrinsic evidence: Figs. 6-9B, 12, 13A-B, 14A, 15, 21A-24C, 28A-B, 28F, 29, 31A-B, 2:50-54, 3:35-38, 6:7-18, 6:47-7:7, 7:36-64, 8:33-52, 9:52-57, 16:36-63, 17:11-33.

- **the first and second axles move continuously toward the center rail as the draw string is moved from the released configuration to the drawn configuration and the first and second axles move continuously away from the center rail as the draw string is moved from the drawn configuration to the released configuration:** This term should be given its plain and ordinary meaning: as the crossbow is cocked or drawn, the distance between the center rail and the first and second axes continuously decreases; as the crossbow is uncocked

or fired, the distance between the center rail and the first and second axes continuously increases.

- Intrinsic evidence: Figs. 4-6, 1:66-2:3, 6:21-34, 61-65, 8:53-55.

Claim 2:

- **about 8 inches to about 15 inches:** This term should be given its plain and ordinary meaning: a rated or nominal value between 8 and 15 inches, allowing for manufacturing tolerances of no more than 0.1 inch.
 - Intrinsic evidence: Figs. 2, 5, 13A, 14A, 23A, 28A, 28F, 31B, 3:6-9, 7:14-24, 11:59-66, 26:33-44.

Claim 9:

- **less than about 25 degrees:** This term should be given its plain and ordinary meaning: a rated or nominal value less than 25 degrees, allowing for manufacturing tolerances of no more than 0.1 degree.
 - Intrinsic evidence: Figs. 2-3, 5-6, 13A, 23A, 3:9-10, 31-35, 11:18-23, 12:2-4, 26:10-22, 33-44.

Claim 11:

- **a crossbow:** see claim 1.
- **first and second flexible limbs attached to a central rail:** see claim 1.
- **a first string guide having a first axle engaged with a first bearing located in a first axle mount mounted to the first flexible limb and rotatable around a first axis located a first fixed distance from the first flexible limb by the first axle mount:** see claim 1.
- **first upper and lower power cable journals on opposite sides of the first draw string journal each comprising a path that is not in a plane parallel with the first plane of rotation:** This term should be given its plain and ordinary meaning: one groove or path, for receiving a power cable, located vertically above the first draw string journal and another groove or path, for receiving a power cable,

located vertically below the first draw string journal, the grooves or paths sloping upwards or downwards in relation to the first plane of rotation.

○ Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B-24C, 28A-B, 29, 31C, 5:10-12, 6:58-7:10, 7:36-8:3, 8:33-55, 13:27-50, 17:8-46.

- **a second string guide having a second axle engaged with a second bearing located in a second axle mount mounted to the second flexible limb and rotatable around a second axis located a second fixed distance from the second flexible limb by the second axle mount:** see claim 1.
- **second upper and lower power cable journals on opposite sides of the second draw string journal each comprising a path that is not in a plane parallel with the first second of rotation:** This term should be given its plain and ordinary meaning: one groove or path, for receiving a power cable, located vertically above the second draw string journal and another groove or path, for receiving a power cable, located vertically below the second draw string journal, the grooves or paths sloping upwards or downwards in relation to the second plane of rotation.

○ Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B-24C, 28A-B, 29, 31C, 5:10-12, 6:58-7:10, 7:36-8:3, 8:33-55, 13:27-50, 17:8-46.
- **a draw string received in the first and second draw string journals in a reverse draw configuration with the draw string adjacent a down-range side when in a released configuration, wherein the draw string unwinds from the first and second draw string journals as it translates from the released configuration to a drawn configuration:** see claim 1.
- **first and second power cables received in the first and second upper and lower power cable journals, respectively. and operatively attached to static attachment points on the crossbow:** Assuming the period in this claim term is an error, this term should be given its plain and ordinary meaning: two power

cables, each of which has one end received in the respective first or second upper or lower power cable journal, and the other end secured to a post secured to the crossbow.

- Intrinsic evidence: Figs. 6-9B, 12, 13A-B, 14A, 15, 21A-24C, 28A-B, 28F, 29, 31A-B, 2:50-54, 3:35-38, 6:7-18, 6:47-7:7, 7:36-64, 8:33-52, 9:52-57, 16:36-63, 17:11-33.
- **the first and second axles move continuously toward the center rail as the draw string is moved from the released configuration to the drawn configuration and the first and second axles move continuously away from the center rail as the draw string is moved from the drawn configuration to the released configuration:** see claim 1.
- **helical power cable journal:** This term should be given its plain and ordinary meaning: grooves or paths (for power cables) having a helical or spiral configuration sloping upwards or downwards.
 - Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B-24C, 28A-B, 29, 31C, 5:10-12, 6:58-7:10, 7:36-8:3, 8:33-55, 13:27-50, 17:8-46.

Claim 13:

- **between about 300 degrees to about 360 degrees:** This term should be given its plain and ordinary meaning: a rated or nominal value between 300 and 360 degrees, allowing for manufacturing tolerances of no more than 0.1 degree.
 - Intrinsic evidence: Abstract, 2:34-46, 62-64, 3:38-49, 4:7-22, 6:40-46, 7:8-10, 56-64, 17:37-46, 26:33-44.

Claim 14:

- **less than about 25 degrees:** see claim 9.

Claim 19:

- **a crossbow:** see claim 1.
- **first and second flexible limbs attached to a central rail:** see claim 1.

