

Sept. 13, 1932.

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1,877,710

GAS GUN

Filed Oct. 23, 1931

Fig. 1.

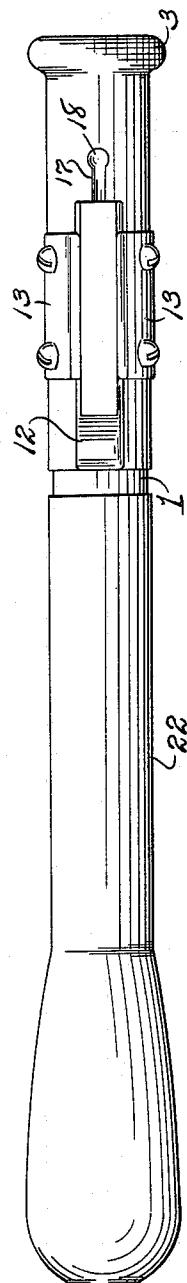


Fig. 2.

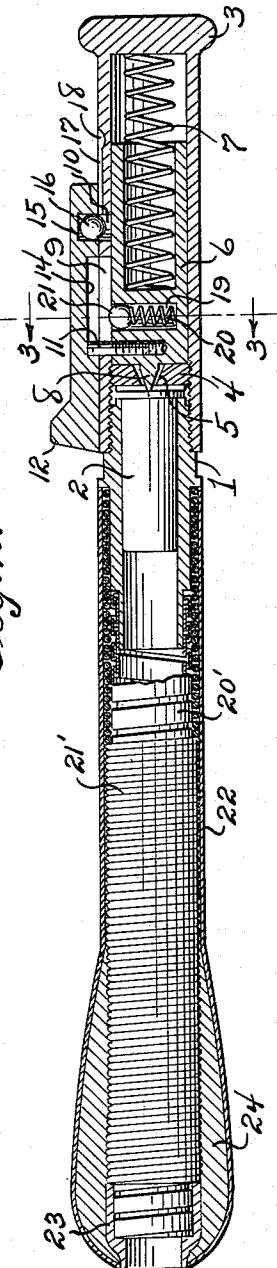
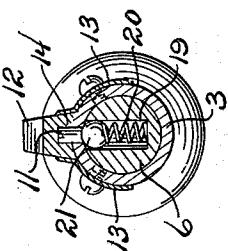


Fig. 3.



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GAS GUN

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This invention relates to a gas gun, and it consists in the novel features hereinafter described and claimed.

An object of the invention is to provide a device of the character stated which may be used as a flexible billy or blackjack and a gas gun combined. With this object in view the device includes a barrel member adapted to receive a cartridge and a handle grip adapted to be applied to the barrel and having a breech plug disposed transversely thereof and provided with a pin opening. A plunger is slideable in the grip and may be moved to a retracted position therein by the use of a thumb slide mounted upon the grip. A spring is provided for forcing the plunger toward the breech plug so that the firing pin carried by the plunger may have contact with the shell of the cartridge. Flexible tubing is connected with the forward end of the barrel and the cartridge when fired discharges the gas through said tubing. The tubing is surrounded by a coil spring and the outer end of the said spring is weighted and padded. The parts and features are so arranged and assembled that when the device is used as a blackjack or billy in striking a blow, the loaded end will rebound sufficiently to prevent the possibility of fracturing receiver's bones and the cushion at the loaded end reduces the liability of striking a dead blow. When used as a tear-gas gun, the firing mechanism can be operated with one hand by drawing the thumb slide toward the rear end of the grip and then permitting the spring to move the plunger in a forward direction in the grip.

In the accompanying drawing:
40 Figure 1 is a plan view of the device.
Figure 2 is a longitudinal sectional view thereof.

