CLAIMS

1. A piston for a cartridge configured to deploy a projectile, the piston comprising:

a piston body having a first end opposite a second end; and

a piston opening defined through the piston body from the first end to the second end, wherein the piston opening between the first end and the second end comprises a smaller diameter than the piston opening proximate at least one of the first end or the second end.

2. The piston of claim 1, wherein the piston opening proximate the first end comprises a chamfered edge.

3. The piston of claim 1, wherein the piston opening proximate the first end is sized and shaped to receive a filament wire.

4. The piston of claim 1, wherein the piston opening proximate the second end is sized and shaped to receive a screw.

5. The piston of claim 4, wherein the piston opening proximate the first end is configured to receive a filament wire.

6. The piston of claim 1, wherein the piston opening proximate the second end comprises a recess sized and shaped to receive a screw and a washer.

7. The piston of claim 1, wherein a first middle portion of the piston opening proximate the first end comprises a greater diameter than a second middle portion of the piston opening proximate the second end.

8. The piston of claim 1, wherein a middle outer diameter of the piston body between the first end and the second end is greater than an end outer diameter of at least one of the piston body at the first end or the piston body at the second end.

9. A cartridge:

a cartridge body defining a piston stop on an inner surface of the cartridge body;

a piston disposed within the cartridge body, wherein the piston is configured to travel forward during a deployment to contact the piston stop, wherein the piston is electrically coupled to the cartridge body before, during, and after the deployment; and

a projectile disposed within the cartridge body forward the piston, wherein the projectile is electrically coupled to the piston.

10. The cartridge of claim 9, wherein the projectile remains electrically coupled to the piston before, during, and after the deployment.

11. The cartridge of claim 9, wherein the projectile comprises a wire-tether having a first end coupled to the projectile and a second end coupled to the piston.

12. The cartridge of claim 9, wherein before, during, and after the deployment the piston is electrically coupled to the cartridge body at a radially outer surface of the piston.

13. The cartridge of claim 12, wherein an axially forward surface of the radially outer surface of the piston is configured to contact the piston stop during the deployment.

14. The cartridge of claim 13, wherein the axially forward surface of the radially outer surface of the piston is configured to electrically couple the piston to the piston stop.

15. The cartridge of claim 9, wherein the piston comprises a piston opening defined through the piston from a first piston end of the piston to a second piston end of the piston.

16. The cartridge of claim 15, wherein the projectile comprises a filament having a first end coupled to the projectile and a second end inserted through the piston opening at the first piston end of the piston.

17. The cartridge of claim 16, further comprising a screw inserted through the second piston end of the piston, wherein the screw couples the second end of the filament to the piston.

18. The cartridge of claim 17, further comprising a washer coupled between the screw and the piston, wherein the washer is configured to electrically couple the second end of the filament to the piston.

19. The cartridge of claim 18, wherein the washer contacts an inner surface of the piston opening.

20. The cartridge of claim 18, wherein the washer is configured to position the second end of the filament such that the second end of the filament contacts an inner surface of the piston opening.