- 1 • **a first string guide mounted to the first flexible limb and rotatable around a**
2 **first axis located a first fixed distance from the first flexible limb:** This term
3 should be given its plain and ordinary meaning: first cam or pulley mounted
4 directly or indirectly to the first flexible limb and able to rotate around a first axis
5 that is kept a first fixed distance away from the limb.
 - 6 ○ Intrinsic evidence: Figs. 1-14B, 15-16B, 21A-24C, 28A-B, 28F, 29, 31A-
7 C, 6:47-57, 7:53-55, 8:17-23, 9:1-13, 9:39-45, 11:55-12:21.
- 8 • **first upper and lower helical power cable journals on opposite sides of the**
9 **first draw string journal:** See claim 1.
- 10 • **a second string guide mounted to the second flexible limb and rotatable**
11 **around a second axis located a second fixed distance from the second flexible**
12 **limb:** This term should be given its plain and ordinary meaning: second cam or
13 pulley mounted directly or indirectly to the second flexible limb and able to rotate
14 around a second axis that is kept a second fixed distance away from the limb.
 - 15 ○ Intrinsic evidence: Figs. 1-14B, 15-16B, 21A-24C, 28A-B, 28F, 29, 31A-
16 C, 6:47-57, 7:53-55, 8:17-23, 9:1-13, 9:39-45, 11:55-12:21.
- 17 • **second upper and lower helical power cable journals on opposite sides of the**
18 **second draw string journal:** See claim 1.
- 19 • **a draw string received in the first and second draw string journals in a**
20 **reverse draw configuration with the draw string adjacent a down-range side**
21 **when in a released configuration, wherein the draw string unwinds from the**
22 **first and second draw string journals as it translates from the released**
23 **configuration to a drawn configuration:** see claim 1.
- 24 • **the first and second axes move continuously toward the center rail as the**
25 **draw string is moved from the released configuration to the drawn**
26 **configuration and the first and second axes move continuously away from the**
27

center rail as the draw string is moved from the drawn configuration to the released configuration: see claim 1.

VI. U.S. Patent No. 11,085,728 (“’728 Patent”)

Claim 10:

- **a crossbow:** This claim term appears in the preamble and thus is non-limiting. Furthermore, the body recites the elements comprising the crossbow. In the event that this claim term is limiting, it should be given its plain and ordinary meaning: its core elements are a central portion (also known as a stock, barrel, or beam) to which a flexible, energy-storing bow is secured (the bow being of one piece or of multiple “limbs”), to which a cable (or string or wire) is attached, the drawing of which bends the bow and allows a projectile (or arrow or bolt) to be fired.
 - Intrinsic evidence: Figs. 11-12, 13A, 14A-B, 23A, 28A, 4:36-42, 5:1-8, 7:60-8:4, 8:33-49, 9:8-25; U.S. Patent Application No. 14/071,723 (incorporated by reference at 9:5-7 and published as U.S. Patent Pub. 2014/0261360) Figs. 1, 2, 4-8, 11, 17, 19A-21C, 23A-26B; WIPO Patent Pub. WO 2011/141771 Figs. 1, 2, 8, 11, 12, 1:4-12, 7:6-8:10, 13:18-23, 22:30-23:1, 23:30-33; WIPO Patent Pub. WO 2011/158062 Figs. 1, 3, 9-11, 17-19, 1:4-12, 6:24, 6:33-8:5, 12:28-32, 22:22-27, 26:18-27:5; U.S. Patent Pub. 2011/0308508 Fig. 1, [0006]-[0007], [0011]; U.S. Patent 7,328,693 Figs. 4-7, 12-13, 1:38-44, 55-59, 2:39-44, 3:30-35, 44-47, 4:18-40; U.S. Patent Pub. 2011/0030666 Figs. 1, 4, 5, 9, 12, 13, 16-18, [0002], [0007], [0018], [0021], [0022], [0026], [0029], [0030], [0033]-[0035], [0038]; U.S. Patent No. 8,191,541 Figs. 1, 3-5, 8, 1:19-29, 2:15-25, 3:4-5, 34-65; U.S. Patent Pub. 2012/0125302 Figs. 1-8, 12, [0002], [0003], [0049], [0052]; June 25, 2019 Office Action.

- 1 • **first and second flexible limbs attached to a central rail:** This term should be
2 given its plain and ordinary meaning: first and second bendable energy-storage
3 components secured directly or indirectly to the stock, barrel, or beam.
 - 4 ○ Intrinsic evidence: Figs. 10-14B, 15, 21A, 23A, 28A, 29, 7:60-67, 8:33-
5 42, 9:8-25, 10:33-46.
- 6 • **a first string guide mounted to the first flexible limb by a first axle mount**
7 **and rotatable around a first axis located a fixed distance from the first**
8 **flexible limb by the first axle mount:** This term should be given its plain and
9 ordinary meaning: first cam or pulley mounted directly or indirectly to the first
10 flexible limb using a supporting component (such as a block or bracket) that
11 receives a first axle, and able to rotate around a first axis, which the supporting
12 component keeps a fixed distance away from the limb.
 - 13 ○ Intrinsic evidence: Figs. 1-14B, 15-16B, 21A-23A, 24A-C, 28A-B, 28F,
14 29, 5:62-6:5, 6:59-61, 7:21-27, 8:5-17, 43-52, 10:47-11:12.
- 15 • **first upper and lower helical power cable journals on opposite sides of the**
16 **first draw string journal each comprising a path that is helical to the first**
17 **plane of rotation:** This term should be given its plain and ordinary meaning: one
18 groove or path, for receiving a power cable, located vertically above the first draw
19 string journal and another groove or path, for receiving a power cable, located
20 vertically below the first draw string journal, the grooves or paths having a helical
21 or spiral configuration sloping upwards or downwards in relation to the first plane
22 of rotation.
 - 23 ○ Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 28A-B, 29, 6:6-
24 22, 6:42-7:3, 7:37-47, 11:64-12:18, 15:27-55.
- 25 • **a second string guide mounted to the second flexible limb by a second axle**
26 **mount and rotatable around a second axis located a fixed distance from the**
27 **second flexible limb by the second axle mount:** This term should be given its

plain and ordinary meaning: second cam or pulley mounted directly or indirectly to the second flexible limb using a supporting component (such as a block or bracket) that receives a second axle, and able to rotate around a second axis, which the supporting component keeps a fixed distance away from the limb.

