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AUTOMATIC EJECTOR FOR TOY GUN HOLSTER

Original Filed March 2, 1953

2 Sheets-Sheet 1

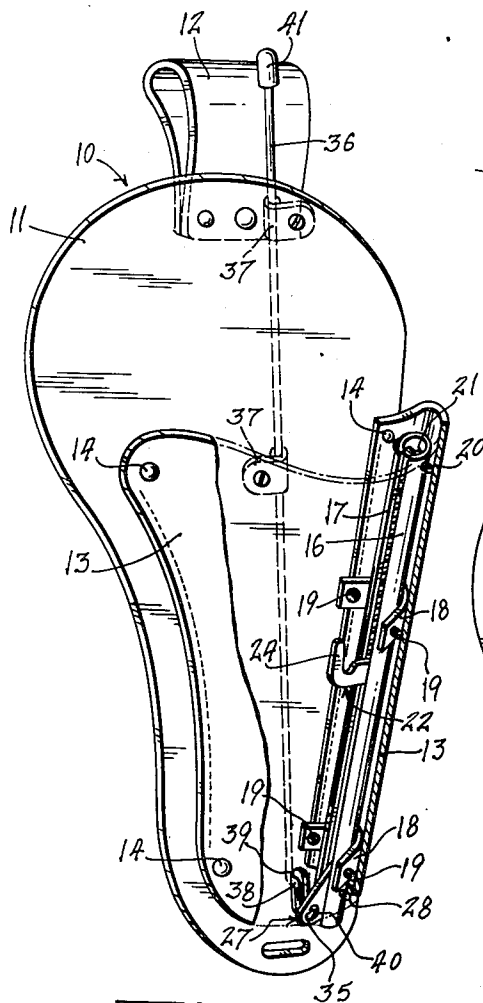


FIG. 1

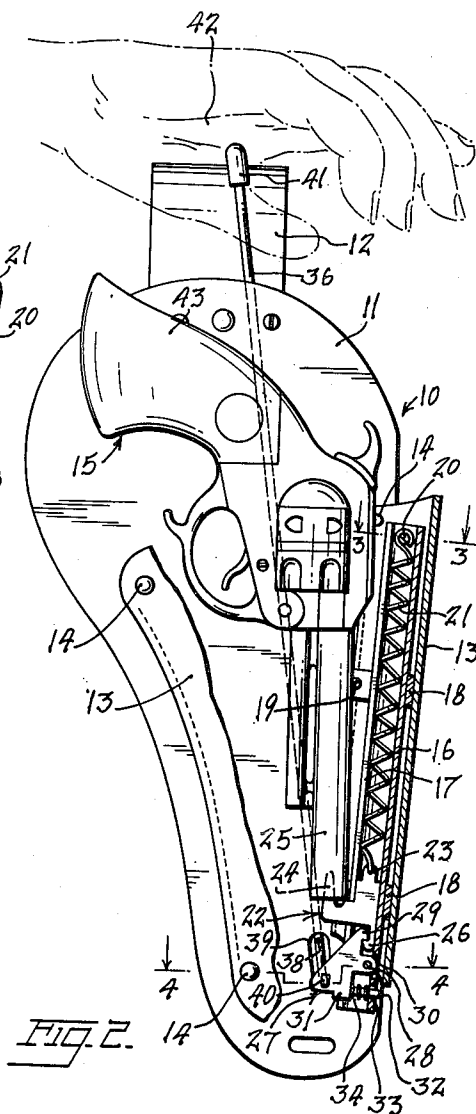


FIG. 2

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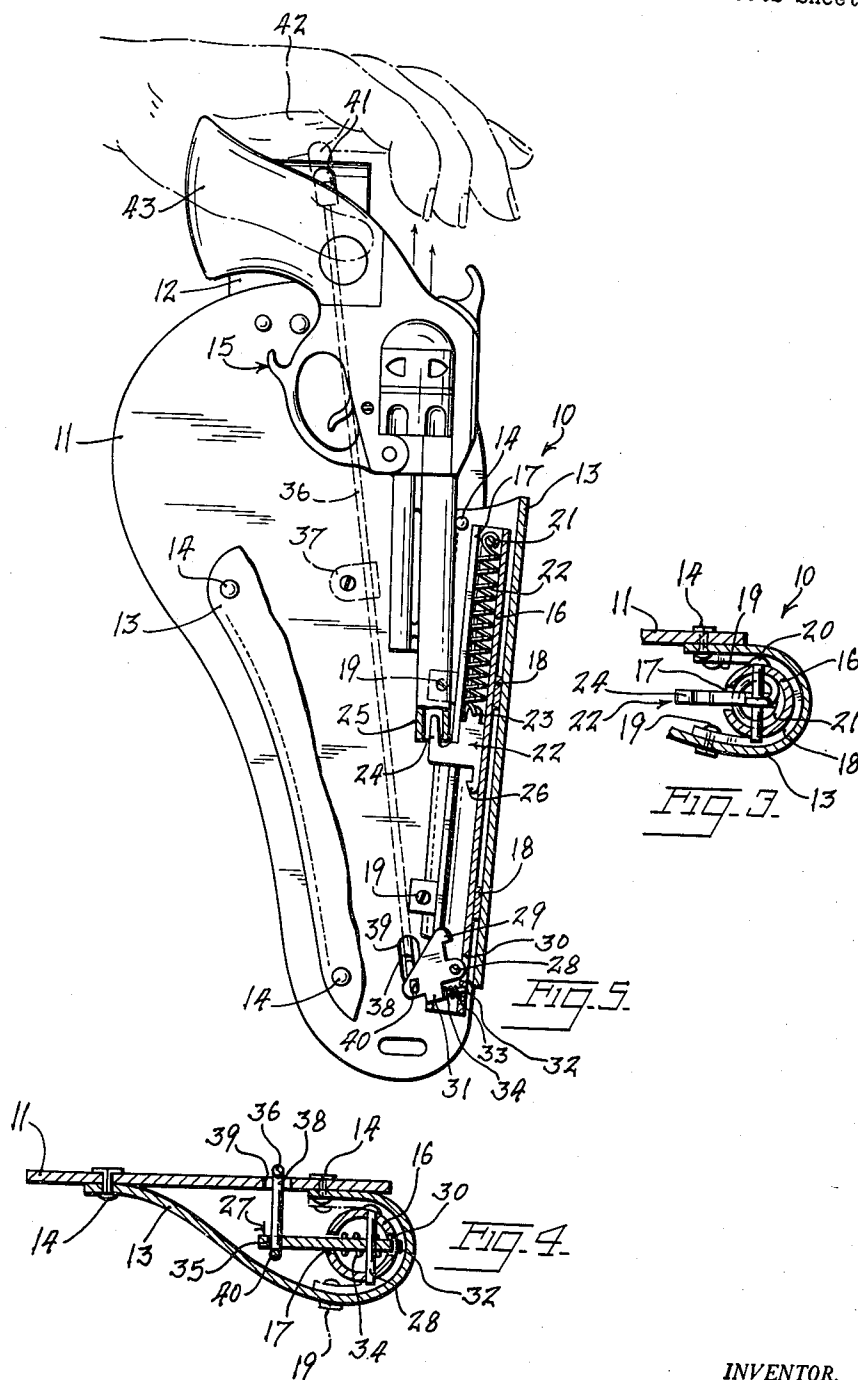
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2 Sheets-Sheet 2



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AUTOMATIC EJECTOR FOR TOY GUN HOLSTER

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Continuation of application Serial No. 339,674, March 2, 1953. This application April 30, 1954, Serial No. 426,653

1 Claim. (Cl. 224—2)

This invention relates to gun holsters and more particularly to a gun holster which will automatically eject the gun at the desired moment.

This application is a continuation of my application Serial No. 339,674 filed March 2, 1953, and now abandoned.

It is an object of the present invention to provide a toy gun holster including spring-actuated means acting on the toy gun to move the pistol upward against the palm of the hand at the desired moment.

It is another object of the present invention to provide a gun holster of the above type including upwardly-extending release means adapted to be triggered by the palm of the hand before the latter reaches the pistol handle.

It is another object of the present invention to provide an automatic holder for a toy gun holster wherein as a plunger is pressed downwardly catch hooks will release a lever which will shove the gun upwardly by a spring into the palm of the hand.

