

No. 833,920.

PATENTED OCT. 23, 1906.

A. N. CRAWFORD.
CHALK LINE HOLDER.
APPLICATION FILED JULY 25, 1906.

FIG. 1.

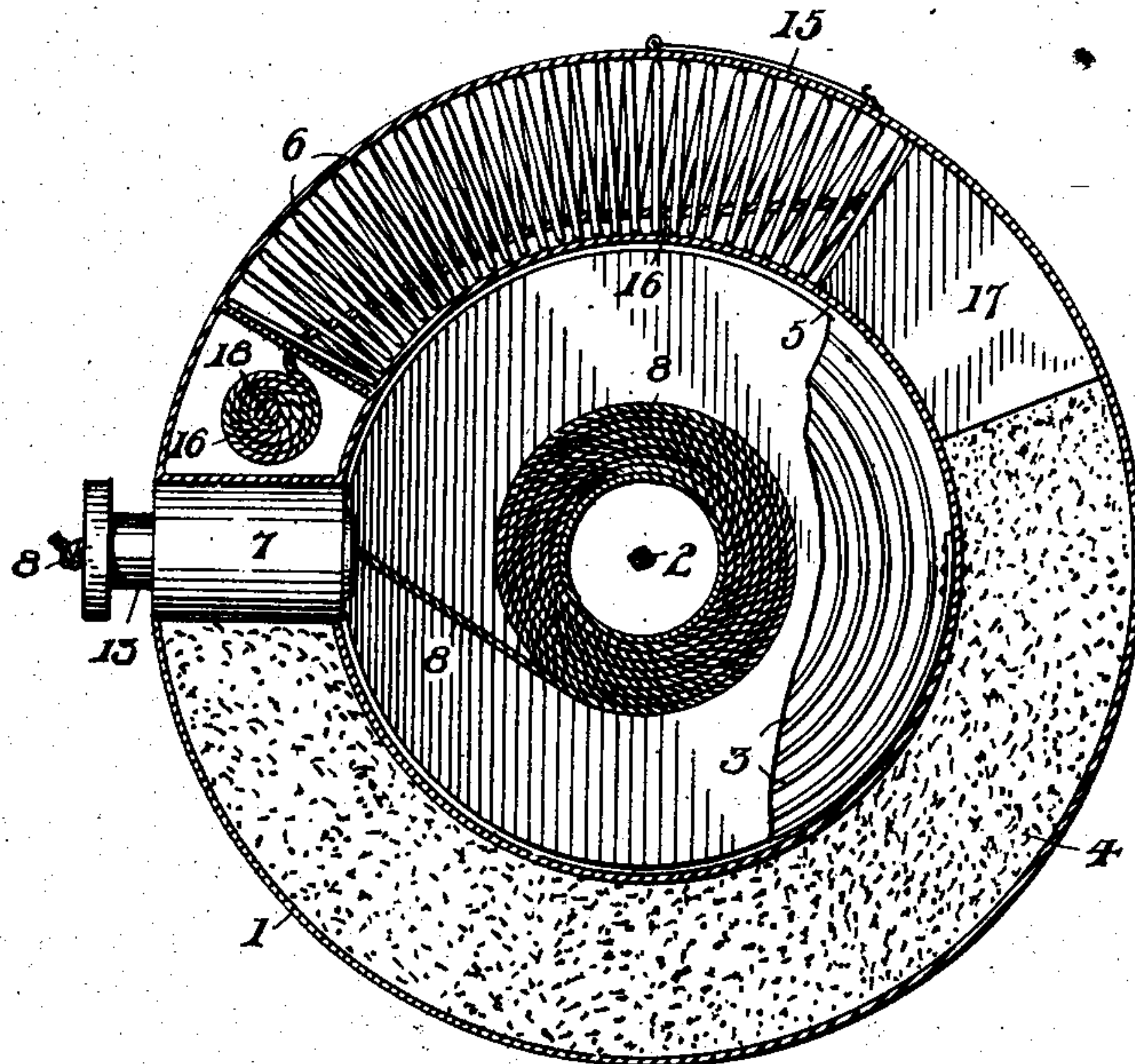


FIG. 2.