- Intrinsic evidence: Figs. 1-14B, 15-16B, 21A-23A, 24A-C, 28A-B, 28F, 29, 5:62-6:5, 6:59-61, 7:21-27, 8:5-17, 43-52, 10:47-11:12.

- **second upper and lower helical power cable journals on opposite sides of the second draw string journal each comprising a path that is helical to the second plane of rotation:** This term should be given its plain and ordinary meaning: one groove or path, for receiving a power cable, located vertically above the second draw string journal and another groove or path, for receiving a power cable, located vertically below the second draw string journal, the grooves or paths having a helical or spiral configuration sloping upwards or downwards in relation to the second plane of rotation.

- Intrinsic evidence: Figs. 6-9B, 13B, 15, 21B, 23B, 24A-C, 28A-B, 29, 6:6-22, 6:42-7:3, 7:37-47, 11:64-12:18, 15:27-55.

- **a draw string received in the first and second draw string journals, wherein the draw string unwinds from the first and second draw string journals as the draw string translates from a released configuration to a drawn configuration:** This term should be given its plain and ordinary meaning: a draw string or bowstring received in the first and second grooves or paths (for receiving the draw string), wherein the draw string unwinds off the grooves or paths as the crossbow is being cocked or drawn.

- Intrinsic evidence: Figs. 1-6, 10-14B, 21A, 23A, 28A-B, 28F, 1:54-62, 5:54-6:5, 7:28-36, 8:18-23, 15:23-30, 52-55.

- **a pair of first power cables having first ends received in the first upper and lower power cable journals and second ends attached to first upper and**

lower attachment points on a first side of the center rail: This term should be given its plain and ordinary meaning: two power cables (one upper and one lower), each of which has a first end and a second end, where the first end of the upper cable is received in the first upper power cable journal and the second end is secured to an upper post secured to a first side of the center rail, and where the first end of the lower cable is received in the first lower power cable journal and the second end is secured to a lower post secured to the first side of the center rail.

- Intrinsic evidence: Figs. 6-9B, 12, 13A-B, 14A, 15, 21A-24C, 28A-B, 28F, 29, 3:32-36, 6:6-22, 6:42-7:3, 7:37-47, 11:64-12:18, 14:58-15:15, 15:27-55.

- **a pair of second power cables having first ends received in the second upper and lower power cable journals and second ends attached to second upper and lower attachment points on a second side of the center rail:** This term should be given its plain and ordinary meaning: two power cables (one upper and one lower), each of which has a first end and a second end, where the first end of the upper cable is received in the second upper power cable journal and the second end is secured to an upper post secured to a second side of the center rail, and where the first end of the lower cable is received in the second lower power cable journal and the second end is secured to a lower post secured to the second side of the center rail.

- Intrinsic evidence: Figs. 6-9B, 12, 13A-B, 14A, 15, 21A-24C, 28A-B, 28F, 29, 3:32-36, 6:6-22, 6:42-7:3, 7:37-47, 11:64-12:18, 14:58-15:15, 15:27-55.

- **the first and second axes move continuously toward the center rail as the draw string is moved from the released configuration to the drawn configuration:** This term should be given its plain and ordinary meaning: as the

crossbow is cocked or drawn, the distance between the center rail and the first and second axes continuously decreases.

- Intrinsic evidence: Figs. 4-6, 5:44-53, 6:10-13.

Claim 11:

- **the first pair of power cables are attached to the first upper and lower attachment points at respective positions disposed above a top surface of the**

first string guide and below a bottom surface of the first string guide: This term should be given its plain and ordinary meaning: the first upper power cable is secured to the first upper post and the first lower power cable is secured to the first lower post, which posts are respectively located at vertical elevations above and below the surfaces surrounding and adjacent to the first draw string journal and parallel to the first plane of rotation.

- Intrinsic evidence: Figs. 1-9A, 9C-12, 13A-14A, 15-16A, 21A-24C, 28A-B, 28F, 29, 2:57-67, 3:35-36, 6:49-7:3, 7:10-20, 50-55, 8:56-61, 14:58-15:15, 15:30-43.

- **the second pair of power cables are attached to the second upper and lower attachment points at respective positions disposed above a top surface of the second string guide and below a bottom surface of the second string guide:**

This term should be given its plain and ordinary meaning: the second upper power cable is secured to the second upper post and the second lower power cable is secured to the second lower post, which posts are respectively located at vertical elevations above and below the surfaces surrounding and adjacent to the second draw string journal and parallel to the second plane of rotation.

- Intrinsic evidence: Figs. 1-9A, 9C-12, 13A-14A, 15-16A, 21A-24C, 28A-B, 28F, 29, 2:57-67, 3:35-36, 6:49-7:3, 7:10-20, 50-55, 8:56-61, 14:58-15:15, 15:30-43.

1 Claim 12:

- 2 • **about 6 inches to about 8 inches:** This term should be given its plain and
3 ordinary meaning: a rated or nominal value between 6 and 8 inches, allowing for
4 manufacturing tolerances of no more than 0.1 inch.
5 ○ Intrinsic evidence: 3:5-7, 5:44-53, 10:1-7, 20:8-19.

