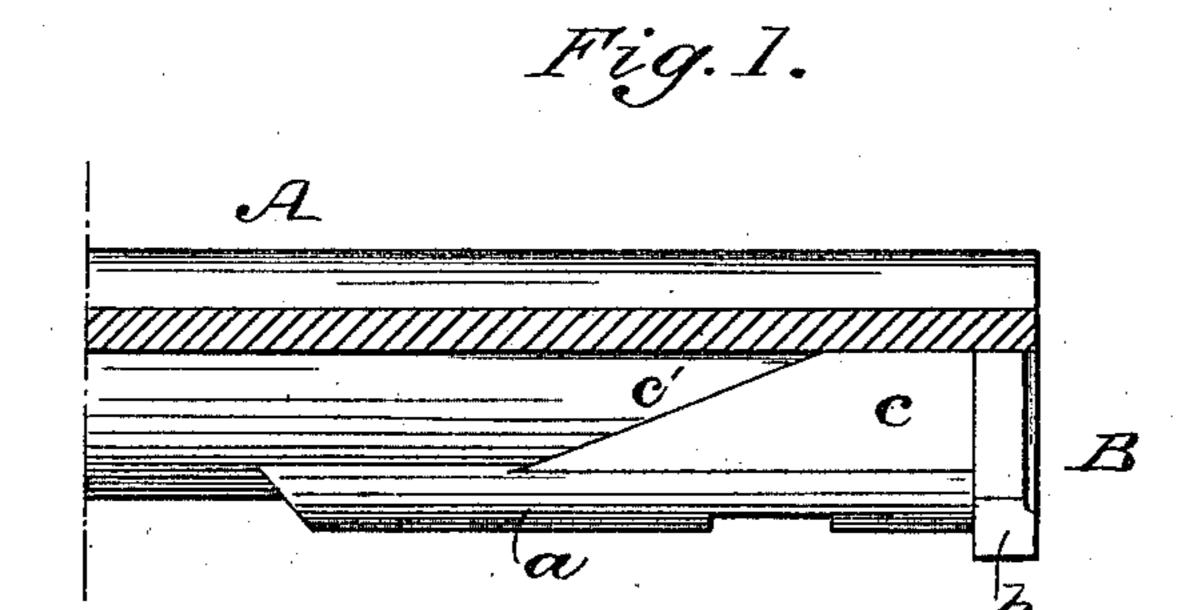
(No Model.)

N. O. WAYMIRE.

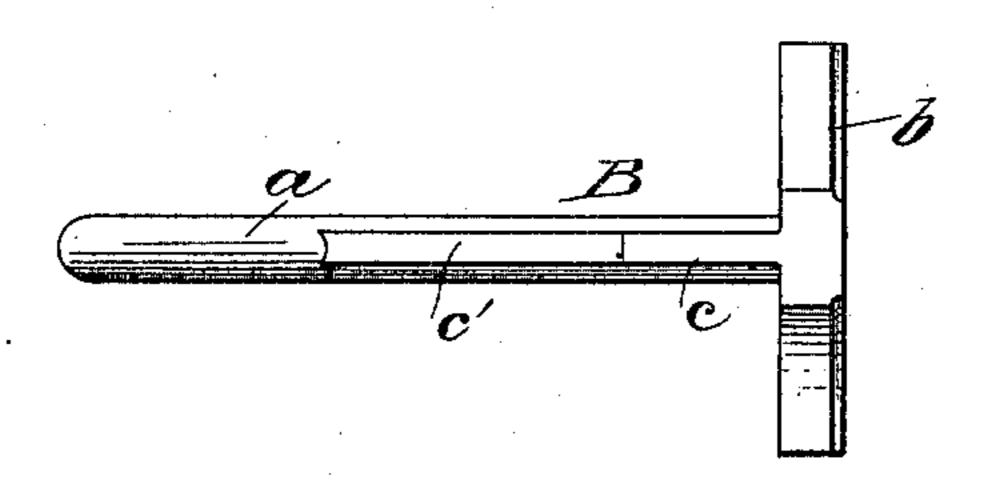
SHELL EXTRACTOR FOR FIRE ARMS.

