(No Model.)

# W. N. BEARDSLEY.

## POWDER AND SHOT CHARGER.

No. 551,710. Patented Dec. 17, 1895.

FIG. 1

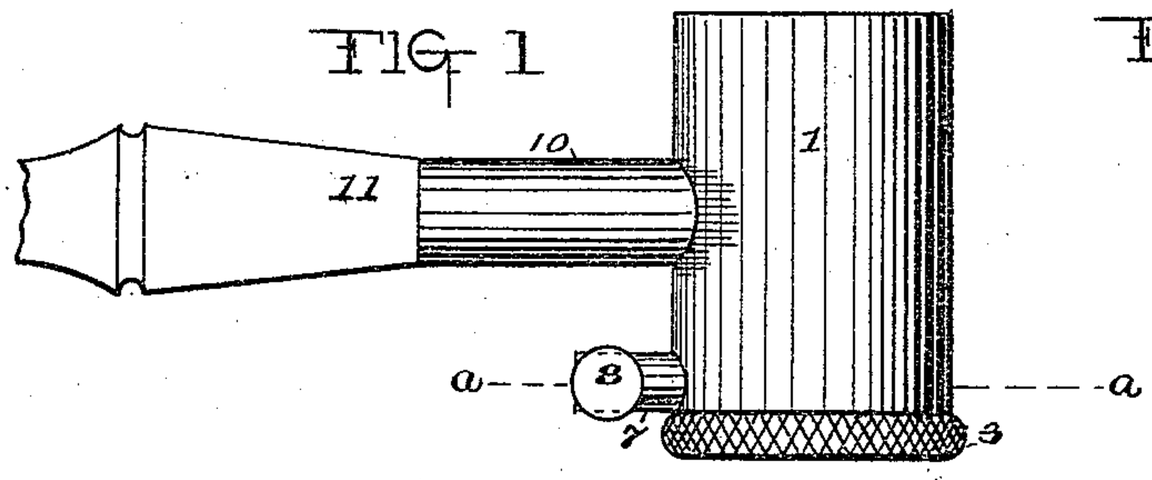



FIG. 2

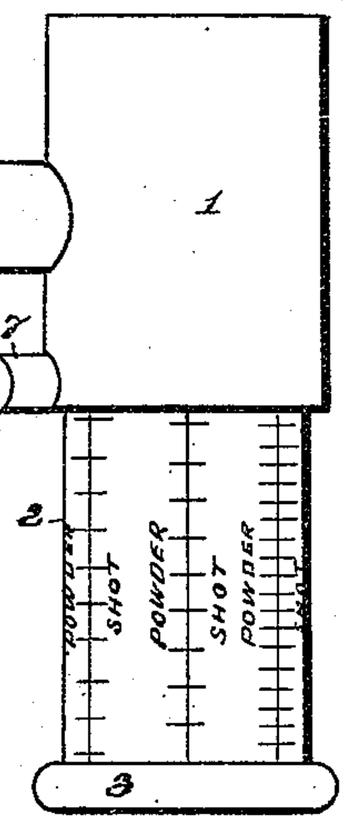



FIG. 3

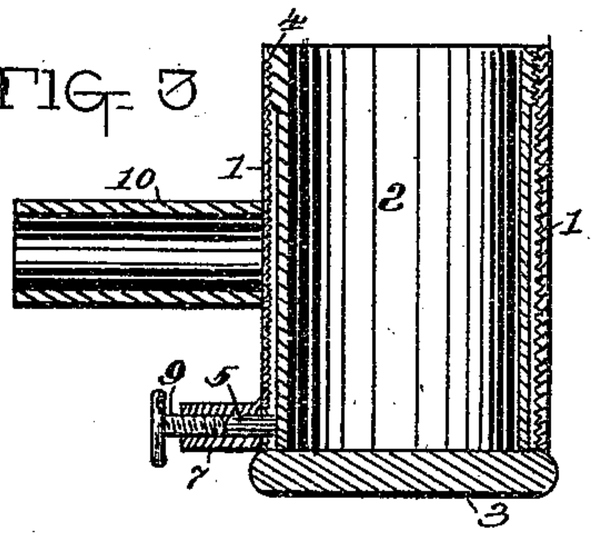



FIG. 4

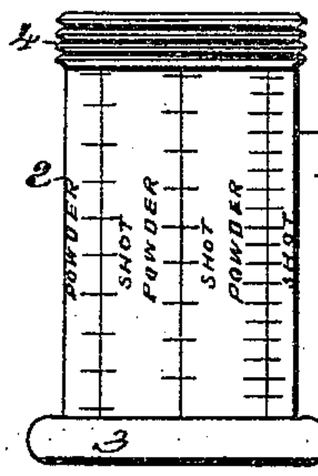
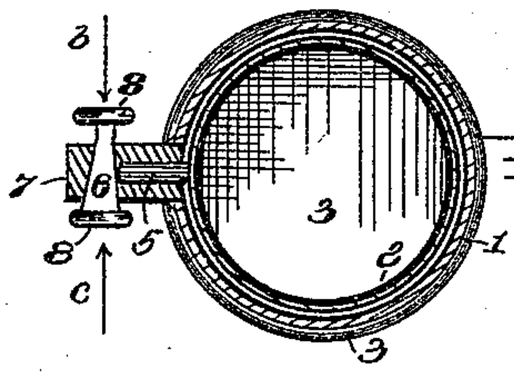



FIG. 5

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# UNITED STATES PATENT OFFICE.