6 **VII. §112(f) Claim Terms**

7 The following claim terms should be governed by 35 U.S.C. § 112(f):

8 '073 Patent, claim 29:

- 9 • **cocking mechanism:** The term's specified function is "cocking" the crossbow by
10 retracting the draw string to the drawn configuration. The corresponding
11 structure is identified by callout 484 in, e.g., 9:62-67, 12:19-28, 13:40-52, 14:21-
12 31 (*see also* 4:65-67; Figs. 18A, 19-20). And 14:21-31 explains that the cocking
13 mechanism 484 includes a rotating member 560 (e.g., spool), a drive shaft 564
14 (with a pair of drive gears 566), and a flexible tension member 585 (e.g., belt,
15 tape, or webbing material) attached to a string carrier 480.

16 '728 Patent, claim 13:

- 17 • **cocking mechanism:** The term's specified function is cocking the crossbow by
18 sliding on the center rail into engagement with the draw string in the released
19 configuration and sliding to a retracted position and moving the draw string to the
20 drawn configuration. The corresponding structure is identified by callout 484 in,
21 e.g., 9:62-67, 12:19-28, 13:40-52, 14:21-31 (*see also* 4:65-67; Figs. 18A, 19-20).
22 While the claim requires the cocking mechanism to slide on the center rail, 13:40-
23 52 distinguishes between the cocking mechanism 484 and the string carrier 480,
24 and 12:19-28 explains that is the string carrier 480 that slides along the center rail.
25 Likewise, 14:21-31 explains that the cocking mechanism 484 includes a rotating
26 member 560, a drive shaft 564 (with a pair of drive gears 566), and a flexible
27

tension member 585 attached to the string carrier 480, though the claim separates the rotating member and flexible tension member from the cocking mechanism.

- **rotating member:** The term's specified function is rotating to retract the flexible tension member. The corresponding structure is identified by callout 560 in, e.g., 14:21-31 and is identified as a spool (*see also* Figs. 18A, 19).
- **flexible tension member:** The term's specified function is tensing. The corresponding structure is identified by callout 585 in, e.g., 13:4-11 and 17:16-46 of the application as-filed (*see also* Fig. 18A) and is identified as a belt, a tape, or webbing material. 14:21-31.

VIII. Claim Terms Proposed By Ravin for Construction

1. **mounted to:** This term should be given its plain and ordinary meaning: connected to, either directly or indirectly.

- Intrinsic evidence:
 - '015 Patent: Figs. 4-8, 11, 2:2-9, 5:64-65, 6:5-6, 34-36, 8:1-14, 9:6-25, 10:18-20; December 12, 2015 Office Action.
 - '379 Patent: Figs. 11-12, 2:13-18, 3:4-7, 6:62-63, 7:3-4, 33-35, 15:7-9, 16:29-51, 17:29-33, 39-52, 18:28-48.
 - '936 Patent: Figs. 11-12, 27B, 2:12-14, 20-21, 3:4-6, 11-13, 52-53, 57-59, 8:28-29, 36-37, 66-67, 16:42-44, 17:63-67, 18:4-11, 63-65, 19:4-18, 20:11-29; August 15, 2017 Office Action.
 - '073 Patent: Figs. 11-12, 27B, 2:11-18, 8:5-6, 13-14, 43-45, 18:4-6, 21:11-27, 22:34-52, 23:37-52, 25:19-20, 31-40; August 16, 2017 Office Action; February 23, 2018 Office Action.
 - '118 Patent: Figs. 11-12, 27B, 2:16-18, 3:55-60, 9:1-2, 9-10, 39-41, 20:65-67, 27:38-56, 28:63-67, 29:6-17, 30:6-18, 55-65; October 22, 2018 Office Action; June 17, 2019 Office Action; September 6, 2019 Office Action.

○ ‘728 Patent: Figs. 11-12, 27B, 2:13-15, 20-21, 8:5-6, 13-14, 43-45, 18:4-6, 21:10-22, 47-52, 57-61, 24:15-28; June 6, 2019 Office Action.

2. **power cable take-up journal and power cable journals:** This term should be given its plain and ordinary meaning: part of a cam that accepts at least one power cable.

- Intrinsic evidence:

○ ‘015 Patent: Figs. 1-3, 5-8, 9A-C, 11, 1:52-54, 2:6-8, 18-23, 32-43, 58-67, 3:24-33, 5:65-6:4, 6:18-23, 36-42, 52-56, 8:1-15, 24-34, 44-52, 9:6-25, 37-45, 10:7-12, 20-36; December 16, 2013 Amendments and Remarks; December 12, 2015 Office Action; March 25, 2016 Office Action, April 25, 2016 Notice of Allowance.

○ ‘379 Patent: Figs. 1-3, 5-8, 9A-C, 11-12, 1:58-65, 2:15-19, 29-44, 3:32-41, 6:63-67, 7:16-22, 35-42, 52-57, 16:29-46, 52-67, 17:1-3, 39-52, 58-59, 18:1-5, 14-19, 36-48, 54-64; July 14, 2016 Office Action; July 26, 2016 Amendments and Remarks; September 27, 2016 Notice of Allowance.

○ ‘936 Patent: Figs. 1-3, 5-8, 9A-C, 11-12, 1:59-66, 2:14-48, 3:7-27, 39-43, 56-63, 4:1-10, 32-41, 8:29-35, 49-55, 9:1-5, 18-23, 17:62-67, 18:1-37, 19:4-17, 24-25, 30-35, 44-46, 20:17-29, 35-38; August 15, 2017 Office Action; September 4, 2017 Amendments and Remarks; November 22, 2017 Notice of Allowance.