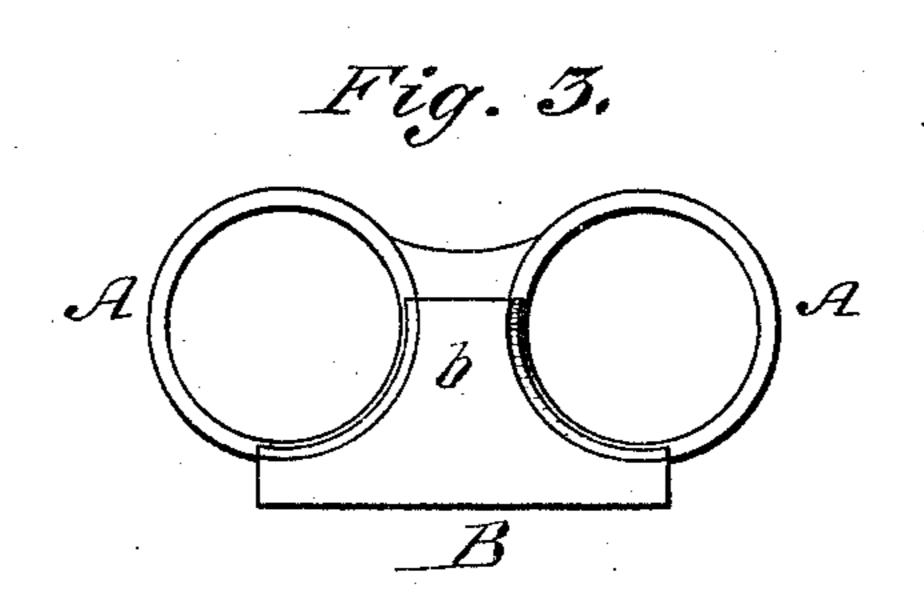
No. 299,302.

Patented May 27, 1884.









WITNESSES:

Dohner Odeenner b. Sedgwick TNVENTOR

BY Munn & Co

ATTORNEYS.

United States Patent Office.

NORRIS O. WAYMIRE, OF GARFIELD, KANSAS.

SHELL-EXTRACTOR FOR FIRE-ARMS.

SPECIFICATION forming part of Letters Patent No. 299,302, dated May 27, 1884.

Application filed December 12, 1883. (No model.)

To all whom it may concern:

Be it known that I, Norris O. Waymire, of Garfield, in the county of Pawnee and State of Kansas, have invented a new and Improved Shell - Extractor for Breech - Loading Fire-Arms, of which the following is a full, clear, and exact description.

This invention relates more particularly to the shell-extractors of double-barreled breakto down guns; and it consists in the construction of parts as will be hereinafter described, and specifically set forth in the claim.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate cor-

responding parts in all the figures.

Figure 1 is a sectional elevation taken between the barrels of a double-barreled gun, showing my improved extractor in place.

20 Fig. 2 is a plan view of the extractor removed; and Fig. 3 is an end elevation of the barrels of a double-barreled gun, showing the plate portion or head of the extractor.

A A represent the barrels of the gun, between which my new and improved extractor
B is placed in the ordinary or any approved
manner. The extractor B is composed of the
stem a, plate portion or head b, and the brace
c, which braces the head b from the said stem
30 a. The brace c is by preference made of steel

30 a. The brace c is by preference made of steel in the form of a fin, formed or secured in the

angle formed by joining the stem a and head b, so that while it braces the head b it at the same time serves to stiffen the stem a, thus making the extractor as a whole both strong 35 and rigid in all directions, so that it is as durable as the other working parts of the gun, and will not spring sidewise and fail to do its work. The fin c is by preference beveled off at its forward or inner end, as shown at c', to 40 avoid unnecessary cutting of the barrel.

I am aware that the stem of an extractor has been provided with a slight enlargement at its juncture with the head of the extractor, and that a short guide-stem has been secured 45 directly above the long stem to the head on an extractor, and I do not desire to claim such as of my invention.

Having thus described my invention, I claim as new and desire to secure by Letters Patent— 50

An improved cartridge-extractor, consisting of the stem a and a head, b, connected together by the brace c, which extends along the upper surface of the stem and flush with the top of the head, the said brace being beveled at c', 55 and serving as a guide as well as a brace, substantially as set forth.

NORRIS O. WAYMIRE.

Witnesses: W. K. TRUESDELL,