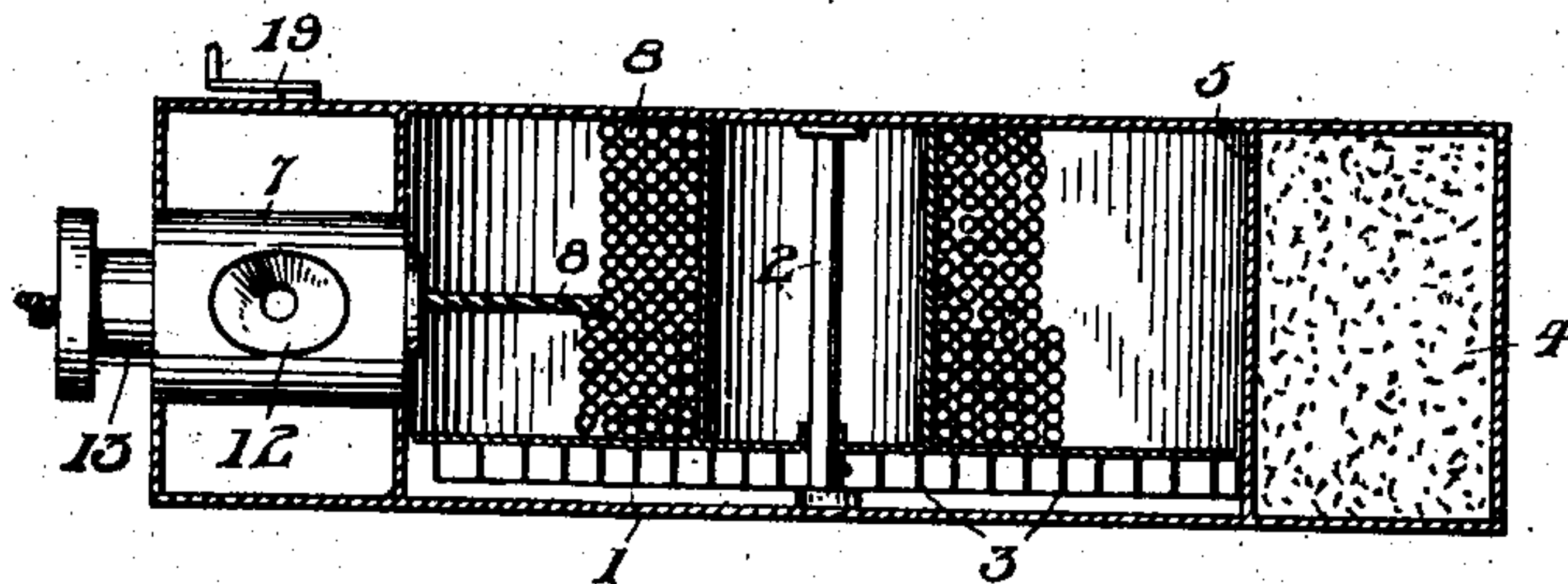


FIG. 3.

