

(No Model.)

H. A. DARMS.  
RIFLE ATTACHMENT FOR SHOTGUNS.

No. 590,411.

Patented Sept. 21, 1897.

Fig. 1.

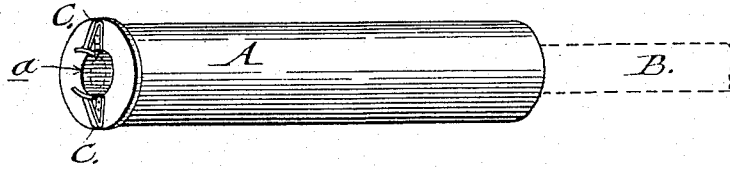


Fig. 2.

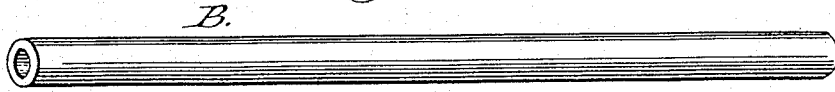


Fig. 3.

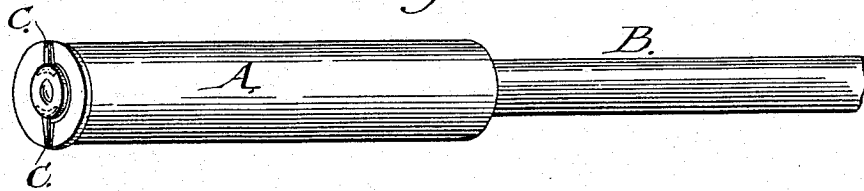
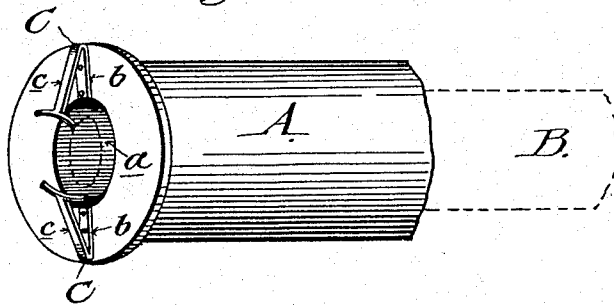


Fig. 4.



WITNESSES

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# UNITED STATES PATENT OFFICE.

HERMAN A. DARMS, OF NAPA, CALIFORNIA.

## RIFLE ATTACHMENT FOR SHOTGUNS.

SPECIFICATION forming part of Letters Patent No. 590,411, dated September 21, 1897.

Application filed October 31, 1896. Serial No. 610,649. (No model.)

*To all whom it may concern:*

Be it known that I, HERMAN A. DARMS, a citizen of the United States, residing at Napa, county of Napa, and State of California, have  
5 invented certain new and useful Improvements in Rifle Attachments for Shotguns; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to a rifle attachment  
10 adapted to be used in conjunction with shotguns; and it consists of the parts and construction and combination of parts hereinafter described and claimed.

Referring to the accompanying drawings,  
15 Figure 1 represents a perspective view of a cartridge with an opening in one end large enough to admit a supplemental rifle-barrel. Fig. 2 is a perspective view of the supplemental rifle-barrel. Fig. 3 illustrates the supplemental rifle-barrel in place in the cartridge and the rifle-cartridge in the barrel.  
20 Fig. 4 is a detail of a part of the cartridge, showing the ejector-springs.

The object of this invention is to provide  
25 an attachment which may be used in conjunction with ordinary shotguns by simply inserting it into the barrel, so that if game is discovered upon which it is necessary to use a rifle-ball the range and effectiveness of the  
30 gun can be proportionately increased.

In carrying out my invention I employ a cartridge similar to that of a cartridge-shell and of any standard gage, the gage depending upon that of the gun with which it is to  
35 be used. This cartridge A is made of metal, preferably brass or other non-corrosive metal, soft enough not to injure the gun-barrel, and the opening *a*, which is usually provided for the cap or primer, is made much larger than  
40 usual and large enough to receive the supplemental rifle-barrel B, which latter is held in place by any suitable and well-known means and is open at both ends, and is made of a good quality of steel or other metal.  
45 This barrel B has the rear end fitted into the

hole *a*, while its opposite end extends through the cartridge and some distance beyond the front end thereof.

The cartridge has secured to its usual flanged head or rim the ejector-springs C, 50 one on each side of the base of the rifle-barrel B, said springs being preferably of the form shown, and consisting of a member *b*, secured to said head, and an elastic member *c*, bent at an angle thereto and having its free 55 end forked or adapted to engage the flange or rim of the rifle-cartridge when the latter is placed in position in its barrel B. When the said cartridge is pushed in place, its flange or rim contacts with the forked portions of 60 the springs and results in the elastic or resilient members of the springs being pushed forward, and when the cartridge has been fired and the gun-breech broken the springs exert their power to start the empty cartridge- 65 shell out of the barrel B, so that it may be grasped with the fingers and entirely removed.

This attachment is simple, readily carried on the person, and quickly applied and removed, and in localities where game of different sizes is to be found it will be of great benefit to the sportsman.

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

75 The combination of a cartridge adapted to fit the gun-barrel, a rifle-barrel open at both ends and having its rear end fitted into the rear end of the main cartridge, and adapted to receive a ball-cartridge, and the ejector- 80 springs secured to the main cartridge and having their free ends in the path of and adapted to engage the rim or flange of the ball-cartridge, to start the empty shell thereof out of the rifle-barrel.

San Francisco, October 23, 1896.

HERMAN A. DARMS.

Witnesses:

J. A. STEPHENS,  
ROY M. SMITH.