Aug. 27, 1929. E. J. McCORMICK 1,725,814

EXTRACTING IMPLEMENT

Filed Nov. 7, 1928

Fig. 1.

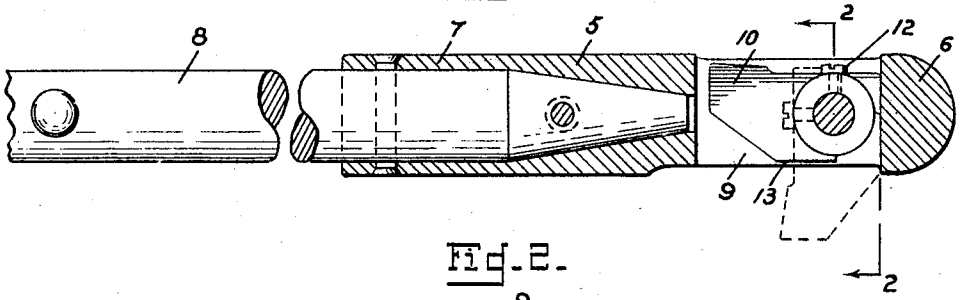


Fig. 2.

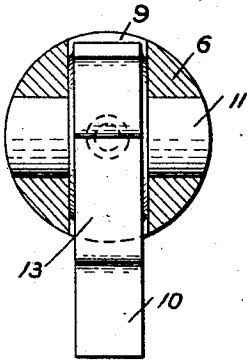
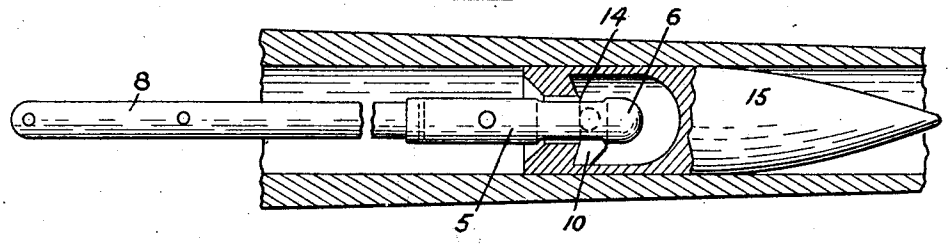


Fig. 3.



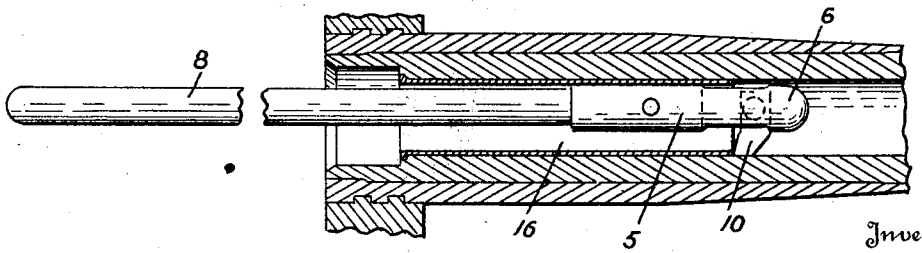


Fig. 4

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UNITED STATES PATENT OFFICE.

EDWARD J. McCORMICK, OF SPENCER, NORTH CAROLINA.

EXTRACTING IMPLEMENT.

Application filed November 7, 1928. Serial No. 317,814.

(GRANTED UNDER THE ACT OF MARCH 3, 1883, AS AMENDED APRIL 30, 1928; 370 O. G. 757.)

The invention described herein may be manufactured and used by or for the Government for governmental purposes, without the payment to me of any royalty thereon.

The subject of this invention is an extracting implement.

When dummy rounds of ammunition and ruptured cartridge cases become lodged in the chamber of a cannon, their removal is a matter of some difficulty, requiring the efforts of a number of men. The operation of removing a ruptured case from a position in front of the muzzle of the gun involves lowering of the gun and exposure of the operators, and is, therefore, undesirable. The operation of withdrawing a dummy round is usually conducted through the breech of the gun and if the implement employed loses its grip on the round, the operators fall backward and are frequently injured.

The purpose of this invention is to provide an extractor which is operable through the breech and which may be readily and firmly engaged with the round or case to be withdrawn.

With the foregoing and other objects in view, the invention resides in the novel arrangement and combination of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed may be made within the scope of what is claimed without departing from the spirit of the invention.

A practical embodiment of the invention is illustrated in the accompanying drawings, wherein:

Fig. 1 is a longitudinal sectional view through the improved extractor;

Fig. 2 is a detailed, sectional view on the line 2—2 of Fig. 1, the hook shown in its open position;

Fig. 3 is a view in side elevation, illustrating the application of the extractor to a dummy round;

Fig. 4 is a similar view showing the extractor in position to withdraw a ruptured cartridge case.

Referring to the drawings by numerals of reference:

The extractor comprises a cylindrical body 5, the forward extremity 6 being rounded to prevent injury to the chamber of the cannon upon insertion and the rear portion 7 being hollowed to receive a handle 8. Between the rounded extremity 6 and the rear portion 7, the body is formed with a slot 9 which is of sufficient length to receive a hook or finger 10 mounted at one end on a transverse trunnion 11 and secured thereto by means of a screw 12. The finger is formed with a flat surface 13 which engages the forward wall of the slot when extended perpendicularly to the body in position for engaging the unit to be removed from the chamber. By reference to Fig. 3, it will be seen that the finger must be folded within the body 5 in order to permit insertion in the aperture 14 provided in the base of a dummy round 15.

In Fig. 4, the extractor is shown in position to remove a ruptured cartridge case 16. Since the gun, on being fired, is generally inclined and the pull exerted by the crew on the handle of the extractor has an upward tendency, it will be observed that the rear portion 7 will engage and be supported by the cartridge case, thereby resulting in a firm grip being maintained by the finger on the foremost edge of the case.

I claim:

1. An extractor, including a body formed with a slot in its forward portion, a pin spanning the slot, a finger mounted on the pin and having a flat surface engageable with the end wall of the slot when the finger is perpendicular to the body and a screw threaded in the finger and engaging the pin.

2. An extractor, including a body formed with a slot in its forward portion and a finger formed to fit within the slot pivotally held at the forward end thereof and having a flat surface engageable with the end wall of the slot when the finger is perpendicular to the body.

EDWARD J. McCORMICK.