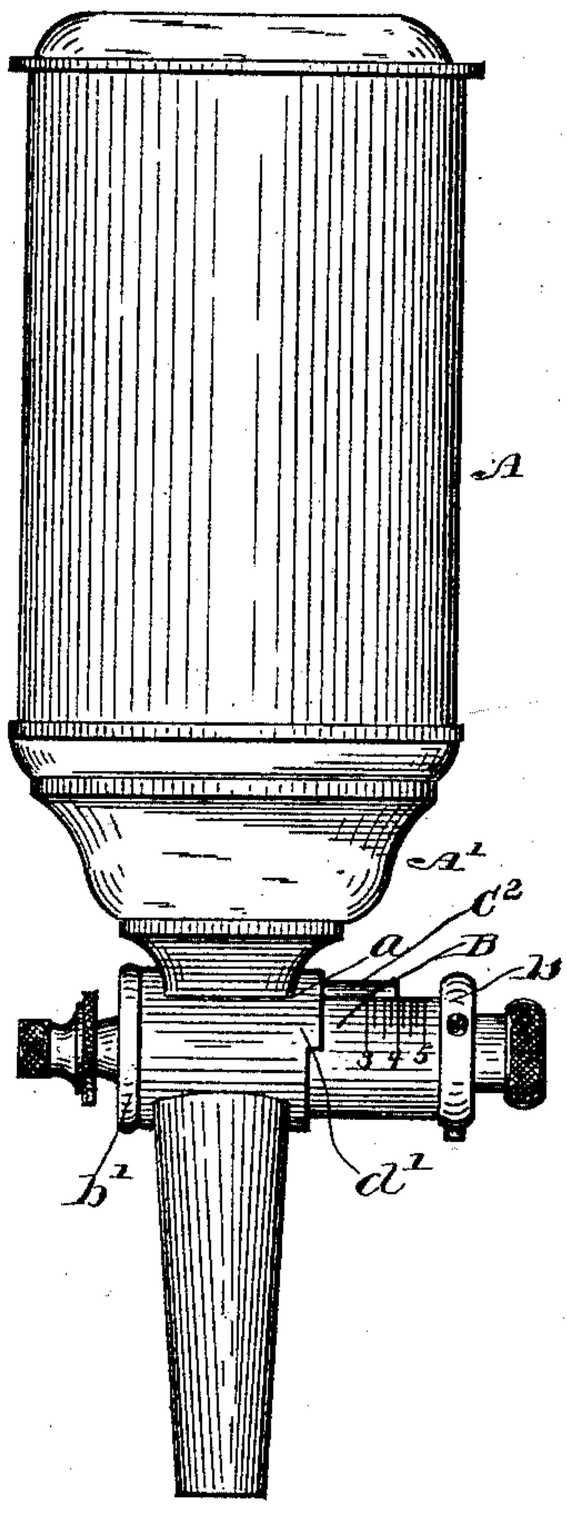
(No Model.) 2 Sheets—Sheet 1.

H. C. SEVERANCE.

POWDER CHARGER.

No. 328,346. Patented Oct. 13, 1885.

Fig. 1.



WITNESSES.

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(No Model.) 2 Sheets—Sheet 2.

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Fig. 2.

