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The addition of weight in a live seawater system usually occurs when it is necessary to produce a trigger response from the rest of the system. The simplest addition of a link between a trigger unit and rest block or link member adds enough weight to accommodate many go-off if the function is dropped. If the link is removed to move function is dropped, the benefits of the member will cause it to trigger pull, the benefits of the member will cause it to move forward - when the function is dropped means down and consequently causes the function to fire. In such an arrangement the function will not fire when dropped but down. When such a system is used, means are required in the live seawater mechanism to prevent so-called deep fires.

It is therefore the main object of this invention to provide an inertia weight in a fire control mechanism to prevent accidental firing of a firearm.

## A further object of the present invention is to provide

Still another object of this formation is to prevent any firing of a firearm by means of a trigger solenoid. It is contemplated that these objectives may best be achieved by providing an inertia weight to function to prevent fire-off when the firearm is dropped. The inertia weight is called a trigger solenoid and is mounted in the neck immediately the ends of a trigger link which joins the trigger and rear block. The solenoid is spring biased to maintain contact with the link and is firmly preloaded in the neck.

It should be understood that the embodiments of the invention to be disclosed are equally applicable to all systems having the trigger produced remote from the rear of the gun control mechanism, whereby a connecting channel is required between the trigger and immediate of the fire control mechanism.

Other objects and statements of this invention will become apparent as the following description proceeds, and the features of novelty which characterize this invention will be pointed out with particularity in the claims appended to and forming part of this specification.

In the drawing:  
FIGURE 1 is a fragmentary sectional side elevation of a ultram incorporated tile invention;

FIGURE 2 is a fragmentary section of the looking down on the trigger plate and trigger balance forming a part of this invention: and

FIGURE 3 is a perspective view of the trigger balance and a section of the trigger link forming a part of this invention.

The drawings illustrate a belt section having supporting a receiver 1 mounted on a track 2 and having a barrel 3 secured in one end. The headform 4 of the

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## The In-control Machine

a member or witness that I had a seat block. A safety 10 is mounted for physical movement on pin 11. Trigger 7 is physically mounted on trigger pin 12 and has that 9 already attached thereto by pin 13. The remainder of the fire-control mechanism is of the conventional type for ball seating elements. While this structure is not shown, it is to be understood that a firing pin is contained in both 4 and arranged to be cradled upon rotation and reciprocation of the bolt. The pin is held in its cocked position by the seat which in turn is held by seat block 7. Movement of block 7 releases the seat and firing pin allowing the seat to fire.

[illegible]

It consistently has been in PWD, I, that the plant above has trigger 7 positioned just a distance from the first compartment 6. In order for the gun to fire, triggering element 7 must activate the fire control to create discharge of a cartridge loaded in the chamber which is within the rotating L. In the particular gun shown, rear trigger 7 must be moved in response to a request on trigger 7. This movement is accomplished by connecting trigger 7 to rear block 9 by trigger link 8. The added weight of link 8, however, causes difficulties concerning jar-off conditions when the gun is fired.

Star block 8 is designed to move forward or toward trigger 7 when trigger 7 is squeezed. This is toward the muzzle end of the pistol. For ease of description the trigger end will be called the butt end. When dropped on the butt end the trigger will act like a deadman. When thrown forward as a result of being dropped they are considered to have-<sup>5</sup> in a result of the drop, star block 9 must move forward before the pistol can fire and dropping on the butt end will not cause this type of movement. When dropped on the muzzle, however, the barrel of the 8 causes it to move forward path-<sup>6</sup> ing star block 9 with it and causing the pistol to fire or drop-<sup>7</sup>

In order to prevent any of the six drawings, the drawings is provided with an internal switch or trigger balance 14. Balance 14 is formed with two oppositely extending arms 15 mounted on a thin upright section 20. Arms 15 are connected to groove 51 in notch 5 and are positioned immediately the ends of link 4. Link 4 is formed with a beveled opening 22 and 23 for screw 14 and block 15. As well as opening 22 through which screw 23 passes. A trigger balance spring 25 is mounted on arms 15 and balance section 20 of balance 14 toward link 4 except when this piece is dropped on the butt end. When the gun is dropped on the muzzle end the lowering of balance 14 forces action 20 against link 4 preventing forward movement by link 4. Normal firing is not impeded by balance 14 because it is freely pivoted in block 5 link spring 25 is very light. A pull or sequence on trigger 7 causes a balance 14 to pivot on arms 15 allowing forward movement of link 4 and the consequent firing of the pistol.