

(No Model.)

I. H. SIMPSON.
PNEUMATIC FIRING DEVICE FOR FIREARMS.

No. 542,540.

Patented July 9, 1895.

Fig. 1.

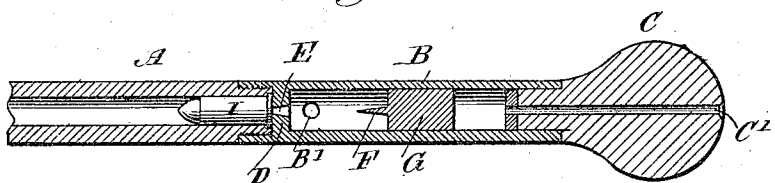


Fig. 2.

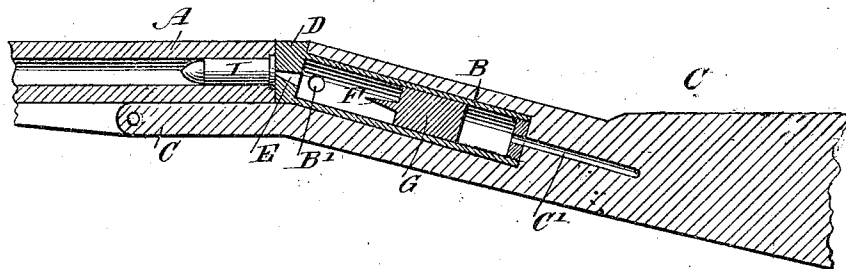
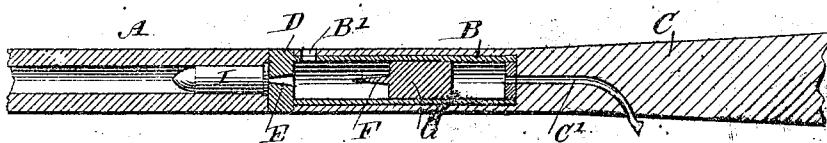


Fig. 3.



WITNESSES:

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PNEUMATIC FIRING DEVICE FOR FIREARMS.

SPECIFICATION forming part of Letters Patent No. 542,540, dated July 9, 1895.

Application filed December 5, 1894. Serial No. 530,847. (No model.)

To all whom it may concern:

Be it known that I, ISAIAH H. SIMPSON, of Brunswick, in the county of Cumberland and State of Maine, have invented a new and Improved Pneumatic Firing Device for Firearms, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved pneumatic firing device for firearms, which is extremely simple and durable in construction and easily manipulated.

The invention consists of an air-propelled plunger carrying a firing-pin.

The invention also consists in certain parts and details and combinations of the same, as will be hereinafter fully described, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the views.

Figure 1 is a longitudinal central section of the improvement as applied on a cane-gun. Fig. 2 is a longitudinal vertical central section of the improvement as applied to an ordinary gun, and Fig. 3 is a horizontal section of the same.

The barrel A of the firearm is connected at its breech end with a cylinder B held on the stock C, either made in the shape of a handle, as illustrated in Fig. 1, or in the ordinary form, as shown in Fig. 2. In the forward end of the cylinder B is arranged a partition D, formed with an opening E for the passage of the firing-pin F to engage and fire the cartridge contained in the barrel A.

The firing-pin F is held on a plunger or piston G fitted to slide in the cylinder B, the said plunger being propelled rearward by withdrawing the air from the rear end of the cylinder and the said plunger is propelled forward for firing the cartridge I by forcing air into the rear end of the cylinder at the time the plunger G is in an innermost position.

The rear end of the cylinder B is connected with a channel or pipe C' extending to the

outside of the stock, so that the operator can apply his mouth to the outer end of the said channel or pipe to withdraw air from the rear end of the cylinder B to move the plunger G into an innermost position, as previously explained, and when it is desired to fire the gun the operator blows into the channel or pipe C' to propel the piston G forward and to explode the cartridge, as above mentioned. In the forward end of the cylinder B is formed an air-vent B', through which air in front of the piston G can escape at the time the latter is propelled forward in the manner described.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A pneumatic firing device for firearms, provided with an air propelled plunger carrying the firing pin, substantially as shown and described.

2. A pneumatic firing device for firearms, comprising a cylinder, and a plunger fitted to slide in the said cylinder and carrying the firing pin, substantially as shown and described.

3. A pneumatic firing device for firearms, comprising a cylinder connected at its rear end with a channel or pipe for withdrawing air from the cylinder or forcing air therein, and a plunger fitted to slide in the said cylinder and carrying a firing pin, substantially as shown, and described.

4. A pneumatic firing device for firearms, comprising a cylinder connected at its rear end with a channel or pipe for withdrawing air from the cylinder or forcing air therein, and a plunger fitted to slide in the said cylinder and carrying a firing pin, the said firing pin being adapted to pass through an aperture in a partition held in the front end of the cylinder, to engage the firing pin with the cartridge, substantially as shown and described.

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Witnesses:

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