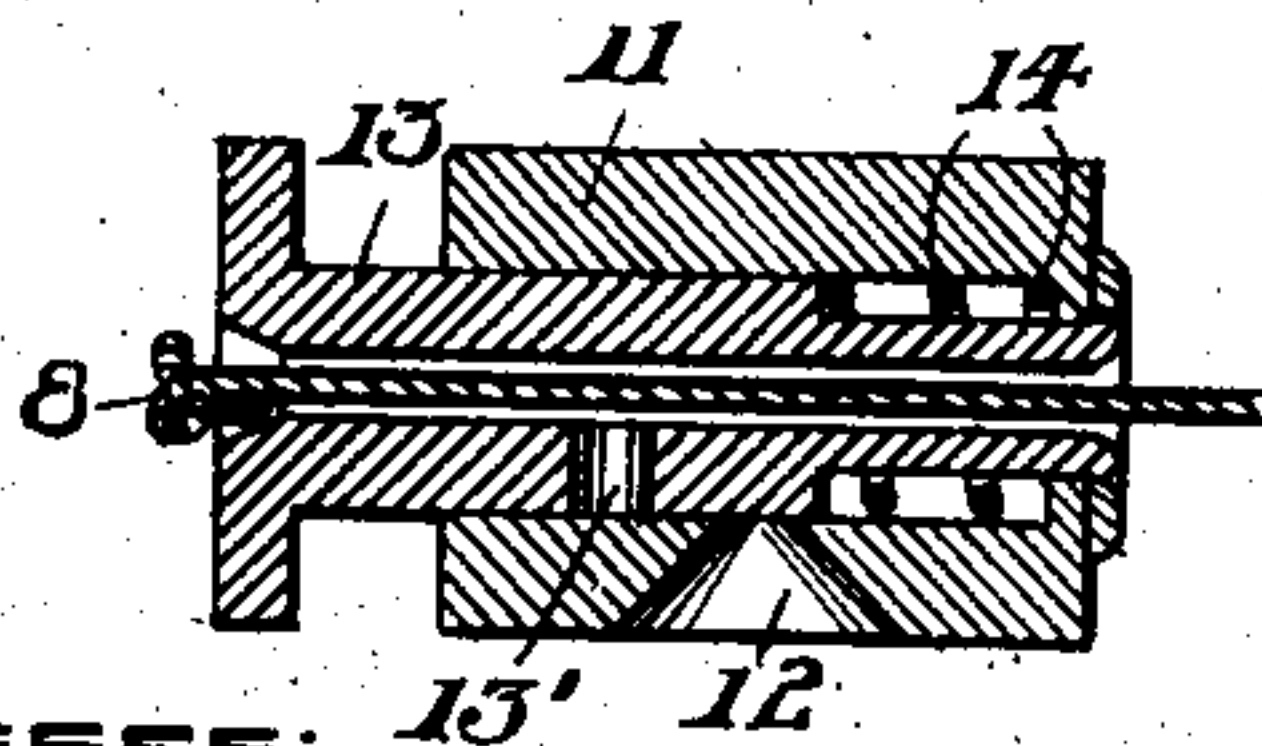


FIG. 5.

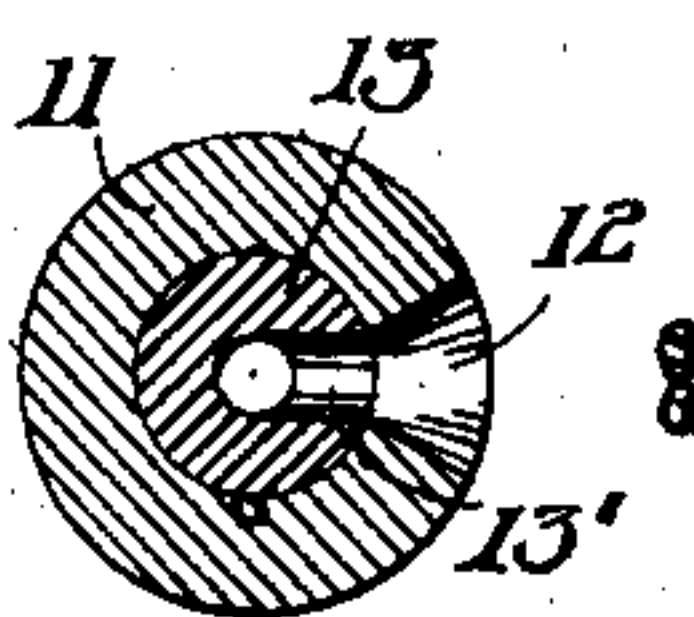
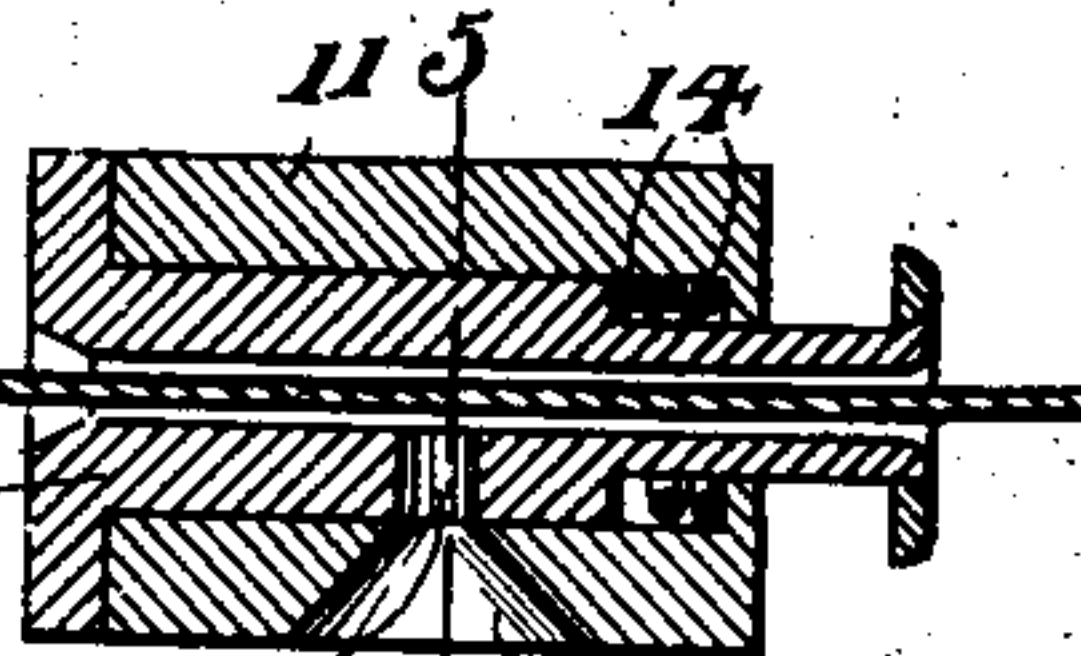


