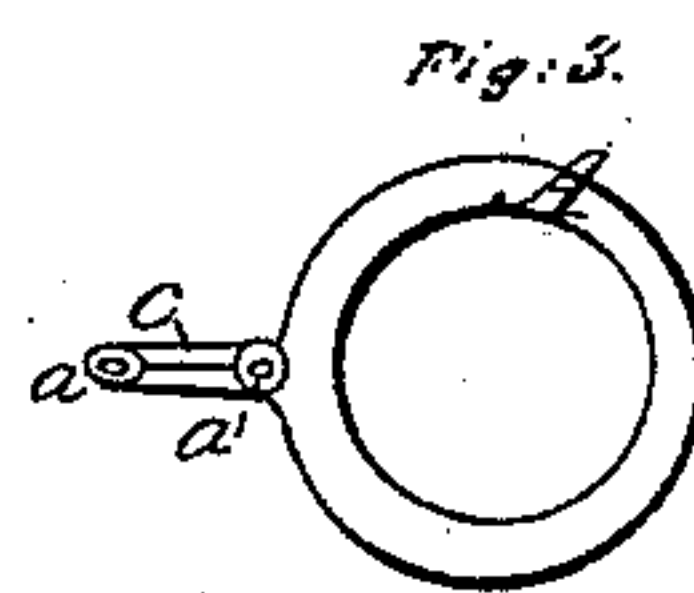
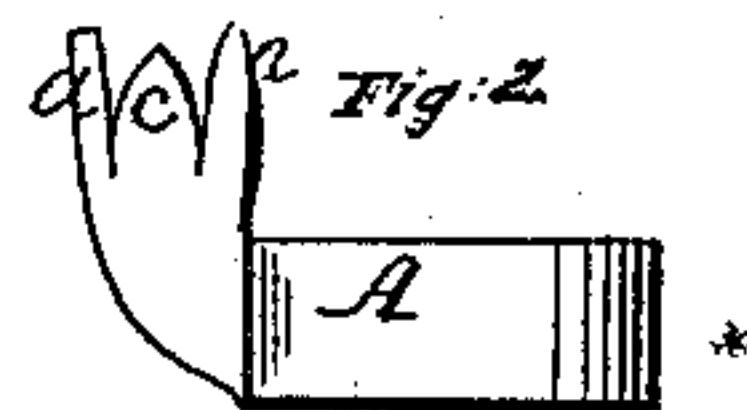
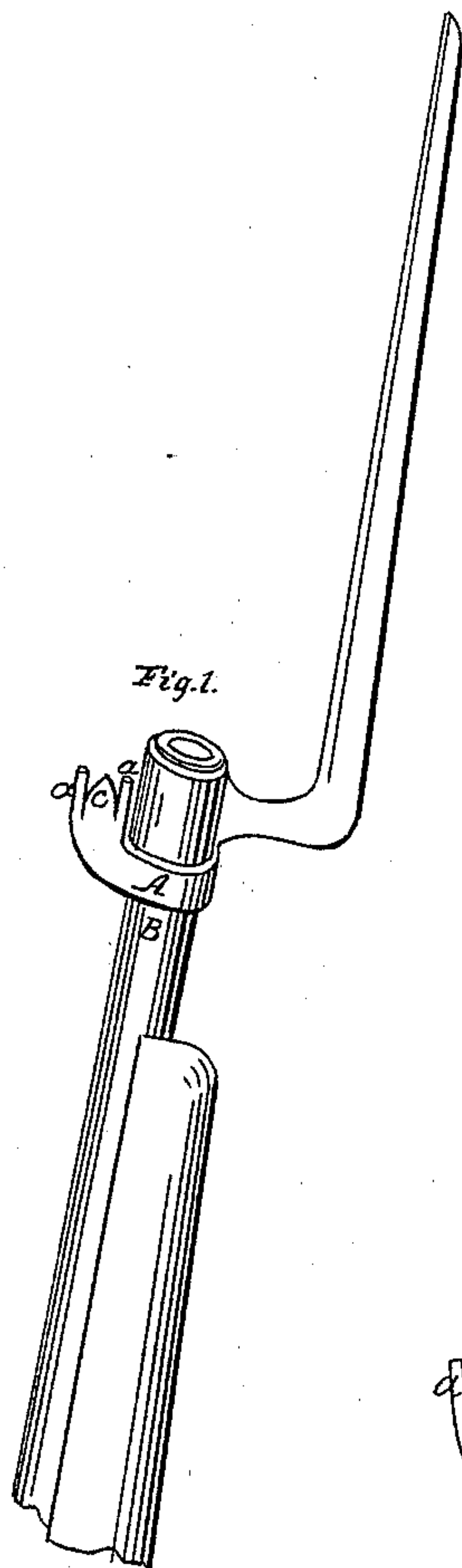


D. KELLY.  
Bayonet.

No. 37,171.

Patented Dec. 16, 1862.



Witnesses  
J. W. Corbin  
C. W. Reed

Inventor.  
D. Kelly  
per J. W. Corbin  
Attorney

# UNITED STATES PATENT OFFICE.

DANIEL KELLY, OF GRAND RAPIDS, MICHIGAN.

## IMPROVEMENT IN CARTRIDGE-TEARERS FOR MUSKETS.

Specification forming part of Letters Patent No. 37,171, dated December 16, 1862.

*To all whom it may concern:*

Be it known that I, DANIEL KELLY, of Grand Rapids, in the county of Kent and State of Michigan, have invented a new and Improved Device to be Attached to Muskets and Rifles for Tearing Cartridges; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view of the upper part of a musket with my cartridge-tearer applied. Fig. 2 is a side view of the cartridge-tearer. Fig. 3 is a top view of the same.

Similar letters of reference indicate corresponding parts in the several figures.

To enable others skilled in the art to make and apply my invention, I will proceed to describe it with reference to the drawings.

A is a band of steel or malleable cast-iron fitted tightly to the barrel B of the gun, and having the two horns *a a* and interposed fleam-like tooth *c* made in the same piece with and standing out radially from it in an upright position, the horns being at such distance apart as to be capable of receiving between them the fold of the paper which closes the cartridge.

The operation of tearing the cartridge is as follows: The barrel is held in the left hand, as is usual in loading, and the cartridge, on being taken from the box with the right hand, has the folded neck placed between the horns *a a* on the tooth *c*, upon which it is then pressed with the forefinger of the left hand, while with the right the body of the cartridge is pulled away from the tooth, and so has the neck torn off without spilling the powder, which is then poured from it into the barrel.

The horns and fleam-like tooth may be made in one piece separate from the band A, or other means of attaching them to the barrel and hinged thereto in such manner as to enable them to be folded against the barrel when not required to be used.

What I claim as my invention, and desire to secure by Letters Patent, is—

A cartridge-tearer composed of a ring or band with two horns, *a a*, and tooth *c* between the horns, said horns, tooth, and ring being all made in one piece, and operating as herein set forth.

DANIEL KELLY.

Witnesses:

THOMPSON SINCLAIR,  
C. H. CHASE.