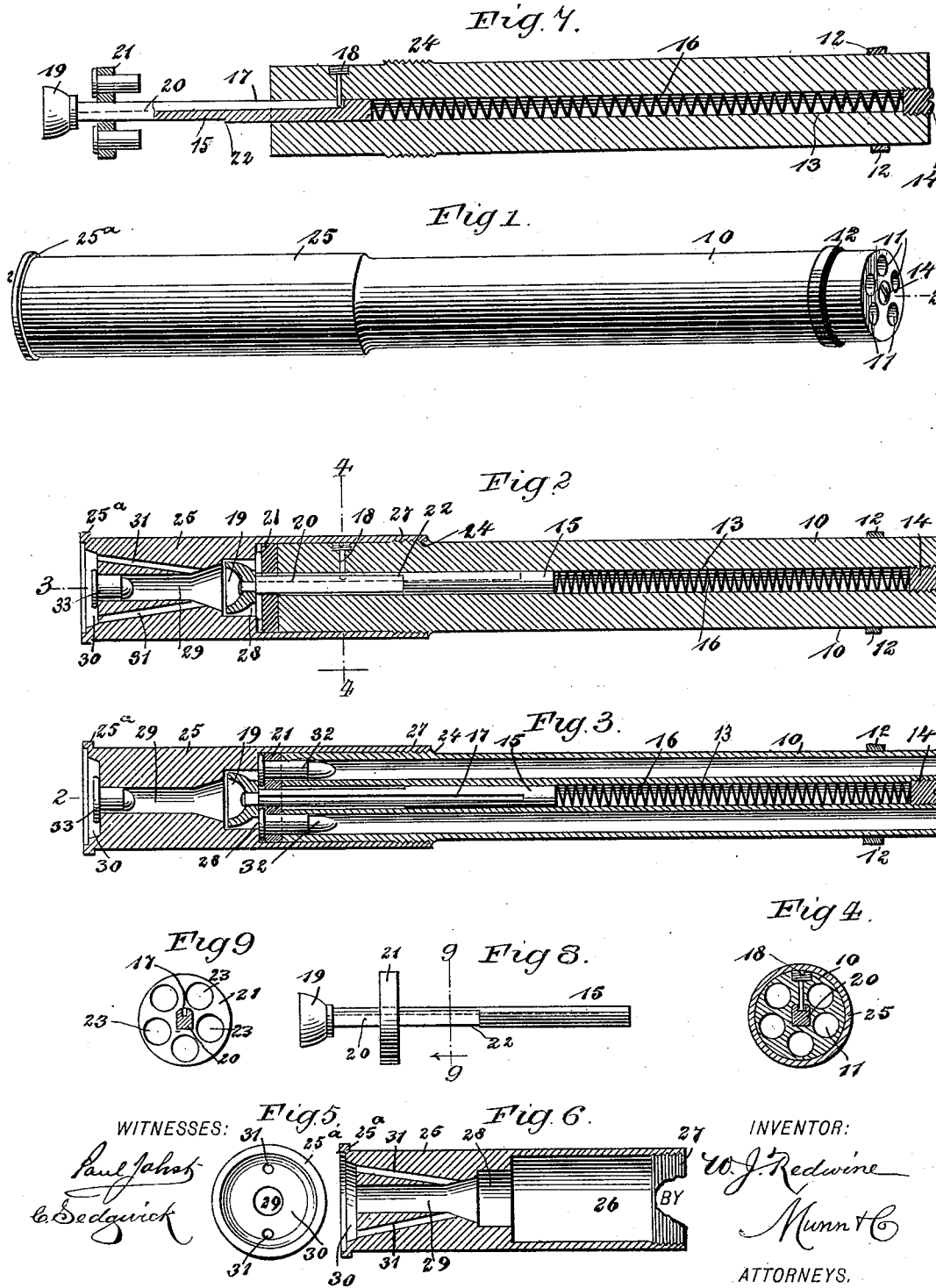


(No Model.)

W. J. REDWINE.
RIFLE ATTACHMENT FOR SHOTGUNS.

No. 490,614.

Patented Jan. 24, 1893.



UNITED STATES PATENT OFFICE.

WILLIAM J. REDWINE, OF CONCORDIA, KANSAS, ASSIGNOR OF ONE-HALF
TO N. B. BROWN, OF SAME PLACE.

RIFLE ATTACHMENT FOR SHOTGUNS.

SPECIFICATION forming part of Letters Patent No. 490,614, dated January 24, 1893.

Application filed May 13, 1892. Serial No. 432,869. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. REDWINE, of Concordia, in the county of Cloud and State of Kansas, have invented a new and Improved Rifle Attachment for Shotguns, of which the following is a full, clear, and exact description.

When using an ordinary shotgun, the hunter frequently runs across game which is too large to be killed with ordinary shot, or else desires to shoot a longer distance than he can with the usual shot charge, and the object of my invention is to provide a rifle attachment which may be quickly inserted in the barrel of an ordinary breech loading shotgun, and by means of which a small bullet or a number of bullets may be fired, so that a hunter when provided with the attachment and with the shotgun has the advantages in one implement of both a shotgun and rifle.

To this end, my invention consists in certain features of construction and combinations of parts, which will be hereinafter described and claimed.