○ ‘073 Patent: Figs. 1-3, 5-8, 9A-C, 11-12, 1:61-65, 2:13-42, 3:32-35, 4:17-26, 8:6-12, 26-32, 45-49, 62-67, 26:1-6, 15-23, 29-33; August 16, 2017 Office Action; October 11, 2017 Amendments and Remarks; November 17, 2017 Amendments and Remarks; February 23, 2018 Office Action; March 3, 2018 Amendments and Remarks; April 5, 2018 Amendments and Remarks; September 28, 2018 Office Action.

○ ‘118 Patent: Figs. 1-3, 5-9C, 11-12, 2:4-6, 3:60-66, 4:7-11, 18-22, 44-53, 9:2-8, 22-28, 41-45, 58-63, 30:6-19, 25-34, 40-46; October 22, 2018 Office Action; January 22, 2019 Amendments and Remarks; April 4, 2019

1 Notice of Allowance; June 17, 2019 Office Action; June 20, 2019

2 Amendments and Remarks; September 6, 2019 Final Office Action.

- 3 ○ ‘728 Patent: Figs. 1-3, 5-9C, 11-12, 1:63-67, 2:1-6, 15-26, 30-46, 3:32-35,
4 4:17-26, 8:6-12, 26-32, 45-49, 62-67, 24:14-28, 34-42, 47-50; June 6,
5 2019 Office Action; December 23, 2019 Amendments and Remarks;
6 March 20, 2020 Office Action; May 20, 2020 Amendments and Remarks;
7 June 10, 2020 Notice of Allowance.

- 8 3. **upper and lower surfaces:** This term should be given its plain and ordinary meaning:
9 top and bottom surfaces.

10 • Intrinsic evidence:

- 11 ○ ‘015 Patent: December 16, 2013 Amendments and Remarks.
12 ○ ‘379 Patent: 2:64-67, 17:16-22; July 14, 2016 Office Action; July 26, 2016
13 Amendments and Remarks.
14 ○ ‘936 Patent: 2:59-65, 18:49-55; September 4, 2017 Amendments and
15 Remarks.
16 ○ ‘073 Patent: February 23, 2018 Final Office Action.
17 ○ ‘118 Patent: April 4, 2019 Notice of Allowance.
18 ○ ‘728 Patent: June 6, 2019 Office Action.

- 19 4. **extending away from:** This term should be given its plain and ordinary meaning:
20 extends a distance away from something.

21 • Intrinsic evidence:

- 22 ○ ‘015 Patent: December 12, 2015 Office Action; March 25, 2016 Office
23 Action.
24 ○ ‘379 Patent: 17:37-38, 18:34-35.
25 ○ ‘936 Patent: 3:4-6, 50-52, 19:2-3, 20:15-16; August 15, 2017 Office
26 Action.
27 ○ ‘073 Patent: August 16, 2017 Office Action; February 23, 2018 Office
Action.

1 ○ ‘118 Patent: October 22, 2018 Office Action; April 4, 2019 Notice of
2 Allowance; September 6, 2019 Office Action.

3 ○ ‘728 Patent: June 6, 2019 Office Action.

4 5. **extending in a direction perpendicular to the respective plane of rotation:** This term
5 should be given its plain and ordinary meaning: extends perpendicularly with respect to a
6 plane of rotation.

7 • Intrinsic evidence:

8 ○ ‘015 Patent: Figs. 7-8, 11-12, 2:3-11, 2:34-35, 4:47-50, 5:65-6:9, 6:34-39,
9 8:1-14, 8:44-48, 9:6-26, 10:20-28; December 11, 2015 Office Action;
10 January 4, 2016 Amendment and Response and Examiner’s Interview
11 Summary; March 25, 2016 Office Action; March 30, 2016 Amendment
12 and Response and Examiner’s Interview Summary; April 25, 2016 Notice
13 of Allowability.

14 ○ ‘379 Patent: Figs. 7-8, 11-12, 5:43-46, 6:62-67, 7:3-6, 7:35-39, 16:29-51,
15 18:14-19, 17:39-52, 18:36-49; July 14 2016 Office Action; July 27, 2016
16 Amendment and Response.

17 ○ ‘936 Patent: Figs. 7-8, 11-12, 2:14-28, 3:7-18, 3:39-43, 3:53-63, 6:43-46,
18 8:29-40, 9:1-5, 17:62-18:13, 19:4-18, 19:44-20:3, 20:17-29; August 15,
19 2017 Office Action; September 5, 2017 Amendment and Response and
20 Examiner’s Interview Summary.

21 ○ ‘073 Patent: Figs. 7-8, 11-12, 2:13-23, 6:46-49, 8:6-17, 8:45-49, 21:11-27,
22 22:34-52, 23:37-52, 25:31-26:6; February 10, 2017 Preliminary
23 Amendment; August 16, 2017 Office Action; October 5, 2017
24 Amendment and Response; October 11, 2022 Corrected Amendment and
25 Response; November 17, 2022 Supplemental Amendment and Response;
26 November 22, 2017 Second Supplemental Amendment and Response and
27 Examiner’s Interview Summary; February 23, 2018 Office Action; March

4, 2018 Amendment; April 6, 2018 Amendment with RCE; September 28, 2018 Office Action; October 19, 2018 Amendment and Response.