Other objects of the present invention are to provide an automatic gun ejector bearing the above objects in mind which is of simple construction, is inexpensive to manufacture, has a minimum number of parts, is easy to use and efficient in operation.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claim in which the various novel features of the invention are more particularly set forth.

On the accompanying drawings forming a material part of this disclosure:

Fig. 1 is a perspective view of an automatic gun ejector holster embodying the features of the present invention shown partly broken away to show the interior construction thereof.

Fig. 2 is a front elevational view thereof shown partly in section with the gun in operative position therein.

Fig. 3 is a transverse sectional view taken along line 3—3 of Fig. 2.

Fig. 4 is a transverse sectional view taken along line 4—4 of Fig. 2.

Fig. 5 is a view similar to Fig. 2 but showing the gun being ejected.

Referring more in detail to the drawings, in which similar reference numerals identify corresponding parts throughout the several views, there is shown an automatic gun ejector, referred to collectively as 10, and including the usual holster backing 11 adapted to be mounted on a belt by means of the usual strap 12, substantially as illustrated.

The usual holster front 13 is secured to backing 11 by means of fastening elements 14, providing thereby a pocket to receive the gun 15 therewithin in the usual manner of holster constructions.

In the practice of my invention, a length of hollow metal tubing 16 having a slot 17 extending from end to end is secured within the holster at one side thereof by

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means of U-shaped brackets 18 welded thereto, the brackets 18 at their ends being secured to the front 13 and backing 11 by means of screws 19.