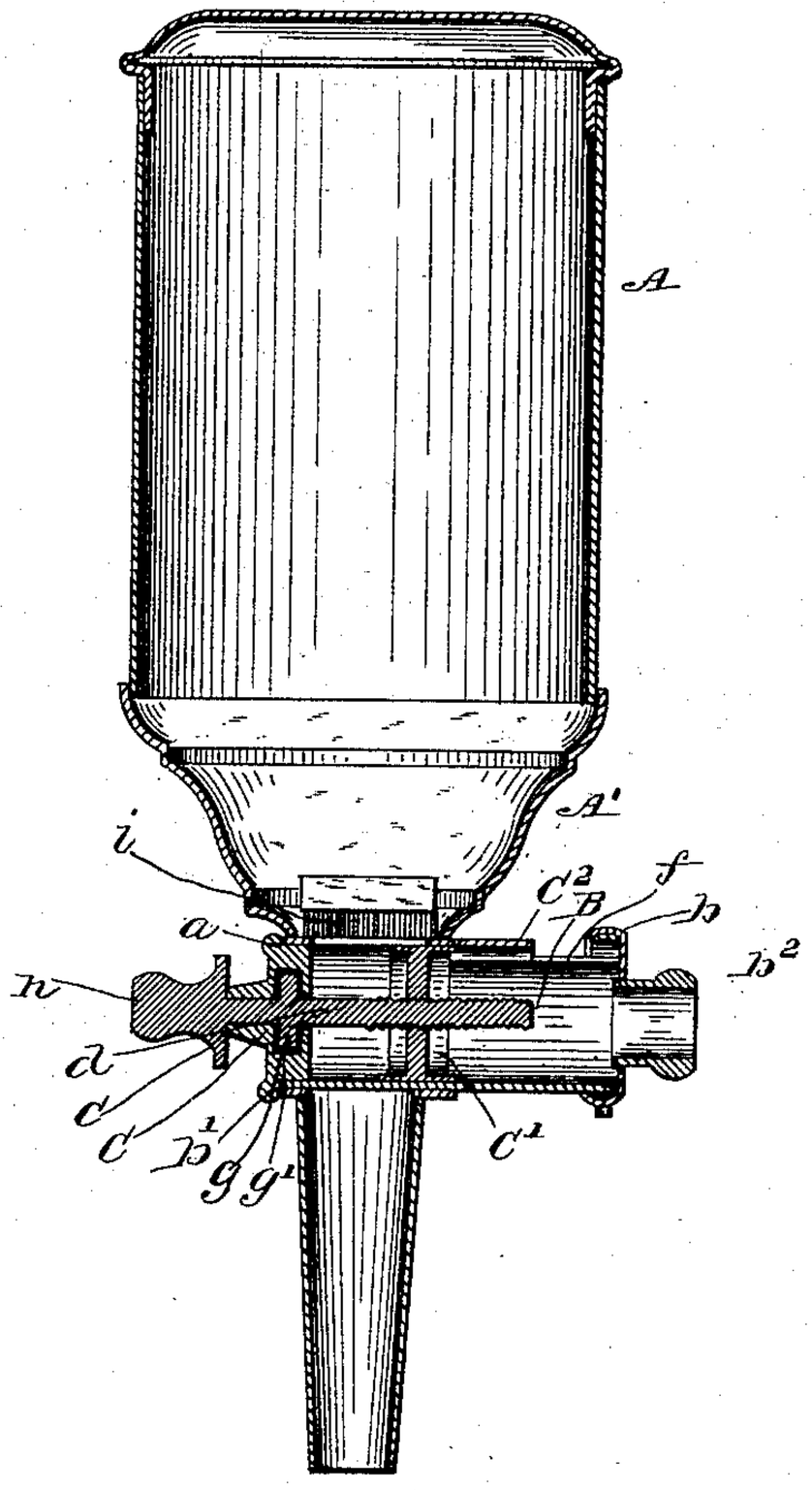
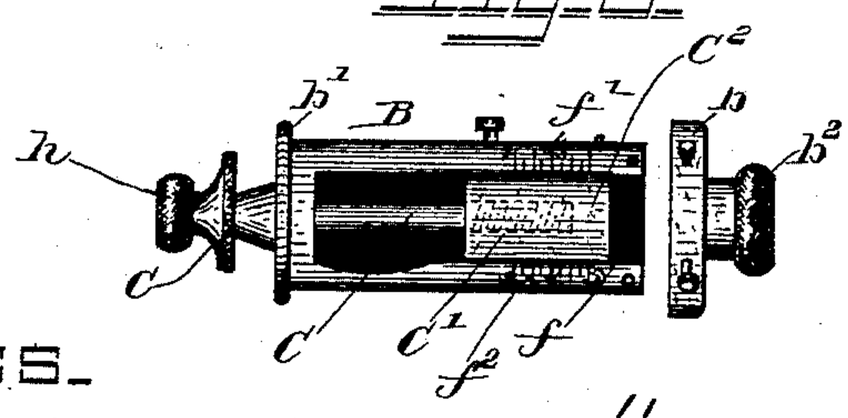


Fig. 3.



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UNITED STATES PATENT OFFICE.

HENRY CLAY SEVERANCE, OF PHELPS, NEW YORK.

POWDER-CHARGER.

SPECIFICATION forming part of Letters Patent No. 328,346, dated October 13, 1885.

Application filed March 17, 1885. Serial No. 159,226. (No model.)

To all whom it may concern:

Be it known that I, HENRY CLAY SEVERANCE, a citizen of the United States of America, residing at Phelps, in the county of Ontario and State of New York, have invented certain new and useful Improvements in Implements for Loading Shot-Gun Shells, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention has for its object the provision of means or a contrivance specially designed to charge cartridge-shells with powder and shot in the required proportions in the manufacture of cartridges for fire-arms; and the invention consists of a funnel or cylinder, the tubular portion of which is provided with a gage of cylindric contour and fitted with an adjustable disk, preferably provided with a cylindric flange or index registering with graduations upon the cylinder containing the gage, substantially as hereinafter more fully set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation of my invention. Fig. 2 is a sectional elevation of the same. Fig. 3 is a view in plan showing the gage removed from the tubular portion of the funnel or cylinder, the head of the latter having the manipulating milled knob, also shown removed a little interval from the gage.