- ‘118 Patent: Figs. 7-8, 11-12, 12, 2:18-20, 3:60-66, 7:4-9, 7:40-43, 9:2-13, 9:41-45, 27:38-56, 28:63-29:17, 30:6-19, 30:55-31:3; October 22, 2018 Office Action; January 22, 2019 Amendment and Response; April 9, 2019 Notice of Allowability; May 16, 2019 Amendment; June 17, 2019 Office Action; June 20, 2019 Amendment and Response; September 6, 2019 Office Action; February 10, 2020 Response to Office Action; June 11, 2020 Response to Rule 312 Communication.
- ‘728 Patent: Figs. 7-8, 11-12, 2:16-26, 6:46-49, 8:6-17, 8:45-49, 21:10-26, 22:47-63, 24:15-28; June 25, 2019 Office Action; August 12, 2019 Agenda and Request for an Examiner Interview; December 23, 2019 Response to Office Action; May 20, 2020 Response to Office Action.

6. **pass under:** This term should be given its plain and ordinary meaning: go below.

- Intrinsic evidence:

- ‘015 Patent: Figs. 7-8, 4:55-56; January 4, 2016 Amendment and Response and Examiner's Interview Summary.
- ‘379 Patent: Figs. 7-8, 15, 21A-B, 23-B, 24A-B, 2:66-3:3, 5:51-53, 9:39-42, 12:32-35, 12:62-66, 17:16-22, 18:6-12; July 27, 2016 Amendment and Response.
- ‘936 Patent: Figs. 7-8, 15, 21A-B, 23A-B, 24A-B, 2:59-65, 3:33-39, 6:51-53, 11:4-6, 14:27-31, 13:64-66, 18:49-55, 19:36-41; September 5, 2017 Amendment and Response and Examiner's Interview Summary.
- ‘073 Patent: Figs. 7-8, 15, 21A-B, 23A-B, 24A-B, 2:57-60, 6:54-56, 12:3-5, 15:6-9, 15:36-40, 22:4-10, 23:28-34, 24:34-40; April 6, 2018 Amendment with RCE; October 19, 2018 Amendment and Response.
- ‘118 Patent: Figs. 7-8, 15, 21A-B, 23A-B, 24A-B, 2:55-61, 7:48-50, 13:35-37, 16:51-54, 17:17-21, 28:33-39; October 22, 2018 Office Action;

January 22, 2019 Amendment and Response; May 16, 2019 Amendment; June 20, 2019 Amendment and Response; February 10, 2020 Response to Office Action; June 11, 2020 Response to Rule 312 Communication.

○ ‘728 Patent: Figs. 7-8, 15, 21A-B, 23A-B, 24A-B, 2:60-63, 6:54-56, 12:3-5, 15:6-9, 15:36-40, 22:6-9, 23:37-40, 24:65-25:3; June 25, 2019 Office Action; August 12, 2019 Agenda and Request for an Examiner Interview; December 23, 2019 Response to Office Action; May 20, 2020 Response to Office Action.

7. **first ends:** This term should be given its plain and ordinary meaning: a terminal portion of the power cable.

- Intrinsic evidence:

- ‘015 Patent: Figs. 4, 6-8, 10-11, 3:45-56, 4:18-61, 5:37-46, 6:16-24, 8:35-38, 8:65-67, 9:46-49, 10:37-40; December 11, 2015 Office Action; January 4, 2016 Amendment and Response and Examiner's Interview Summary; March 30, 2016 Amendment and Response and Examiner's Interview Summary.
- ‘379 Patent: Figs. 4, 6-8, 10-12, 16A-B, 21A-24C, 2:23-28, 2:64-67, 5:12-28, 5:39-58, 6:34-44, 7:14-15, 7:46-47, 9:43-52, 12:15-13:2, 17:16-23, 18:6-11; July 27, 2016 Amendment and Response.
- ‘936 Patent: Figs. 4, 6-8, 10-12, 16A-B, 21A-24C, 2:59-65, 3:33-39, 4:43-48, 6:13-24, 6:51-53, 7:34-42, 8:47-48, 9:12-13, 11:9-19, 13:54-14:46, 18:49-55, 19:36-41; September 5, 2017 Amendment and Response and Examiner’s Interview Summary.
- ‘073 Patent: Figs. 4, 6-8, 10-12, 16A-B, 21A-24C 2:54-60, 5:31-35, 6:6-17, 6:42-56, 7:37-47, 8:24-25, 8:56-57, 12:8-18, 14:52-15:55, 21:39-46, 22:64-23:4, 23:28-34, 23:64-24:4, 24:34-40, 26:15-23; February 10, 2017 Preliminary Amendment; August 16, 2017 Office Action; October 5, 2017 Amendment and Response; October 11, 2022 Corrected Amendment and

Response; November 17, 2022 Supplemental Amendment and Response; November 22, 2017 Second Supplemental Amendment and Response and Examiner's Interview Summary; February 23, 2018 Office Action; March 4, 2018 Amendment; April 6, 2018 Amendment with RCE; October 19, 2018 Amendment and Response.

○ '118 Patent: Figs. 4, 6-8, 10-12, 16A-B, 21A-24C, 2:31-34, 2:55-61, 4:12-14, 3:35-38, 6:7-11, 6:58-7:2, 7:48-50, 8:33-43, 9:20-21, 9:52-53, 13:41-50, 16:30-17:36, 27:64-28:4, 28:33-39, 30:25-34; October 22, 2018 Office Action; January 22, 2019 Amendment and Response; April 9, 2019 Notice of Allowability; May 16, 2019 Amendment; June 17, 2019 Office Action; June 20, 2019 Amendment and Response; February 10, 2020 Response to Office Action; June 11, 2020 Response to Rule 312 Communication.

○ '728 Patent: Figs. 4, 6-8, 10-12, 16A-B, 21A-24C, 2:57-63, 5:33-37, 6:6-16, 6:42-57, 7:37-47, 8:24-25, 8:56-57, 12:8-19, 14:52-15:55, 21:35-42, 21:63-22:9, 22:38-44, 23:6-14, 23:27-40, 23:63-64, 24:1-2, 24:6-12, 24:34-42, 24:65-25:3; June 25, 2019 Office Action; August 12, 2019 Agenda and Request for an Examiner Interview; December 23, 2019 Response to Office Action; March 20, 2020 Office Action; May 20, 2020 Response to Office Action.