FIG. 4.



WITNESSES:

J. P. Appleman,
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FIG. 6.

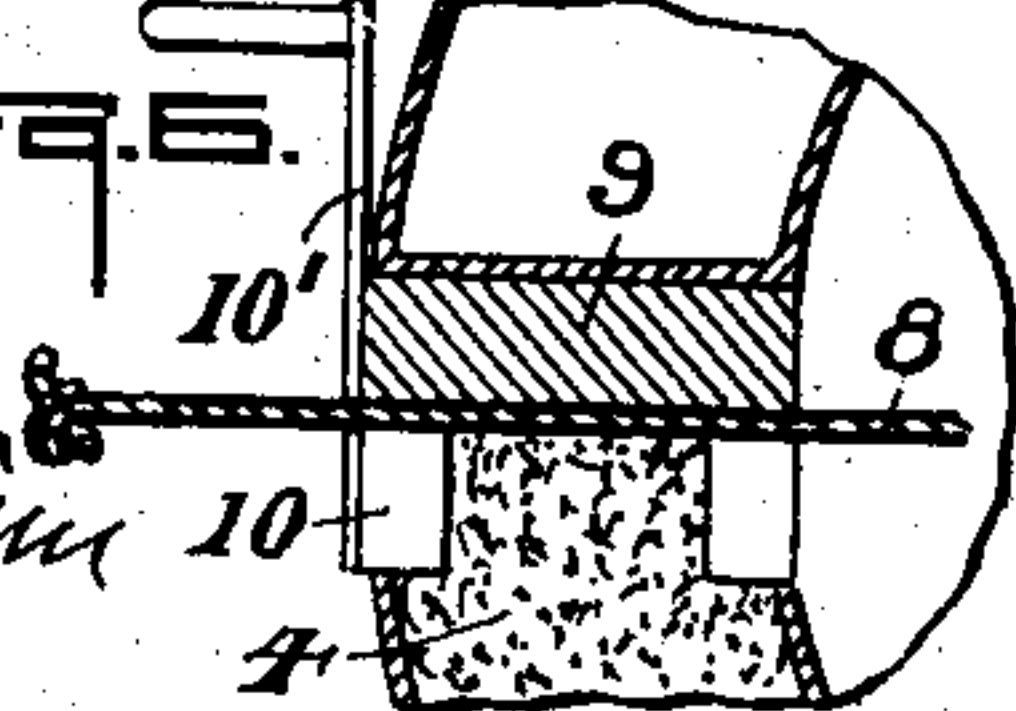
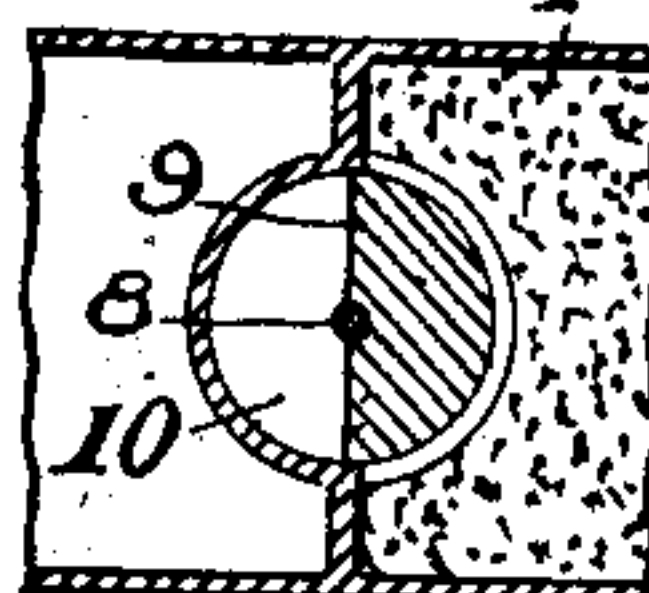