Figure 3 is a transverse sectional view thereof cut on the line 3—3 of Figure 2.
45 As illustrated in the accompanying drawing, the combined gas gun and blackjack includes a barrel member 1 adapted to receive a cartridge 2. A handle grip 3 is screwed into engagement with the barrel and a breech plug 4 is disposed transversely across the

interior of the grip. The plug 4 is provided with a pin opening 5. A plunger 6 is slideable in the grip 3 and a spring 7 is disposed between the wall of the grip and the plunger and serves to move the plunger toward the breech plug. The plunger is provided at its forward end with a pin 8 adapted to pass through the opening 5 and have contact with the center of the shell of the cartridge 2. A grip 3 is provided at its side with a slot 9 and an opening 10. A pin 11 is carried by the plunger and passes through the slot 9. A thumb piece 12 is slideable in guides 13 mounted upon the grip 3 and the said thumb piece is provided with a slot 14 which registers with the slot 9 and receives the outer end of the pin 11. The thumb piece 12 is provided with a recess 15 which retains a ball 16, the said ball being adapted to travel in a groove 17 provided at the outer surface of the grip 3 and adapted to enter an indentation 18 provided at the end of said groove. The plunger 6 is provided with a bore 19 which holds a spring 20 and upon said spring a ball 21 rests so that the upper portion of the ball may travel under the slot 9 and may enter the opening 10 when the thumb piece is moved to a retracted position upon the grip. When the upper portion of the ball 21 enters the opening 10, the plunger is held at a retracted position within the grip and against the tension of the spring 7. When the slide piece 12 is moved forwardly the ball 16 is moved out of the indentation 18 until it comes into contact with the releasing ball 21 forcing the ball 21 down against the spring 20 then the tension of the spring 7 comes into play whereby the plunger is swiftly moved in a forward direction in the grip so that the pin 8 passes through the opening 5 of the breech plug and comes in contact with the shell of the cartridge 2 and explodes the cartridge. The gases from the cartridge pass through the barrel 1 and discharge through a flexible hose hereinafter described.

The flexible hose consists of a metallic strip 20 which is spirally wound and the convolutions of the winding having interlocking edges. The flexible tubing is connected with the outer end of the barrel 1. A coil spring

21 surrounds the tubing 20 and is also connected with the barrel 1. A casing 22 is disposed over the coil spring 21 and is connected at its outer end with a nipple 23 which is attached to the outer end of the tubing 20. A weight 24 surrounds the outer portion of the spring 21 and is enclosed within the case 22. The said weight may be lead or other suitable material. The flexibility of the tubing, the coil spring, and the casing is sufficient to provide resiliency to prevent excessive mutilation when the device is used as a billy or blackjack.

15 Having described the invention, what is claimed is:

1. A device of the character described comprising a handle grip having a breech plug therein, a barrel attached to the grip, a spring-urged plunger slidable in the grip, a thumb piece slideable upon the grip, means connecting the plunger with the thumb piece for simultaneous movement, means carried by the thumb piece and the plunger for engaging the grip to hold the parts at retracted position, flexible tubing connected with the barrel, a coil spring connected with the barrel and surrounding the tubing, a casing surrounding the coil spring and a weight surrounding the outer end portion of the spring and housed within the casing.

2. A device of the character described comprising a handle grip, a barrel attached to the grip, flexible tubing connected with the barrel and being open at its outer end, and a coil spring connected with the barrel and surrounding the tubing.

3. A device of the character described comprising a handle grip, a barrel attached thereto, a thumb piece slideable upon the grip and having a socket carrying a ball, the grip having a groove adapted to receive the ball with a depression at the end of said groove, the grip having an opening adapted to receive the ball, a plunger slidable in the grip and a spring-supported ball mounted in the plunger and adapted to engage in the opening of the grip.

4. A device of the character described comprising a handle grip having a slot, a barrel attached thereto, a breech plug carried by the grip, a plunger slidable in the grip and having a resetting pin passing through the slot thereof, a spring means for forcing the plunger toward the breech plug, a thumb slide mounted upon the grip and having a slot registering with the slot in the grip and engaging the resetting pin of the plunger.

In testimony whereof I affix my signature.

JOSEPH WILLIAMS, JR.