Nov. 15, 1932. F. S. SAXTON 1,887,520

TOY GUN

Filed Oct. 9, 1931

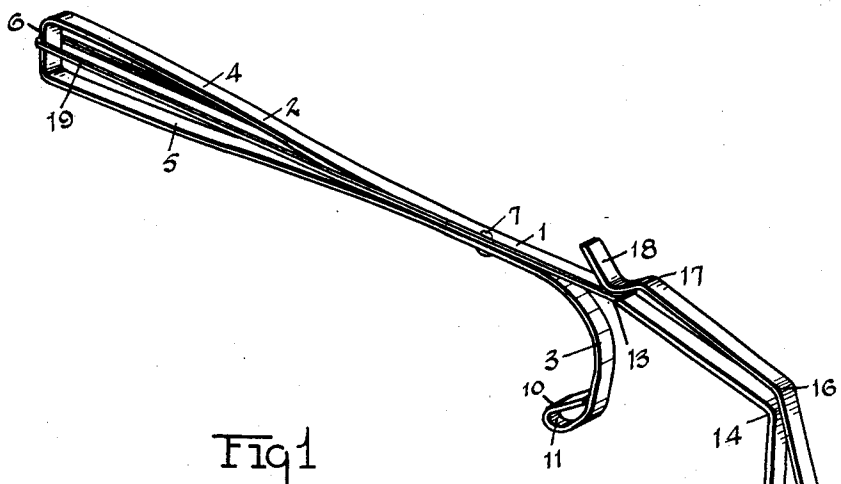


Fig 1

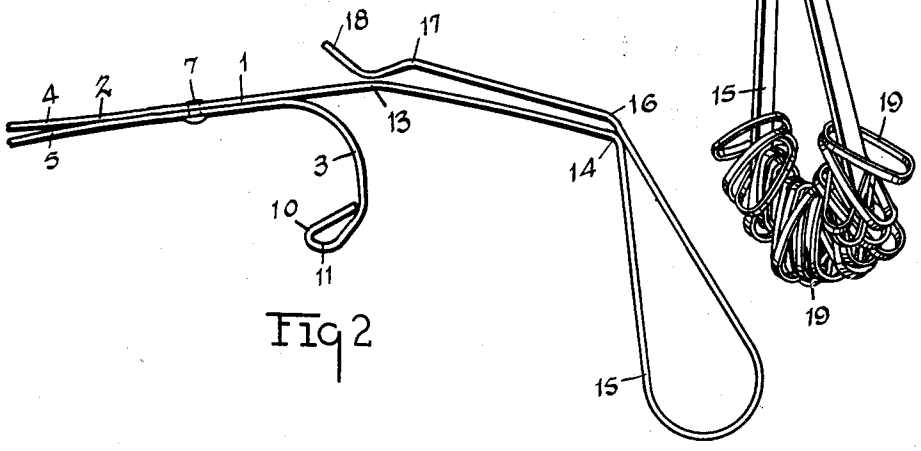


Fig 2

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UNITED STATES PATENT OFFICE

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TOY GUN

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My invention has for its object to provide a toy gun, simple in construction, and efficient in operation, for shooting rubber bands. The invention particularly relates to a magazine gun that is so formed that a plurality of rubber bands may be conveniently supported and sequentially positioned for trigger control and, when stretched, may be released, and by their elasticity, projected in the direction that they are stretched.

The invention may be contained in toy guns that vary in their details and, to illustrate a practical application of the invention, I have selected a toy gun containing the invention as an example of various embodiments of the invention and shall describe the selected structure hereinafter. The toy gun referred to is shown in the accompanying drawing.

Fig. 1 of the drawing is a perspective view of the gun. Fig. 2 illustrates the position of the gun preparatory to loading or charging the magazine part of the gun that is used for supporting or enclosing the rubber bands.

The gun is formed of a strip 1 of metal of suitable rigidity and elasticity, bent to correspond to a pistol in general outline. The gun has a part 2 that corresponds to the barrel and a part 3 that corresponds to the trigger. The barrel is formed of a part of the strip 1 of metal that is bent to form upper and lower sides 4 and 5 and the end 6 of the barrel part. The end 6 preferably extends substantially at right angles to the sides 4 and 5. The sides 4 and 5 are brought together at a point remote from the end 6 and secured together by a suitable rivet 7 and at a point just in advance of the trigger part 3.

