May 1, 1951 E. L. SIDERS 2,550,873

TOY REPEATING RUBBER BAND PISTOL

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Fig. 1.

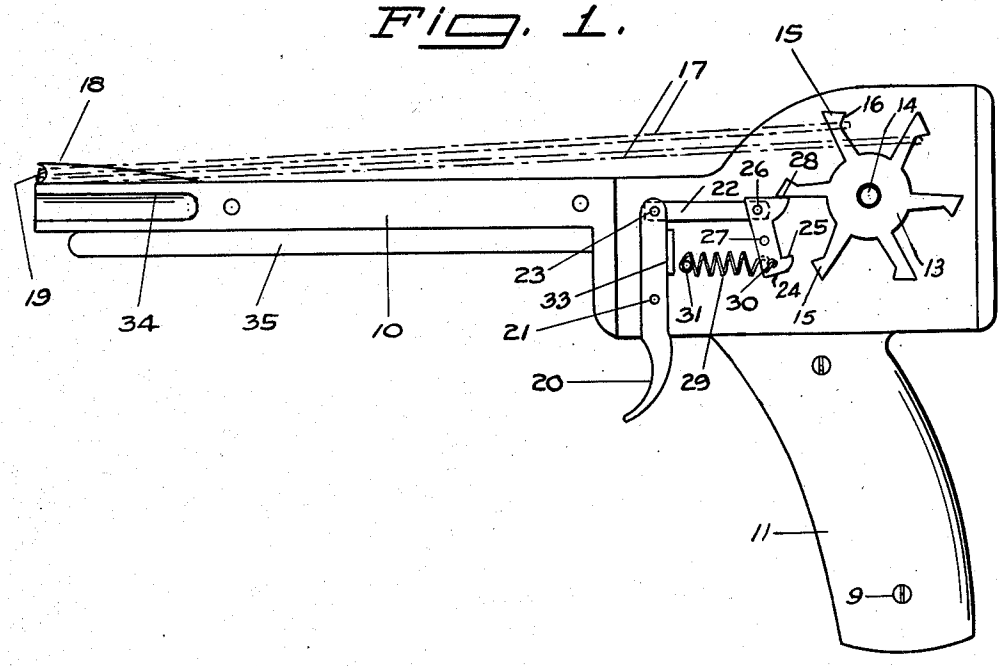
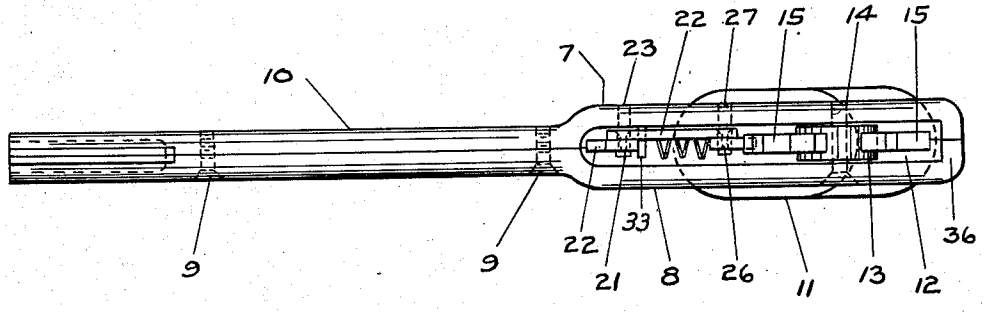


Fig. 2.



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Fig. 3.

