Nov. 11, 1930. E. S. SMITH 1,781,530

COMBINATION SLING SHOT AND BOW

Filed April 13, 1929 2 Sheets-Sheet 1

Fig. 2.

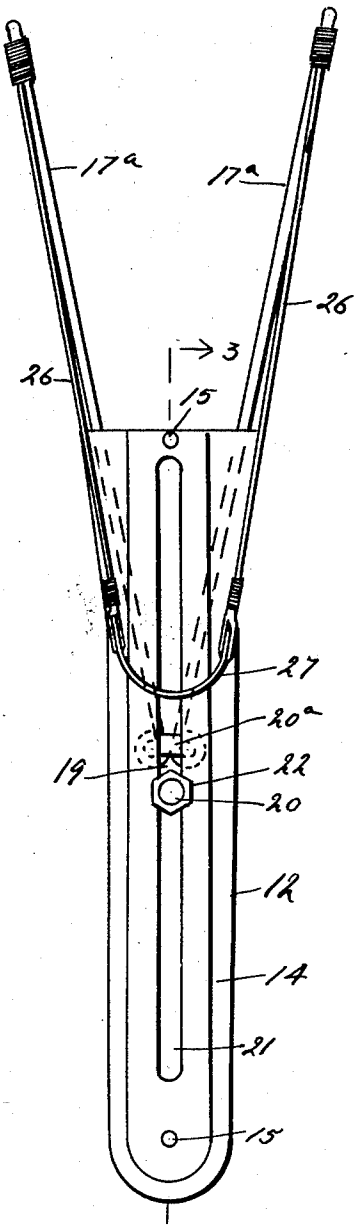


Fig. 1.

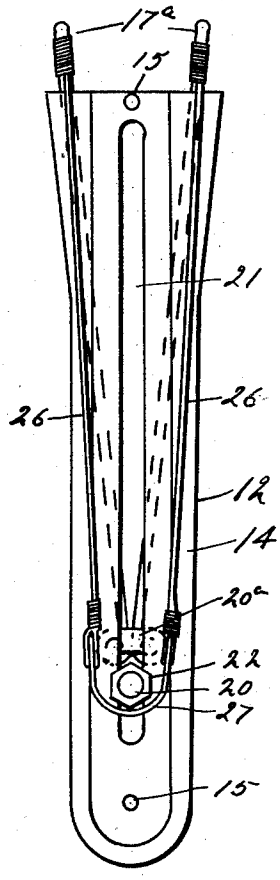
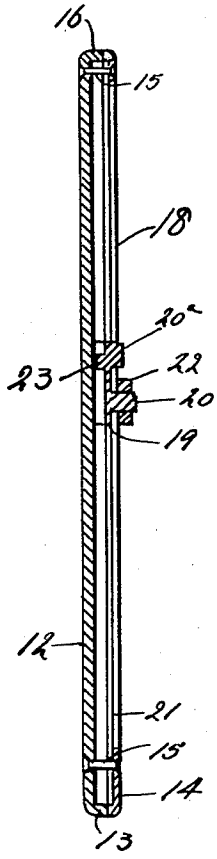


Fig. 3.