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

Figure 1 is a perspective view of the attachment embodying my invention; Fig. 2 is a longitudinal section of the same, on the line 2-2 in Fig. 1; Fig. 3 is a similar section but taken through two of the bores of the barrel; Fig. 4 is a cross section on the line 4-4 in Fig. 2; Fig. 5 is a rear end view of the attachment; Fig. 6 is a central longitudinal section of the shell portion; Fig. 7 is a detail longitudinal section of the barrel and the ejector, the section being taken on the line 2-2 in Fig. 1; Fig. 8 is a detail side elevation of the ejector and its plunger; and Fig. 9 is a cross section on the line 9-9 in Fig. 8.

The implement or attachment is of a size to slip into a shotgun barrel, and it is provided with a barrel 10, having a number of parallel bores 11 therein, five being shown in the drawings, although any convenient number may be used, and if desired, these bores may be rifled after the manner of any ordinary rifle barrel. The barrel 10 is provided at its free end with a ring 12, which is shrunk upon it

and this enables it to fit nicely in the barrel of a shotgun, and also prevents the attachment from injuring the gun barrel. It will be seen that different thicknesses of rings may be used, so as to fit the barrel to any caliber of gun.

The barrel is provided with a central longitudinal bore 13, which is closed at its free end by a screw 14, and which carries at its rear end a sliding plunger 15. The screw 14 serves as a stop for a spiral spring 16, which is held within the bore 13, and presses backward upon the plunger 15. The plunger is grooved longitudinally through a greater part of its length, as shown at 17, and this groove receives the inner end of a screw 18, which is arranged transversely in the barrel near the butt, and the head of which is countersunk. The screw thus guides the plunger and limits its rearward movement. The rear end of the plunger terminates in a cup-like socket 19, and the rear portion of the plunger is squared, as shown at 20, so that the ejector 21 may slide thereon without turning. The plunger is provided with a shoulder 22, which by striking the ejector, throws the ejector rearward so as to carry the cartridge shells with it. The ejector is a disk of the same cross section as the barrel 10, and it is provided with bores 23, adapted to register with the bores 11 of the barrel.

The barrel 10, near its rear end, is slightly enlarged and threaded, as shown 24, so that the shell 25 may be screwed upon it. This shell takes the place of an ordinary cartridge shell and is adapted to fit snugly in the butt end of the gun barrel. To this end, it has a base flange 25^a which prevents it from being pushed in too far. It has at its front end a chamber 26, adapted to receive the butt of the barrel 10, and the front end of this chamber is screw threaded as shown at 27, so that the shell may be screwed to the barrel.

In the rear end of the chamber 26 is a recess 28, to receive the socket 19, and extending longitudinally through the central rear portion of the shell and opening from the recess 28 is a bore 29, adapted to receive the firing cartridge or flobert. The butt end of the shell is recessed centrally, as shown at 30, 100

and is provided with gas passages 31, extending diagonally from the front larger end of the bore 29 to the recess 30.

The device is used and operates as follows: To load it, the shell 25 is unscrewed and the cartridges 32 are placed in the ejector, and a firing flobert or small cartridge 33 is placed in the bore 29. The shell is then again screwed to place, and will force the plunger 15 inward against the spring 16 and crowd the ejector 21 up against the butt end of the barrel, as shown in Figs. 2 and 3. The attachment is then slipped bodily into the gun barrel and the gun is fired in the usual way. The striking pin of the gun will explode the flobert 33 and this will throw forward the socket 19 and plunger 15, thus exploding the rim fire cartridges 32, which will be expelled from the gun in the usual way. After the cartridges have been exploded, the attachment is removed, the shell unscrewed, and the spring 16 will throw back the plunger 15 and ejector 21, and the cartridges will drop from the ejector, or if they stick a little they may be easily knocked out.

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

1. An attachment of the character described, comprising a barrel having longitudinal bores therein, a spring-pressed ejector arranged at the butt end of the barrel and having bores to register with the barrel bores, a detachable shell secured to the butt of the barrel so as to inclose the ejector, and mechanism for exploding the cartridges, substantially as described.

2. An attachment of the character described, comprising a barrel having longitudinal bores,

a spring-pressed plunger held to slide in the butt end of the barrel, an ejector carried by the plunger and having bores to register with the barrel bores, and a shell detachably secured to the butt end of the barrel and having a longitudinal cartridge-holding bore aligning with the plunger, substantially as described.

3. An attachment of the character described, comprising a barrel having longitudinal bores, a spring-pressed ejector disk adapted to carry cartridges and having bores to register with the barrel bores, a detachable shell secured to the butt end of the barrel, said shell having a longitudinal cartridge holding bore aligning with the ejector, and branch bores opening outward from the central bore, substantially as described.

4. The combination, with the barrel having longitudinal bores, of the spring-pressed plunger held to slide in the rear end thereof, said plunger having a squared outer end portion with a shoulder thereon, a terminal socket, and an ejector disk held to slide on the plunger and having bores to register with the barrel bores, substantially as described.

5. An attachment of the character described, comprising a barrel having longitudinal bores therein adapted to receive cartridges, a detachable shell secured to the butt end of the barrel, a limiting flange produced on the butt end of the shell, a ring arranged around the front end of the barrel, and mechanism for exploding the cartridges in the barrel, substantially as described.

WILLIAM J. REDWINE.

Witnesses:

L. M. TARR,
A. GAY.