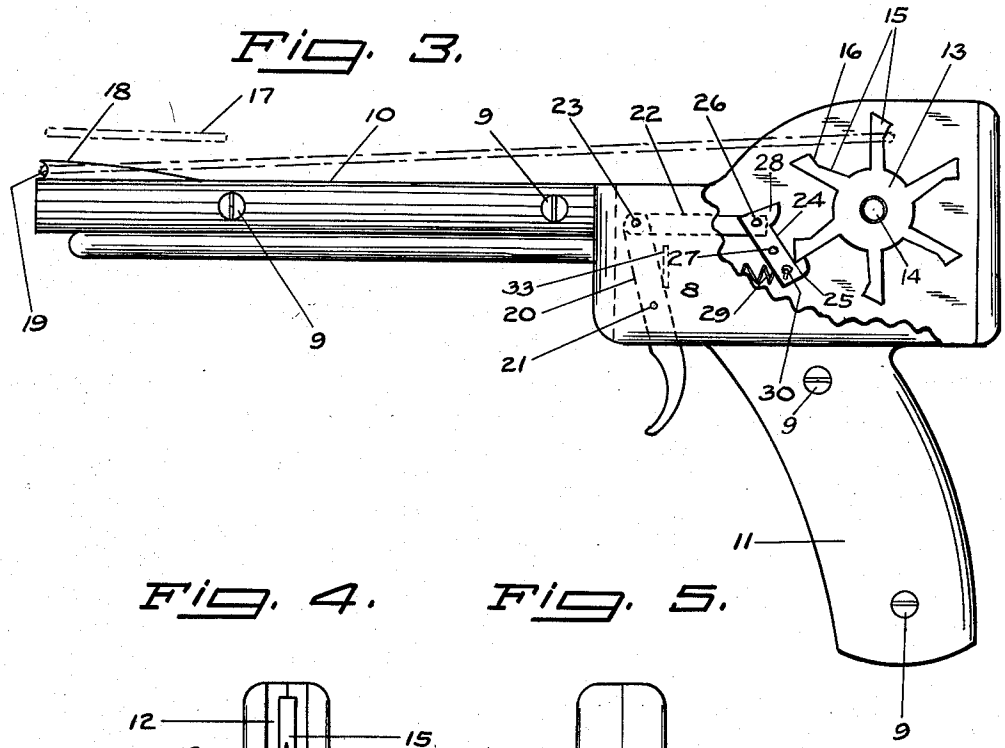


Fig. 4.

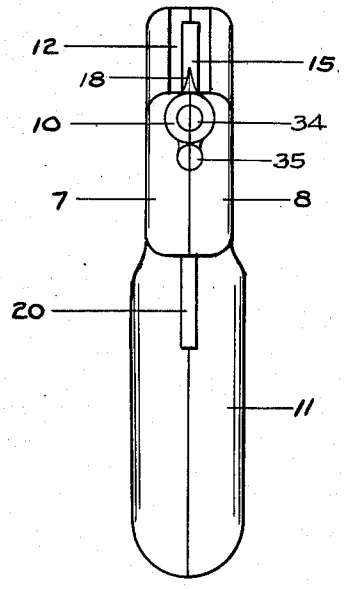
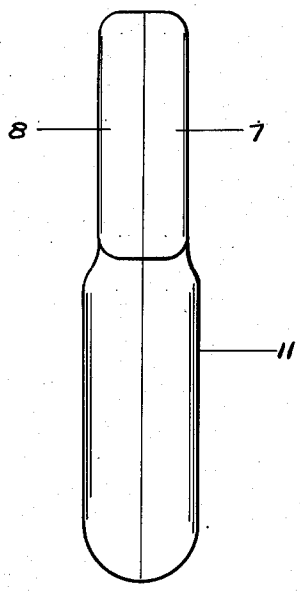


Fig. 5.



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UNITED STATES PATENT OFFICE

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TOY REPEATING RUBBER BAND PISTOL

Ellis L. Siders, Santa Cruz, Calif.

Application January 26, 1948, Serial No. 4,441

1 Claim. (Cl. 124—19)

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This invention relates to improvements in toy guns and has special reference to a specially constructed gun for shooting elastic bands and the like.

An object of the present invention is to provide a toy gun with a freely revolvable wheel and a unique mechanism for retaining a plurality of elastic bands and to further provide an improved spring controlled trigger means for releasing the said elastic bands.

Another object of the present invention is the provision of an improved combined lever means associated with the trigger for controlling the said mechanism.

A further object of the present invention is to form the body of the gun in elongated halves, which halves are made of metal or plastic removably secured one to the other to facilitate the assembly of the trigger mechanism within the gun.

A still further object of the present invention is to provide a toy gun of the character described that is durable, simple in construction, economical to manufacture, and highly efficient and serviceable in use.

Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawings forming a part of the specification, wherein for the purpose of illustration, like numerals designate like parts throughout the same,

Fig. 1 is a side elevational view of the improved toy gun, with one of the halves of the body removed to illustrate the trigger mechanism within the gun, showing the mechanism in its closed normal position,

Fig. 2 is a top plan view of the improved gun,

Fig. 3 is a side elevational view of the toy gun with a portion of the body broken away, showing the trigger mechanism in its shooting position,

Fig. 4 is a front elevational view of the improved toy gun, and

Fig. 5 is a rear elevational view of the gun.