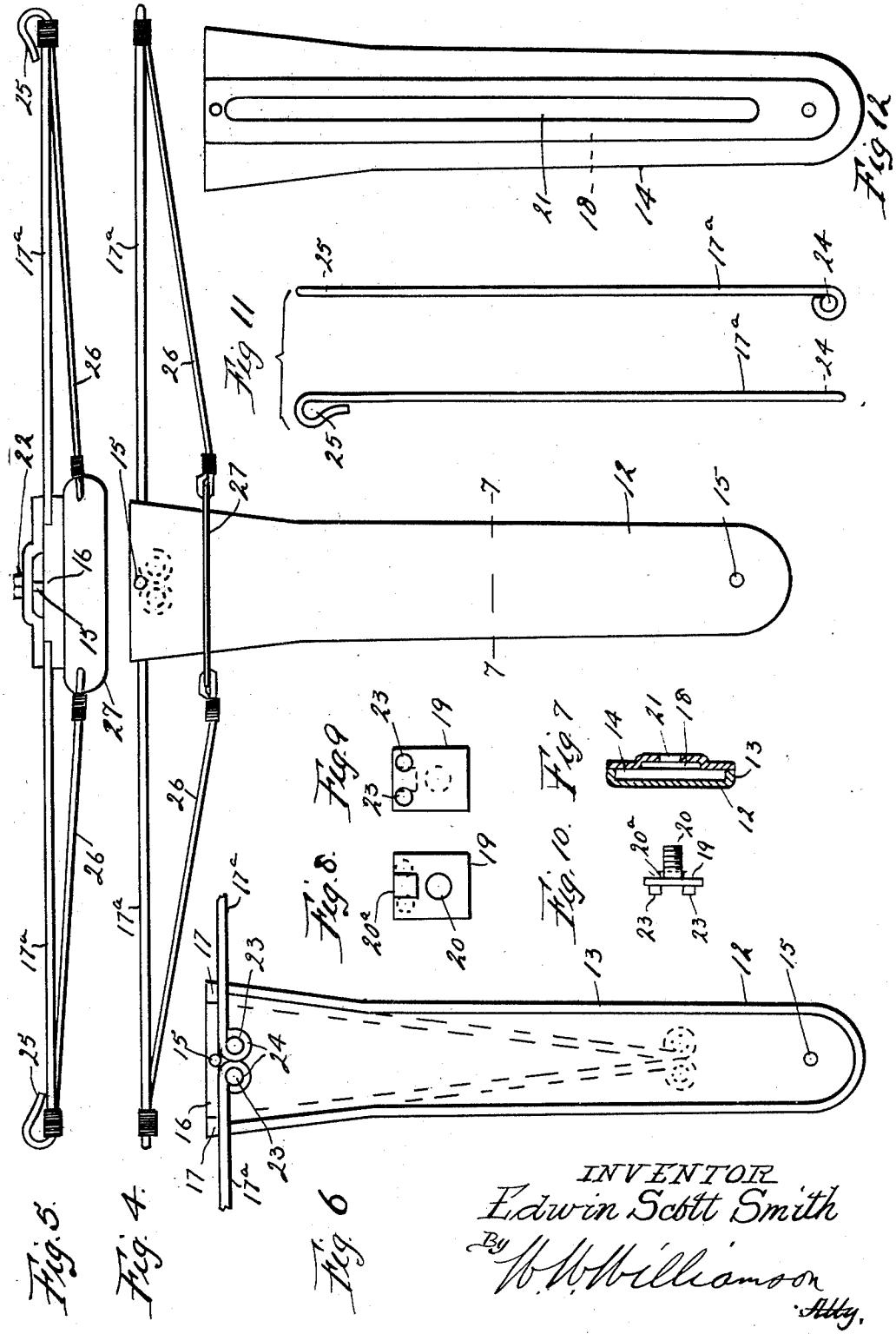


INVENTOR
Edwin Scott Smith
By W. W. Williamson
Atty.

Nov. 11, 1930. E. S. SMITH 1,781,530

COMBINATION SLING SHOT AND BOW

Filed April 13, 1929 2 Sheets-Sheet 2



Patented Nov. 11, 1930

1,781,530

UNITED STATES PATENT OFFICE

EDWIN SCOTT SMITH, OF HARRISBURG, PENNSYLVANIA

COMBINATION SLING SHOT AND BOW

Application filed April 13, 1929. Serial No. 354,800.

My invention relates to new and useful improvements in a combined sling shot and bow and has for its object to so construct a device of this character which may be readily converted from a sling shot for shooting pebbles and other small articles into a bow for shooting arrows and when not in use, the arms thereof may be drawn within the hollow handle whereby said arms will be housed, making the device more convenient for carrying by a person and also for transportation.

With these and other objects in view, this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, I will describe its construction in detail, referring by numerals to the accompanying drawings forming a part of this application, in which:—

Fig. 1, is a face view of my improved device with the arms housed within the casing.

Fig. 2, is a view similar to Fig. 1 showing the arms distended and adjusted to a position, producing a sling shot.

Fig. 3, is a section at the line 3—3 of Fig. 2.

Fig. 4, is a view similar to Fig. 1 taken from the reverse side and illustrating the device when converted into a bow.

Fig. 5, is a top edge view of Fig. 4.

Fig. 6, is a face view of Fig. 4, the face plate being removed to clearly show the coaction between the arms and the flange for aligning said arms when the latter are in the position in which the device is used as a bow, the slide being omitted.

Fig. 7, is a section at the line 7—7 of Fig. 4.

Fig. 8, is a detail view of the face of the sliding block.

Fig. 9, is a similar view of the reverse side of the sliding block.

Fig. 10, is an edge view of the sliding block.

Fig. 11, represents two detail views of one of the arms.

Fig. 12, is a detail view of the face plate looking at its inner surface.

