O. H. CURTIS.
Catapult.

No. 225,510. Patented Mar. 16, 1880.

Fig. 1.

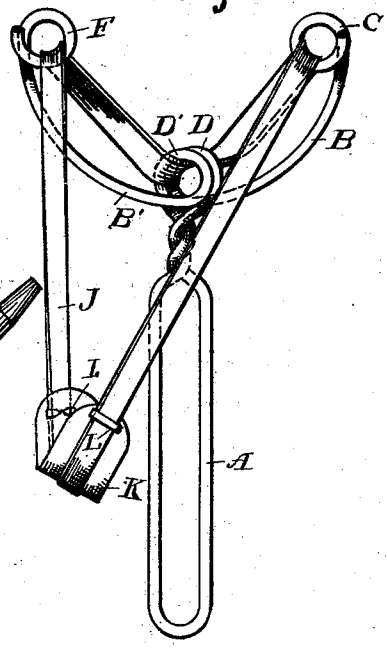
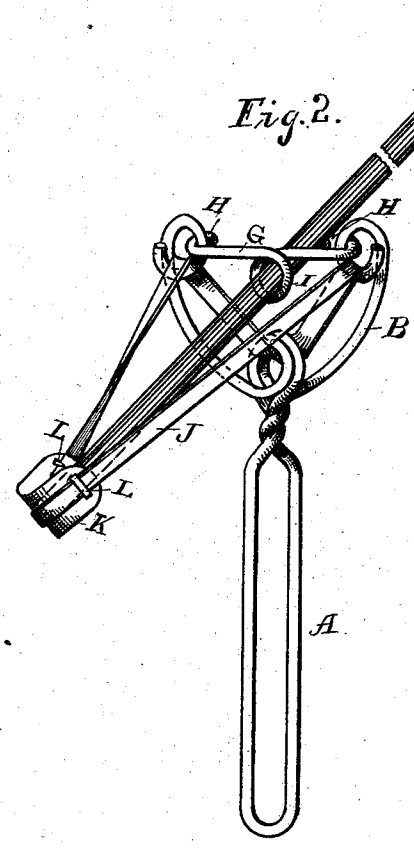


Fig. 2.



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ORVILLE H. CURTIS, OF MILWAUKEE, WISCONSIN.

CATAPULT.

SPECIFICATION forming part of Letters Patent No. 225,510, dated March 16, 1880.

Application filed July 28, 1879.

To all whom it may concern:

Be it known that I, ORVILLE H. CURTIS, of the city of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Toys for Projecting Arrows and Stones, Balls, &c.; and I do hereby 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, and to letters of reference marked thereon, which form a part of this specification.

The object of my invention is to provide a device for projecting both arrows and stones, balls, &c., so constructed that it occupies but small space, and may, if desired, be conveniently carried in a person's pocket.

Figure 1 of the accompanying drawings represents a perspective view of my invention in readiness for throwing stones. Fig. 2 represents a perspective view of the same provided with a support or arrow-rest for supporting and guiding an arrow.

In the accompanying drawings similar reference-letters indicate like parts.

The handle A and arms B B′ are constructed in one piece from a single piece of wire, which is conveniently shaped around a former, beginning, first, with the ring or loop C; then arm B is formed, next loop D and the long loop which forms the handle A, when the wire is twisted, as shown, at the upper end of the handle, and another loop, D′, is formed, when it is finished by forming the arm B′ and ring or loop F.

G in Fig. 2 is the arrow-rest, which is constructed of a single piece of wire, having hooks H H and central ring or loop, I, for holding and guiding the arrow, as shown in Fig. 2. J is an elastic strap, which is formed in one endless piece, the ordinary rubber bands used for holding bundles of paper serving well for the purpose. It is first attached at the center, above the handle, by inserting it edgewise between the loops D and D′, when, by turning it around between the spiral curves of the loops, it readily enters, and is retained in the manner shown. After the band is thus secured at its center, it is readily inserted in the loops of the respective arms B and B′, as shown.

K is a pocket or sack, formed from a small piece of flexible fabric, for throwing stones, balls, &c., and against which the end of the arrow also rests when the device is used for shooting arrows. The sack K is attached to the strap I by two or more small staples, L L, which respectively surround the strap and enter the ends of the sack or pocket, and are bent over and clinched upon the inside of the pocket, as shown.

M represents the arrow in readiness to be thrown.

When desirous to throw stones, the arrow and arrow-rest G are removed and the stone is placed in the pocket K, when the strap and stone are together drawn backward and suddenly released, when, by the elastic force of the contracting strap, the stone is swiftly thrown forward, passing between the arms B B′.

Having thus described my invention, I do not confine or limit myself to the material used for forming the device, as a wooden handle may be substituted for the wire shown, and other equivalent devices may be used for the wire loops shown. However, I prefer the peculiar construction described, as it is more easily and cheaply made.

What I claim as new, and desire to secure by Letters Patent, is—

1. In devices for throwing stones and arrows, the combination of the elastic strap J with the pocket K and spirally-curved loops C, D, and F, so constructed as to admit an endless band, substantially as and for the purpose specified.

2. In devices for throwing arrows and stones, the combination of the arrow-rest G, provided with central loop, I, and hooks H H, with the looped ends of the arms B B′, substantially as and for the purpose specified.

3. In devices for projecting both stones and arrows, the combination of the handle A, provided with ring D, arms B B′, provided with loops or rings C and F, arrow-rest G, provided with central ring, I, and hooks H H, elastic strap J, having pocket K, all substantially as and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand.

ORVILLE H. CURTIS.

Witnesses:
JAS. B. ERWIN,
A. G. MILLER.