8. **central portion:** This term should be given its plain and ordinary meaning: intermediate area.

- Intrinsic evidence:

○ '015 Patent: Figs. 11-12, 1:66-2:2, 5:52-59, 6:24-52 7:64-67, 8:35-40, 9:2-5, 9:46-49, 10:1-2, 10:15-19, 10:38-43; December 11, 2015 Office Action; January 4, 2016 Amendment and Response and Examiner's Interview Summary; March 30, 2016 Amendment and Response and Examiner's Interview Summary.

- 1 ○ ‘379 Patent: Figs. 11-12, 13A-B, 17A, 21A, 27B, 2:10-13, 2:25-28, 2:59-
2 64,6:50-57, 7:23-32, 7:46-51, 7:67-8:13, 9:55-57, 12:29-35, 15:7-9, 15:14-
3 24, 16:27-29, 17:23-28, 17:34-35, 17:36-38, 18:12-13, 18:33-35; July 14,
4 2016 Office Action; July 27, 2016 Amendment and Response.
- 5 ○ ‘936 Patent: Figs. 11-12, 13A-B, 17A, 21A, 27B, 8:18-23, 8:58-62, 9:33-
6 35, 9:44-46, 11:22-24, 13:61-67, 16:42-44, 16:49-54; August 15, 2017
7 Office Action.
- 8 ○ ‘073 Patent: Figs. 11-12, 13A-B, 17A, 21A, 27B, Abstract, 1:19-21, 2:10-
9 11, 2:63-64, 3:14-20, 3:20-26, 3:27-29, 3:36-40, 3:45-51, 3:58-61, 5:25-
10 26, 7:62-67, 8:35-39, 8:56-61, 9:10-12, 9:21-23, 9:28-31, 9:31- 40, 12:21-
11 23, 15:3-9, 8:4-6, 18:11-16, 21:9-15, 21:50-56, 22:1-3, 22:18-20, 22:21-
12 23, 22:32-33, 23:8-14, 23:35- 36, 24:28-33, 24:56-69, 25:29-37, 26:15-20;
13 February 10, 2017 Preliminary Amendment; August 16, 2017 Office
14 Action; October 5, 2017 Amendment and Response; October 11, 2022
15 Corrected Amendment and Response; November 17, 2022 Supplemental
16 Amendment and Response; November 22, 2017 Second Supplemental
17 Amendment and Response and Examiner’s Interview Summary; February
18 23, 2018 Office Action; March 4, 2018 Amendment; April 6, 2018
19 Amendment with RCE; October 19, 2018 Amendment and Response.
- 20 ○ ‘118 Patent: Figs. 4-5, 11-12, 13A-B, 17A, 18A, 21A, 27B, 31A-31C,
21 2:15-20, 3:1-5, 3:55-60, 5:61-62, 8:58-63, 9:31-35, 10:6-8, 10:17-19,
22 10:26-40, 13:53-55, 13:60-65, 16:49-57, 20:65-67, 21:7-10, 25:6-9, 25:18-
23 22, 25:26-27, 25:43-44, 25:60-67, 26:10-14, 26:23-25, 27:36-46, 28:17-
24 23, 28:28-32, 28:48-50, 28:51-53, 28:62-67, 29:43-49, 29:55-60, 30:4-19,
25 30:25-30, 30:41-46, 30:40-46, 30:53-54, 32:12-18; October 22, 2018
26 Office Action; January 22, 2019 Amendment and Response; April 9, 2019
27 Notice of Allowability; May 16, 2019 Amendment; June 17, 2019 Office
 Action; June 20, 2019 Amendment and Response; September 6, 2019

Office Action; February 10, 2020 Response to Office Action; June 11, 2020 Response to Rule 312 Communication.

- ‘728 Patent: Figs. 4-5, 11-12, 13A-B, 17A, 18A, 21A, 27B, Abstract, 1:21-24, 2:13-14, 2:66-67, 3:16-18, 3:21-27, 3:28-30, 3:36-40, 3:45-51, 3:58-61, 5:25-26, 8:62-67, 8:35-39, 8:56-61, 9:10-12, 9:21-23, 9:28-33, 9:33-40, 12:21-23, 15:3-9, 18:4-6, 18:11-16, 21:8-9, 21:45-51, 22:14-16, 22:20-23, 22:45-50, 23:6-13, 23:19-26, 23:44-45, 24:18-23, 24:33-42; June 25, 2019 Office Action; August 12, 2019 Agenda and Request for an Examiner Interview; December 23, 2019 Response to Office Action; March 20, 2020 Office Action; May 20, 2020 Response to Office Action.

9. **drawing configuration:** This term should be given its plain and ordinary meaning: fully cocked.