In carrying out my invention as herein embodied, 12 represents the handle or holder of the device which is preferably made in two pieces, the body having the flanges 13 formed therewith which produce a recess within said body and a face plate 14 for securement upon the flanges of the body by means of the rivets 15 or in any other suitable manner. This construction produces a simple, inexpensive hollow handle for the processes hereinafter described. 16 represents a ledge which partially closes the upper end of the body, leaving only the spaces 17 for permitting the projection of the arms therethrough in order that said arms may be slid back and forth into and out of the body as occasion requires.

The face plate 14 has a groove 18 formed in its inner surface by outsetting that portion of the metal of said face plate forming the walls of said groove.

19 represents a slide block adapted to fit within the groove 18 and travel longitudinally thereof and this slide block has a threaded stud or screw 20 projecting therefrom adapted to pass through a slot 21 formed in the outset portion of the face plate so that by threading any suitable form of nut 22 upon said stud, the slide block may be adjusted and held in any position within its groove, and this slide block is provided with the pivot studs 23 which project into the space within the body passing through the eyes 24 formed upon the inner ends of the arms 17^a. The slide block also has a lug 20^a adapted to slide in the slot 21 as a further guide for this slide block.

It will be seen that by the proper movement and adjustment of the slide block, the arms may be either drawn within the hollow body or moved outward until assuming the position shown in Fig. 2 or moved still further outward until assuming the position shown in Fig. 4.

The outer ends of the arms are so bent as to provide the eyes 25 in which the outer ends of the elastic strips 26 are attached to said arms and to the inner ends of the elastic strips is secured the sling 27.

When the arms are adjusted to the posi-

tion shown in Fig. 2, a sling shot is provided which has all the advantages of the ordinary sling shot and when the arms are adjusted to the position shown in Fig. 4, a bow is provided which I have found by practice to be more efficient than the same size bow of ordinary construction in that the action of the elastic strips upon the arrow is more direct and faster.

When the slide block is adjusted to carry the arms to the position shown in Figs. 4 and 6, the inner portions of the arms will bear against the inner surface of the ledge 16 while the opposite sides of said arms will bear against the upper edges of the flange 13, thus securing the arms firmly in a horizontal position to properly sustain the strain to which they are subjected in the use of the device as a bow.

When the slide block is moved to its downward limit, the arms will be drawn into the space within the handle, thus housing said arms and reducing the device into compact form so as to facilitate its shipment or the carrying of the same in the pocket of the user.

Of course I do not wish to be limited to the exact details of construction as herein shown, as these may be varied within the limits of the appended claims without departing from the spirit of my invention.

Having thus fully described my invention, what I claim as new and useful is:—

1. A combined sling-shot and bow comprising a hollow handle having a longitudinal slot in the face thereof, a block slidably housed within the handle, a screw projecting through said slot, a nut run upon said screw for holding the block in any adjustment, two arms, the inner ends of which are pivoted to said block, and an elastic sling attached to the outer ends of said arms.

2. In a device of the character described, a body having a flange around the edges thereof to form a space within the body, a face plate secured upon said flange so as to enclose said space, an outset groove formed in the face plate and having a slot in the outer wall thereof, a block fitted to slide in said groove, a screw carried by the block and projecting through said slot, two arms, the inner ends of which are pivoted to said block and a ledge partially closing the upper edge of the body and serving as an abutment for the arms when the latter are adjusted to a horizontal position.

3. A combined sling-shot and bow comprising a hollow body, a face plate secured upon said body, said face plate having an off-set groove therein with a longitudinal slot formed in the outer wall of said groove, a block fitted to slide within said groove, a screw carried by the block and projecting through the slot, a nut threaded upon the screw to hold the block in any adjustment, two studs carried by the block and projecting into the space within the body, two arms, the inner ends of the latter being pivoted upon said studs, openings in the upper end of the body providing for the projection of said arms outward or the withdrawal of said arms inward, two elastic strips attached to the outer ends of the arms and a sling to which the inner ends of the elastic strips are attached.

4. A combined sling shot and bow comprising a hollow handle, means slidably mounted within said handle, holding means carried by the sliding means for holding the latter in different adjusted positions longitudinally of the handle, and arms pivoted to the sliding means and projecting through openings at one end of the handle and bearing against the walls surrounding the openings to cause the outer ends of the arms to move to and from each other due to movement of the sliding means.

In testimony whereof, I have hereunto affixed my signature.

EDWIN SCOTT SMITH.