

(No Model.)

W. B. MORRIS.
SPRING GUN OR CATAPULT.

No. 513,590.

Patented Jan. 30, 1894.

Fig. 1.

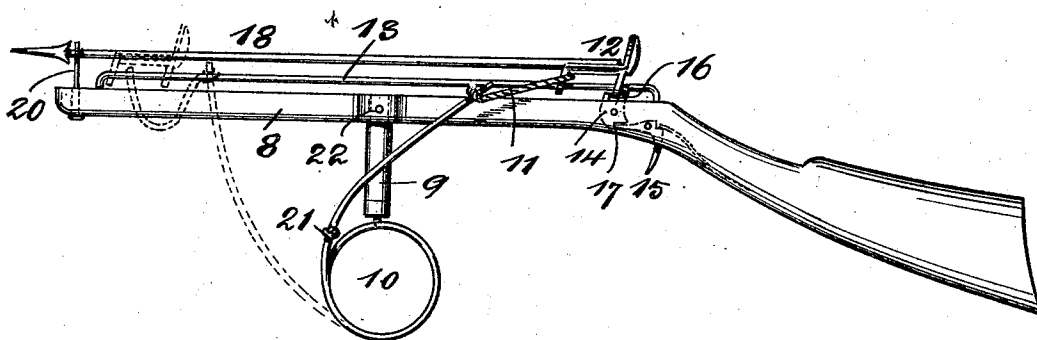


Fig. 2.

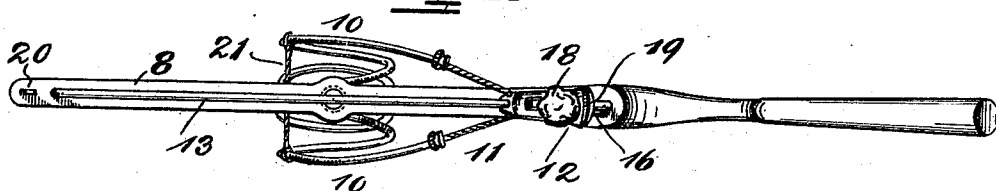


Fig. 3.

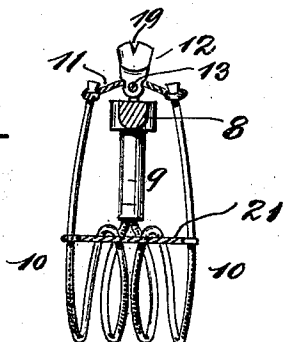


Fig. 4.

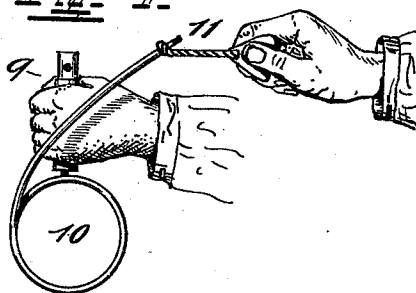
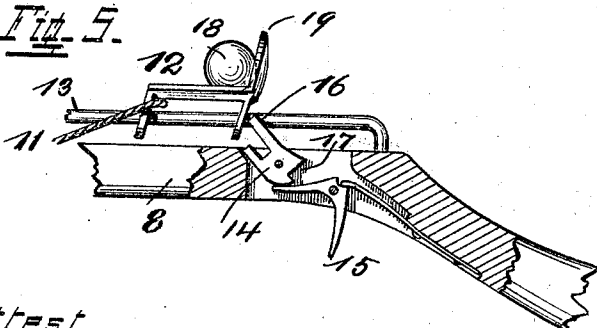


Fig. 5.



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UNITED STATES PATENT OFFICE.

WILLIAM B. MORRIS, OF SEATTLE, WASHINGTON.

SPRING GUN OR CATAPULT.

SPECIFICATION forming part of Letters Patent No. 513,590, dated January 30, 1894.

Application filed July 14, 1893. Serial No. 480,501. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM B. MORRIS, a citizen of the United States, and a resident of Seattle, King county, State of Washington, have invented a certain new and useful Spring Gun or Catapult; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, with the reference-numerals marked thereon, which form a part of this specification.

This invention relates to shooting implements where springs are used in place of gun-powder for the purpose of propelling the projectile, and it consists of the specific features of the constructure which will appear more fully hereinafter. It is principally to be considered as a toy, but may also be used for hunting and killing smaller animals, such as squirrels, birds, &c.