- Intrinsic evidence:

- ‘015 Patent: Figures 2-3, 5-6, 1:41-43, 2:15-31, 2:39-43, 2:52-67, 3:62-67, 4:50-54, 5:16-19, 6:18-23, 6:52-56.
- ‘379 Patent: Figs. 2-3, 5-6, 23A-B, 24A-C, 1:52-55, 2:24-39, 2:45-64, 2:67-3:3, 4:57-63, 5:39-41, 5:46-49, 6:13-17, 7:16-22, 7:52-57, 8:25-29, 8:34-38, 10:35-39, 12:53-54, 12:59-66, 13:3-5, 13:15-19.
- ‘936 Patent: Figs. 2-3, 5-6, 23A-B, 24A-C, 1:53-56, 2:28-3:3, 3:18-39, 3:44-49, 4:1-10, 5:57-63, 6:39-41, 6:46-49, 7:13-17, 8:49-55, 9:18-23, 9:58-62, 9:67-10:4, 12:1-5, 14:18-37, 14:47-51.
- ‘073 Patent: Figs. 2-3, 5-6, 23A-B, 24A-C, 1:55-59, 2:25-53, 2:57-60, 2:65-3:9, 3:15-61, 5:47-57, 6:42-44, 6:49-52, 7:16-20, 8:26-32, 8:62-67, 9:26-27, 9:41-44, 9:64-10:13, 11:1-3, 13:4-8, 15:27-28, 15:33-35, 15:44-46, 15:56-60, 18:21-28, 19:13-17, 19:26-29, 19:57-62.
- ‘118 Patent: Figs. 2-3, 5-6, 23A-B, 24A-C, 1:60-63, 2:25-46, 2:55-3:15, 3:29-49, 4:1-22, 6:24-40, 7:30-38, 8:13-16, 9:22-28, 9:58-63, 10:26-27, 10:47-53, 11:3-20, 11:50-54, 12:7-12, 13:60-63, 14:44-48, 17:8-9, 17:14-

21, 17:25-27, 17:40-45, 19:23-25, 21:19-23, 22:7-8, 22:30-26, 22:64-67,
25:9-12, 26:10-14.

○ ‘728 Patent: 3:8-9, 10:11-13, 19:26-29.

10. **cross over:** This term should be given its plain and ordinary meaning: a point or place of crossing from one side to the other.

- Intrinsic evidence:

○ ‘015 Patent: 2:43-44, 6:50-51, 8:39-40, 10:1-2, 10:41-43.

○ ‘379 Patent: 12:31-32, 17:34-35, 18:12-13.

○ ‘936 Patent: 9:16-17, 13:63-64, 18:66-67, 19:42-43.

○ ‘073 Patent: 2:63-64, 15:5-6.

○ ‘118 Patent: 9:56-57, 16:50-51.

○ ‘728 Patent: 2:66-67, 15:5-6.

11. **first and second power cables:** This term should be given its plain and ordinary meaning: two power cables.

- Intrinsic evidence:

○ ‘015 Patent: 1:14-17, 1:28-29, 1:33-38, 1:46-57, 2:43-44, 4:14-28, 4:45-57, 4:63-67, 5:5-9, 5:16-19, 6:40-51, 6:52-56, 8:28-38, 9:39-49, 10:20-41.

○ ‘379 Patent: 1:25-28, 1:39-48, 1:58-67, 2:25-33, 2:39-44, 2:59-3:3, 4:43-51, 5:8-19, 5:41-53, 5:60-6:6, 6:13-17, 7:39-57, 9:32-45, 9:50-52, 12:22-41, 12:46-49, 12:56-13:11.

○ ‘936 Patent: 1:26-30, 1:40-50, 1:59-67, 2:32-40, 2:46-48, 2:59-3:3, 3:22-34, 4:1-10, 5:41-51, 6:8-23, 6:41-43, 6:46-53, 6:59-7:6, 7:13-17, 7:47-52, 9:5-8, 9:12-23, 10:65-11:12, 11:16-19, 14:1-6, 14:11-14, 14:21-43.

○ ‘073 Patent: 1:29-32, 1:42-52, 1:61-67, 2:16, 2:27-35, 2:41-43, 2:54-67, 3:32-36, 5:33-41, 6:2-16, 6:44-56, 6:63-67, 7:5-9, 7:16-20, 7:50-55, 8:49-67, 10:28-32, 11:64-12:10, 12:16-18, 14:58-64, 15:3-14, 15:20-23, 15:30-52, 24:5-22.

- 1 ○ ‘118 Patent: 1:33-36, 1:47-57, 1:63-67, 2:4-9, 2:31-61, 3:35-53, 4:7-22,
2 6:9-14, 6:54-7:7, 7:38-50, 7:57-64, 8:1-3, 8:10-16, 8:46-51, 9:45-63,
3 11:34-40, 13:27-50, 16:36-39, 16:44-62, 17:1-33, 29:26-49, 32:1-18.
4 ○ ‘728 Patent: 1:31-34, 1:43-52, 1:63-2:6, 2:30-46, 2:57-3:3, 3:33-36, 5:33-
5 41, 6:2-17, 6:44-56, 6:62-7:9, 7:16-20, 7:50-55, 8:49-67, 10:28-32, 11:64-
6 12:11, 12:16-18, 14:58-64, 15:3-14, 15:20-23, 15:30-52.

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8 Dated: August 22, 2022

Respectfully submitted,

9 EMERSON THOMSON BENNETT, LLC

10 /s/ John M. Skeriotis

11 John M. Skeriotis, Esq. (*pro hac vice*)

12 1914 Akron-Peninsula Road

13 Akron, OH 44313

14 *Attorney for Defendant Hunter's*
15 *Manufacturing Company, Inc. d/b/a*
16 *TenPoint Crossbow Technologies*

PROOF OF SERVICE

I hereby certify that on the 22nd day of August 2022, I served a true and correct copy of the foregoing **DEFENDANT’S LPR 1-13 LIST OF PROPOSED CLAIM TERMS FOR CONSTRUCTION** via email to:

Nicholas J. Santoro
nsantoro@santoronevada.com

Jason D. Smith
jsmith@santoronevada.com

Kadie M. Jelenchick
kjelenchick@foley.com

Michelle A. Moran
mmoran@foley.com

/s/ John M. Skeriotis
John M. Skeriotis