In the embodiment of my invention, as above outlined, I employ a funnel or cylinder, A, having its tubular tapering portion A′ near its point of connection with the tapered or flared lower surface or bottom of the cylinder or funnel provided with a cylindric casing, *a*, communicating with the interior of said tubular portion of the funnel. Fitted so as to be turned in said casing is an elongated or extended cylinder, B. Said cylinder, having one head, *b*, removable, as shown, is inserted therein and retained in position by means of the flanged edge of its opposite fixed head, *b′*, the latter fitting against one edge or end of said casing, and by means of a screw, *d*, projecting from the cylinder B and resting against the opposite end or edge of the cylinder B. The movement or extent of the turning of the cylinder B is limited by the formation of shoulders, as at *d′ d′*, upon said latter edge or end of the cylinder, which may be produced by cutting out or removing a segment from said end or edge just equal to about half the circumference of the cylinder-casing *a*, which will provide for the full opening or registration of the opening *f* of the cylinder B, both with the opening in the upper side and the opening in the lower side of the said casing, which obviously is to allow of the unobstructed filling and emptying of the cylinder B. The head *b* of the extended portion of the cylinder B is provided with a roughened or milled knob-like extension or projection, b^2, for convenience in grasping and turning the cylinder B in filling and emptying the same. Through the other head, *b′*, of the cylinder B passes the unthreaded or plain portion or shank of a screw, C, which is provided with the disk or gage C′, said screw having a fixed circular shoulder or enlargement, *g*, fitting within an annular recess or chamber, *g′*, of the said head, to enable it to retain a relatively-fixed position to the latter as the screw is turned in effecting the movement of the disk or gage C′. The outer end of the shank of the screw C is provided with a milled or roughened head or knob, *h*, and with a flange a short distance inward from said head or knob, also to permit it to be readily grasped and the screws to be conveniently turned. It is obvious that by turning the screw in the required direction, which will cause the movement of the disk or gage partitioning the chamber of the cylinder B, the holding capacity of the cylinder may be varied to gage it according to whether it be powder or shot that is to be used, (different measurement being required for these in charging cartridges, as is well understood,) the size of the charge requiring, of course, the varying of the quantity of both the powder and the shot.

For readily determining the point of adjustment to which it may be required to set the gage or disk C′ in gaging the quantity of powder or shot wanted, I mark the cylinder B with a scale or graduation for the measurement of powder upon one side of the opening *f*, as at *f′*, and with a different scale or graduation for the same of the shot upon the opposite side of said opening, as clearly shown at f^2, and I provide the disk or gage C′ with a segmental flange or projection, C^2, which fits and moves in the said opening *f*, along the edges of the latter and opposite the said graduations, thus serving as an index for the disk or gage.

Within the extreme lower portion or bottom of the cylinder B, at its opening, is secured a fine haired or bristled brush or cleaner, *i*—or this may be of other suitable material—to remove all the shot or powder, to prevent it from catching between the edges of the two cylinders and stopping the charge.

With the funnel filled with powder or shot, as the case may be, it will be seen that the same, when the cylinder B is so turned as to present its opening upward, will flow into said cylinder and fill it, and that by turning the cylinder to the right its contents will be emptied into the lower part of the tubular portion or leg of the funnel, whence the same will be caused to enter and charge the cartridge-shell, which operation is repeated twice in filling or charging each cartridge-shell.

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

1. The funnel with its tubular portion provided with a semi-revolving or turning cylinder having an opening in one side, and a disk or gage adjustable upon a screw with its shank projecting through one head or end of the cylinder and having an operating-knob, substantially as and for the purpose set forth.

2. The funnel with its tubular portion provided with an open-sided cylinder, the open side of said cylinder having graduations arranged upon opposite sides of the opening, in combination with the disk or gage having a segmental flange or index fitted in said opening and the gage or disk adjusting-screw having a manipulating knob or projection, substantially as and for the purpose set forth.

3. The funnel with its tubular portion provided with a semi-revolving or turning cylinder, whose axis of revolution extends across such tubular portion, and having an opening in one side, a disk or gage adjustable upon a screw within the cylinder, and a brush or cleaner located at the opening in said tubular portion into the measuring-cylinder, substantially as shown, and for the purpose specified.

4. The funnel with its tubular portion provided with a brush or cleaner located at the opening of said tubular portion into the cylinder, in combination with the open-sided cylinder, whose axis of revolution extends across such tubular portion, and the adjustable disk or gage secured therein, substantially as shown, and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY CLAY SEVERANCE.

Witnesses:

ARTHUR VINCENT,

JOHN H. BOURNE.