WILLIAM N. BEARDSLEY, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO MARCELLUS HARTLEY AND MALCOLM GRAHAM, OF NEW YORK, N. Y.

## POWDER AND SHOT CHARGER.

SPECIFICATION forming part of Letters Patent No. 551,710, dated December 17, 1895.

Application filed February 4, 1895. Serial No. 537,179. (No model.)

*To all whom it may concern.*

Be it known that I, WILLIAM N. BEARDSLEY, a citizen of the United States, and a resident of Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Powder and Shot Chargers, of which the following is a specification.

My invention relates to an improvement in powder and shot chargers, and has for its object the construction of a charger calculated to give a short and positive adjustment by means of an interiorly-threaded outer shell, to which the handle portion is attached, and a movable inner cup having a short threaded portion at its upper end to engage with the threaded interior of the outer shell, thus dispensing with the positive locating-notches, usually employed, and all openings whereby the contents can escape.

To enable others to understand my invention, reference is had to the accompanying drawings, in which—

Figure 1 represents a closed side elevation of my improved charger and broken section of the wooden handle, and Fig. 2 is a side elevation of the charger in open position by extending the cup below the outer shell. Fig. 3 is a vertical central section of the closed charger, showing a modified form of securing the cup in any position within the outer shell. Fig. 4 is a detail side elevation of the movable cup. Fig. 5 is a horizontal sectional view through line *a* of Fig. 1.

Its construction and operation are as follows:

1 represents the outer shell, open at the top and bottom. The interior of this shell is threaded its entire length, as shown at Fig. 3. The cup 2 is closed by the bottom 3 and has the threaded portion 4 on its outer cylindrical surface and extending about one-eighth ($\frac{1}{8}$) of an inch below the mouth or upper end, which threaded portion engages with the interior-threaded portion of the shell 1. This threaded part of the cup, which is necessarily larger than the main body, may be formed either by reducing the said main body or by sweating on a ring of metal and threading the same.

To temporarily secure the cup in any of its adjusted positions I employ the stop-pin 5, Fig. 5, which is actuated by the tapered push-pin 6, which has a lateral movement in the boss 7 of the outer shell 1. The heads 8 of said pin afford means by which it is operated by the thumb and forefinger of the hand in either direction, as represented by the arrows *b c*, so as to force the pin 5 against the cup 2 or release the pressure thereon by moving the pin 6 in the opposite direction.

A modification of the manner of operating the stop-pin may be seen at Fig. 3, where the screw 9 is inserted in a threaded hole in the end of the boss 7, the forcing of which screw against said pin will lock the cup 2, while turning back said screw will release the pressure on said cup so that it may be freely moved.

10 is the usual tubular shell, attached to the outer charger-shell 1, for the wooden handle 11.

As there are various kinds of powder used by sportsmen, of which no two are alike in bulk or strength, therefore, for each kind of powder a separate charger is required, owing to the positive and arbitrary position of the notches usually employed for locating the charger-pin. In my improved charger no positive locating-notches are used, thus enabling the charger to be used for as many different kinds of powder as the outer cylindrical surface of the charger-cup will contain the required graduations therefor.

The threaded feature of the cup and shell will give a more positive, easy and accurate adjustment than can be obtained in any other way, more so than if the two were made with a sliding or telescopic fit, thus requiring a direct longitudinal instead of a rotary movement of the cup, and this threaded feature would be particularly noticeable when, to make the charger at less expense, the locking device is dispensed with, as then, when dipping the cup into the powder or shot, it would not, if ordinary care is taken, be moved, while with the telescopic arrangement it would have to be so tightly fitted, to prevent this movement, that it would be a difficult and vexatious operation to adjust.

Other means or manner of graduating the charger may be employed, if desired.

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

1. In a charger, of the character described, an interiorly threaded outer shell open at both ends; a cup having the short threaded exterior portion 4 to engage with the threaded portion of said shell; smooth cylindrical body 2 which body is below said threaded portion and between the same and the enlarged bottom 3; graduation on such cylindrical body, and means for locking said cup within the shell, as set forth.

2. In a charger, of the character described, an interiorly threaded outer shell open at both ends, a cup having a short threaded exterior portion, near its mouth, to engage with the threaded portion of said outer shell, a stop pin to engage the outer surface of said cup to lock it in any desired position, means for supporting said pin, a laterally operated and tapered push pin to engage the outer end of said stop pin, for the purpose described, means for supporting said push pin, graduations on the outer cylindrical surface of said cup, as described and for the purpose set forth.

Signed at Bridgeport, in the county of Fairfield and State of Connecticut, this 29th day January, A. D. 1895.

WILLIAM N. BEARDSLEY.

Witnesses:

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