

(No Model.)

J. K. BALLARD.

GUN BARREL.

No. 337,916.

Patented Mar. 16, 1886.

Fig. 1

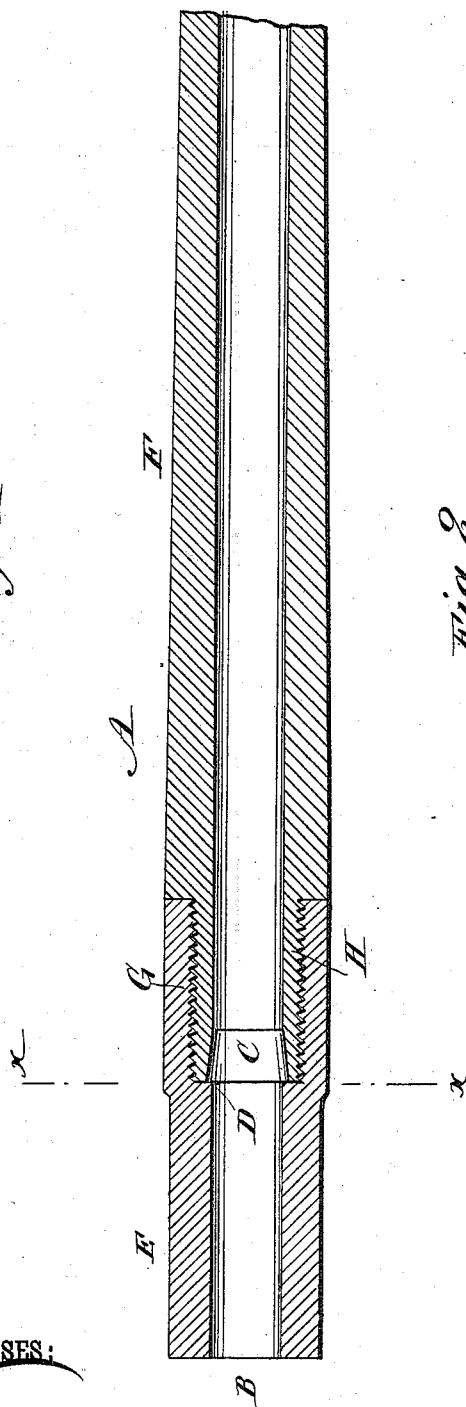
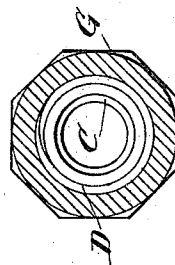


Fig. 2



WITNESSES:

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JOHN K. BALLARD, OF GRAYLING, MICHIGAN.

GUN-BARREL.

SPECIFICATION forming part of Letters Patent No. 337,916, dated March 16, 1886.

Application filed June 17, 1885. Serial No. 168,965. (No model.)

To all whom it may concern:

Be it known that I, JOHN K. BALLARD, of Grayling, Crawford county, Michigan, have invented certain new and useful Improvements in Barrels for Breech-Loading Fire-Arms, of which the following is a full, clear, and exact description.

In breech-loading fire-arms used heretofore cloth-patched cartridges could not be used, as the patch caught in the barrel and was not forced out of the same.

The object of my invention is to provide a new and improved barrel for breech-loading fire-arms, which barrel is so constructed that cloth-patched cartridges can be fired without causing the patch to catch in the barrel.

The invention consists in a barrel for fire-arms, made substantially as shown and described hereinafter, and pointed out in the claims.

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

Figure 1 is a longitudinal sectional elevation of the breech part of a gun-barrel of my improved construction; and Fig. 2 is a cross-sectional elevation of the same on the line *x x*, Fig. 1.

The barrel A is provided a short distance in front of its breech end, B, with an annular groove, C, in its bore, the said groove increasing in diameter from the front or muzzle end of the barrel toward the rear, or is tapered from rear to front, whereby an annular shoulder, D, is formed in the barrel.

As it would be very difficult to cut the

groove C in a barrel made of a single piece, I make the barrel of the breech-piece E and the main barrel-section F. The main barrel-section F has an externally-screw-threaded neck, H, at the rear end, and the breech-piece E has an internally-screw-threaded socket at G at its front end, into which socket the neck is screwed. The end of the neck H is widened to form the annular groove C, and the bottom of the socket G forms the annular shoulders D. The cartridge is passed into the breech end of the barrel, and when the cartridge is exploded the bullet and also the cloth patch surrounding the same are thrown out of the barrel. The beveled part C of the bore guides the patch to the middle and prevents its catching or binding on the inside of the barrel.

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

1. A fire-arm barrel having an annular groove a short distance in front of the breech, and which groove increases in diameter in the direction from the muzzle to the breech, and forms a shoulder at its largest end, substantially as herein shown and described.

2. The combination, with the breech-piece E, having the socket G, of the barrel-section F, having a neck, H, in the socket G, which neck has its bore flared at the end to form an annular groove, C, substantially as herein shown and described.

JOHN K. BALLARD.

Witnesses:

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JNO. J. COVENTY,
WM. R. STECKERT.