In the following specification and particularly pointed out in the claims, is found a full description of my invention, its operation, parts and construction, the latter being also illustrated in the accompanying drawings, in which—

Figure 1, is a side-elevation of the gun set ready for discharge. Fig. 2, is a top-view of it in the same condition. Fig. 3, is a front-end elevation, partly in section. Fig. 4, shows a part of it detached and used as a catapult. Fig. 5, is an enlarged detail view of the lock. 8, is the stock of the gun from the under side of which projects a handle 9, to which the springs are secured which are used for throwing the projectile. These springs consist of coil-springs 10, each containing one or more coils, one end of each being secured to handle 9, while the other and outer ends on each side extend upwardly above the gun-stock, where they are united to each other by a string 11. This latter engages with a driver 12, upon which the projectile rests and by which it is thrown out when the gun is discharged.

For the purpose of being able to control the direction of the flight of the missile, a guide

13, is provided upon the upper and front-part of the gun-stock on which the driver travels in a straight line, being secured or held thereto by two lugs which project from its under side.

The lock of this gun consists of a catch 14, and a spring-actuated trigger 15, both pivotally secured within the gun-stock. Excepting when the gun is set, the parts of this lock are in a position as shown in Fig. 5. For setting, the driver is pulled back on its guide 13, until its rear-lug comes in contact with a projection 16, forming a part of the catch, which contact causes the catch to rise until it comes in front of this same lug as shown in Fig. 1. At the same time the front-end of the trigger snaps into a cut-out 17, whereby the catch is held in position in front of the rear-lug of the driver and enabled to detain this latter against the opposite acting tendency of spring 10. While in this condition, the missile 18, is placed in position on the driver. This former may consist of an arrow as shown in Fig. 1, or of a stone, or ball as shown in Figs. 2, and 5.

The upright part of the driver is cut out as shown at 19, in Fig. 3, which cut-out forms the rear-sight and is used in connection with the front-sight 20, when balls or stones are thrown. This front-sight is capable of being turned as shown in Fig. 1, to serve as a front-support for arrows, in case such are used, and when the front-sight may be dispensed with.

In setting the gun, when the coils of the spring are being put under tension, they have a tendency to open, which is prevented by a tie-band 21, connecting to the outer branches of each.

This implement may be used without the gun-stock by removing the handle 9, therefrom and by disengaging string 11, from the driver 12, in which case it becomes a catapult and is used as shown in Fig. 4. A pin 22, passing through corresponding perforations serves to hold handle 9, in position on the gun-stock.

Having described my invention, I claim as new—

1. In a spring-gun, the combination of a gunstock, two coil-springs secured thereto, a string connecting the outer ends of these springs, a driver engaging with this string,

adapted to carry the projectile and provided with the two downwardly projecting, perforated lugs a guide rod on which the driver travels being held thereto by its perforated lugs and a lock to set and discharge the gun.

2. In a spring-gun, the combination of a gun-stock, a handle or holder 9, secured to its under side and projecting downwardly therefrom, two coil-springs, one end of each of which is connected to this handle 9, the other and outer ends of each extending upwardly, a string which unites these ends, a driver adapted to carry the projectile and provided with two downwardly projecting lugs engaging with this string, a guide-rod on which the driver travels being held thereon by these two lugs and a lock to set and discharge the gun.

3. In a spring-gun, the combination of a gun-stock, two coil-springs secured thereto, a driver with two downwardly projecting lugs engaging with this string, a guide-rod on which the driver travels, being held thereon by these two lugs, a catch to hold the driver when the gun is set, a projection 16, thereon adapted to engage with one of the lugs of the driver for

raising the catch into operative position and a trigger to hold and release the catch.

4. In a spring-gun, the combination of a gun-stock, two coil-springs secured thereto, a string, connecting the outer ends of these springs, a driver engaging with this string, carrying also the rear-sight 19, in its upright part; the adjustable front sight 20, serving also as a support for arrows, a guide on which the driver travels and a lock to set and discharge the gun.

5. The combined spring-gun and catapult, consisting of a gun-stock 8, the removable handle 9, which carries two coil-springs 10, a pin 22, to hold the handle to the gun-stock, a string which connects the outer ends of the springs, a driver engaging with this string, a guide on which the driver travels and a lock to set and discharge the gun.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM B. MORRIS.

Witnesses:

C. SPENGEL,
WM. KRAMER.