A transverse pin 20 pierces the upper end of tubing 16 and serves to secure the upper end of a tension spring 21 extending downwardly therefrom within the tubing 16, as shown in Figs. 2 and 5.

A member 22 slides longitudinally within the tubing 16 and is integrally formed at its upper end with an eye 23 which secures the bottom of spring 21, as shown in Figs. 2 and 5. The member 22 on its longitudinal side adjacent the slot 17 is integrally formed with an L-shaped lever 24, the latter sliding longitudinally in the slot 17 and being adapted to be received in the lower end of barrel 25 of gun 15 when the latter is inserted into the holster. The lowermost end of member 22 is integrally formed with a catch 26 for a purpose to be referred to directly.

A triangular member 27 is pivotally mounted at the lower end of tubing 16 within slot 17 by means of a pin 28, the upper corner of this member being integrally formed with a hook 29 adapted to engage the catch 26, as shown in Fig. 2, in a manner to be hereinafter described. The bottom of tubing 16 is provided with an opening 30 adapted to accommodate the portion of member 27 surrounding pin 28. The bottom of member 27 is integrally formed with a downwardly extending portion 31, the latter at one side being integrally formed with a transverse pin 32 extending outwardly of tubing 16 through an opening 33 therein, as shown in Figs. 2 and 5. A push-back spring 34 sleeves the pin 32 intermediate tubing 16 and portion 31 and normally tends to rotate the member 27 in a clockwise direction and to retain thereby the catch hook 29 in engagement with catch 26, as will be obvious.

As a means of rotating the member 27 counterclockwise against the action of spring 34 and to release thereby the catch hook 29 from catch 26, permitting the member 22 to move upwardly under the action of spring 21 and to eject gun 15, the corner of member 27 external of tubing 16 is provided with an opening 35. An elongated wire 36 is slidably mounted on the rear face of backing 11 by means of brackets 37, the bottom of this wire being forwardly and downwardly bent as at 38 and passing through an opening 39 in backing 11, as shown in Figs. 1, 2, 4 and 5, the wire continuing downwardly and terminating in a forwardly bent portion 40 passing through opening 35. The upper end of this wire is extended above the top of backing 11 and terminates near the top of strap 12, as shown in Fig. 2, in a button 41.

In operation, the gun 15 is inserted downwardly in the holster intermediate the front 13 and backing 11, as shown in Figs. 2 and 4, with the barrel 25 receiving therewithin the lever 24. The gun 15 is pressed downwardly into the holster against the action of spring 21 until the catch 26 of member 22 is engaged by catch hook 29 of member 27, whereupon downward pressure on the gun may be released. The spring 34 will retain the catch hook 29 in engagement with catch 26, and the gun will then remain in the holster.

When the palm 42 of the hand approaches the handle 43 of the gun 15, the former will contact the button 41 before reaching the handle 43, as shown in Fig. 2. This moves portion 40 of wire 36 downwardly, rotating member 27 in a counterclockwise direction and rotating thereby catch hook 29 out of engagement with catch 26, permitting member 22 to move very rapidly upwardly under the action of spring 21. This carries lever 24 rapidly upward and thereby barrel 25, ejecting the gun 15 upwardly and the handle 43 thereof into the palm 42 where it is grasped and the "draw" is com-

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pleted. Thus as the palm 42 approaches the handle 43, the latter will appear to jump upwardly in a novel and mystifying manner, also reducing the amount of time necessary to complete the "draw."

While I have described my automatic gun ejector in connection with a toy gun holster, it will be readily appreciated that my invention is equally applicable to regulation size holsters without departing from the scope thereof.

It will be noted that each time the gun 15 is inserted into the holster, the spring 21 will be extended and the catch hook 29 brought into engagement with the catch 26, thereby "loading" the device for automatic ejection without fail.

I claim:

An automatic gun ejector attachment for a gun holster, comprising a tube secured to the holster extending from the bottom to near the top thereof, a coil spring in said tube having its upper end secured to the upper end of said tube, said tube having a longitudinal slot therein, a member extending through said slot slidable up and down the slot having a portion thereof in said tube connected to the lower end of said spring and having a

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second portion outside of said tube shaped to engage the muzzle end of a gun, a spring-operated catch comprising a plate in the lower part of said slot in said tube, a pin extending across the tube on which said plate is rotatably mounted, said plate having at its top a hook to engage the gun-muzzle-engaging member, a second spring acting to hold said hook in releasable engagement with said member, a longitudinally movable hook-release element pivotally secured at its bottom end to said plate and extending upwardly to a point beyond the top of a gun when in said holster so that when the hand is moved down towards the handle of the gun it strikes the top of said hook-release element some distance before contacting the handle of the gun and turns said plate against the action of the second spring to release said member and permit the first spring to throw the gun upwardly out of the holster into the palm of the hand.

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