Referring in detail to the drawings and the numerals thereof, the numerals 7 and 8 designate as a whole the two halves forming the body of the gun, which halves are secured one to the other by suitable screws 9. The numeral 10 designates the barrel of the gun, the numeral 11 the handle thereof and the numeral 12 the recessed stock portion forming a casing for retaining the trigger mechanism. The numeral 13 designates a suitable wheel revolvably mounted on a shaft 14, which shaft is fixed in the stock of the gun. The said shaft can be an integral

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portion of the wheel and revolvably supported in the gun if desired. The wheel is formed with a plurality of elongated arms 15, slightly beveled as at 16 for retaining a plurality of elastic bands 17, the said bands being looped over a sight 18 that is recessed as at 19.

The trigger 20 is pivotally supported on the stock of the gun as at 21 and carries a lever 22 that is pivoted thereto as at 23. A second lever 24, notched as at 25 is pivotally secured to the first mentioned lever 22 as at 26, the said second lever being pivoted to the stock of the gun as at 27, and is provided with an overhanging lip 28, which lip is capable of arresting the wheel 13 by retaining a wheel arm 15 thereon as shown to advantage in Fig. 1. A coil spring 29 is provided and one end thereof is secured to the second mentioned lever as at 30 and the opposite end fastened to the gun casing as at 31, whereby the said lever is resiliently retained in its normal position. A projection 33 is fixed on the inside of the gun casing and abuts the rear upper portion of the trigger to provide a stop for limiting the inner movement of the trigger. The front extremity of the gun is formed hollow as at 34 and an elongated cylindrical member 35 is provided on the bottom portion of the gun barrel to assimilate the device to a regular pistol. The rear portion of the recessed casing 12 is preferably closed as at 36 forming a protective medium to prevent the elastic bands from flying backwards. It will be obvious that the said casing 12 is made of a suitable width to provide sufficient space for accommodating any number of elastic bands it is desired to shoot. For the purpose of clarity only two elastic bands 37 are shown in the present illustrations, but the gun can be completely loaded by having a band mounted over each arm 15 and stretched to the recess 19 in the sight 18 when desired.

From the foregoing description taken in conjunction with the accompanying drawings it will be obvious that when an elastic band 17 is looped over the upper arm 15 nearest the sight 18 as shown to advantage in Fig. 1 and the trigger 20 is pulled, as shown to advantage in Fig. 3, the front horizontal arm 15 will be released from the lever lip 28 and the said top arm will be moved forward a sufficient distance for releasing the band, the elasticity in the band causing the same to be shot outwardly above the other bands and across the sight 18 as illustrated in Fig. 3. The notch 25 in the lever 26 limits the movement of the wheel 13 and the arms thereon when shooting. After the trigger is released by the user,

the coil spring 29 will pull the lever 24 back to its normal position, whereby the top lip 28 thereon receives and holds the wheel arm nearest thereto as illustrated to advantage in Fig. 1 and in which position the gun is ready to shoot another band.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same and that various changes relative to the shape, size, material and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claim.

Having thus described my invention, I claim:

A toy gun in the form of a pistol for shooting elastic bands, comprising a handle, a casing positioned above the same, said casing having an opening in the top portion thereof and a second opening in the bottom portion and in front of the said handle, a barrel extending forward from the casing, a sight on the top front end portion of the barrel, a shaft horizontally positioned through the casing and fixed in the side walls thereof, a wheel within the casing revolvably supported on the said shaft, a plurality of radially extending arms on the wheel, each of the said arms having an outwardly extending flared portion forming a catch for receiving one of the looped ends of the elastic bands, a recess in the outer extremity of the sight on the gun barrel for receiving the opposite looped ends of the elastic bands, a mechanism for controlling the wheel to release the bands, the said mechanism including a trigger pivotally secured to a wall of the casing and extending downwardly through the said opening in front of the handle, a lever pivotally secured to the upper portion of the trigger and horizontally extending therefrom, a second

lever pivotally secured to the outer end portion of the first lever and adapted to extend beneath any one of the arms on the wheel for retaining the arms in their normal positions, means pivotally securing the second lever to a wall of the casing, whereby the lever is capable of being adjusted for releasing the arms from their normal positions when the trigger is pulled to release the bands, a notch in the lower portion of the second lever adapted to engage any one of the said arms to limit the movement of the arms, a stop fixed to the wall of the casing and positioned against the rear portion of the trigger for supporting the same in its normal position and a coil spring having one end portion thereof secured to the said second lever and the opposite end portion secured to a wall of the casing for retaining the second lever and trigger in their normal positions.

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