The trigger part 3 is formed of a curved end portion of the strip 1. It preferably has a returned end part 10 that forms a small loop 11 to increase the rigidity of the end of the trigger and also enable a better hold and grip on the trigger part. The strip 1 has a slight angular bend 13 at a point in proximity to the trigger, and a second angular bend 14 at a point more remote and to the rear of the trigger. The strip 1, thus, extends downwardly and is curved upwardly to form the handle part 15 which also forms the magazine, or the holder, for the rubber bands that are to be shot from the gun.

The strip 1 extends from the handle part to a point slightly above the angular portion 14 and is bent to form the angle 16. It then extends to a point near the angle 13 where the end portion of the strip is bent towards the angle 13, as at 17, and so as to make contact with the body of the strip, as at angle 13, by the elasticity of the metal. The end of the strip then curves away, as at 18, to form a lip for guiding rubber bands into the space between the portions of the strip located to the rear of the trigger. The lip 18 is spring pressed against the body of the strip 1 and cooperates to produce releasement of a rubber band that has been stretched from the lip 18 to the end 6 of the barrel.

The bands 19 are placed in position by drawing the trigger 3 towards the handle 15 to produce a slight bend of the strip 1 between the angle 14 and the trigger 3. The major portion of the bend takes place in the vicinity of the angle 14 by reason of the fact that the metal has been bent at this point in the formation of the toy gun and quite readily bends at this point. This draws the angle 13 away from the lip 18 and, although the lip 18 is spring pressed by the elasticity of the metal against the angle 13, the bend 14 engages a part of the strip to hold the lip from following the bend of the metal that is caused by drawing the trigger towards the handle. This locates the part substantially as shown, in Fig. 2, and enables loading of the magazine of the gun with the bands 19, the bands being moved between the lip 18 and the angle 13 into the space between the end portion and the body of the strip. When the trigger is released, the bands may then be slipped into the handle portion 15 of the toy gun, substantially as shown in Fig. 1. To load the gun, the bands may be easily slipped sequentially between the angle 14 and the upper end of the handle portion until one end of the band is engaged between the lip 18 and the angle 13 of the strip, the elasticity of the metal operating to hold the end that is engaged by the lip. The band is then stretched until the

remaining end of the band is placed over the end 6 of the barrel portion 2 of the gun. When the gun is to be fired, the trigger 3 is drawn towards the handle which slightly depresses the barrel, or draws the handle towards the barrel, particularly at the angle 14, and only an amount sufficient to release the band to an extent, such that the tension of the band will draw the end engaged by the lip 18, between the lip and the angle 13 of the strip. The band will then be shot in the manner well known in the art, the outer end being momentarily held by the end 6 of the barrel.

I claim:

1. In a toy gun for shooting elastic bands, the toy gun formed of a bent elastic strip and having a barrel part, a trigger part fixedly connected to the barrel part, and a handle part, the handle part having a lip elastically pressed against a portion of the top of the barrel part, the barrel part elastically removable from said lip when the trigger part is drawn towards the handle part, the barrel part having an end portion for engaging one end of the band and the lip adapted to elastically engage and frictionally hold the other end of the band against the said portion of the top of the barrel part until the barrel part is drawn from the said lip by pressure of the trigger.

2. In a toy gun for shooting elastic bands, the toy gun formed of a bent elastic strip and having a barrel part, a trigger part fixedly connected to the barrel part, and a handle part, the handle part having a lip elastically presed against a portion of the top of the barrel part, the barrel part elastically removable from said lip when the trigger part is drawn towards the handle part, the barrel part having an end portion for engaging one end of the band and the lip adapted to elastically engage and frictionally hold the other end of the band against the said portion of the top of the barrel part until the barrel part is drawn from the said lip by pressure of the trigger, the said handle formed of a loop portion of said strip and terminating in the said lip, said bands adapted to be passed between the said lip and the said top portion of the barrel into the said loop whereby a plurality of the bands may be located in the said loop forming the handle part and the bands may be placed consecutively in position for shooting by moving one end of each of the bands to the lip and moving the other end of the said band to and locating it on the said end portion of the barrel.

In witness whereof I have hereunto signed my name to this specification.

FRANK S. SAXTON.