FIG. 7.



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ALBERT N. CRAWFORD, OF ALLEGHENY, PENNSYLVANIA.

CHALK-LINE HOLDER.

No. 833,920.

Specification of Letters Patent.

Patented Oct. 23, 1906.

Application filed July 25, 1906. Serial No. 327,612.

To all whom it may concern:

Be it known that I, ALBERT N. CRAWFORD, a citizen of the United States, residing at Allegheny, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Chalk-Line Holders; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to a new and useful improvement in chalk-line holders; and it consists in the novel arrangement of parts, whereby the line may be brought in contact with a body of chalk, or the supply of chalk may be cut off and the line used for other means, thus serving a double purpose.

In the accompanying drawings, forming a part of this specification, I have shown several detailed views of my invention.

Figure 1 is a plan sectional view, partly broken away. Fig. 2 is a cross-sectional view of the holder. Fig. 3 is a longitudinal section of a slide-valve in closed position. Fig. 4 is a similar view of said valve open. Fig. 5 is a sectional view of said valve on line 5 5 of Fig. 4. Fig. 6 shows a modified form of rocker-valve open, and Fig. 7 the same in closed position.

Throughout the drawings the numeral 1 indicates a receptacle or casing, preferably made in circular form, or it may be constructed in any suitable design, and inside of this casing, preferably in the center thereof, is arranged a drum 2, having connected therewith at some convenient and suitable point a spiral spring 3 for the purpose hereinafter described. Arranged in the periphery of the casing is a circular compartment 4, extending almost around the entire casing and separated from the center or drum chamber by a partition-wall 5. This compartment 4 is intended to hold the powdered chalk that I propose using in connection with my device, and as a means for keeping this chalk pushed forward to the feeding-point I have provided a spiral-spring follower 6, which is located at one end of the compartment 4.

Arranged through the casing and compartment 4 is a valve 7, through which passes the end of a line 8, ordinarily wound on the drum 2. The preferred form of feed-regulator

which I intend using in my device consists of a cylindrical rocker-valve 9, having a cut-away portion 10 in the side thereof exposing the line 8, which passes through the center thereof. This valve can be operated by a crank attachment 10' or any other suitable means.

The modified form of valve shown consists of an outer shell 11, having a suitable opening 12 therethrough presented to the body of chalk. Operatively seated in this shell is a slide 13, through the center of which passes the line 8 and in which is an opening 13', adapted to register with the opening 12 through the outer shell, and thus expose the line to the powdered chalk when depressed. A spring 14, bearing against a flange formed at the inner end of the slide 13, will automatically close the valve when pressure is released on said slide 13.

A filling-opening 15 is provided through the casing, controlled by a suitable slide or door arrangement, and as the follower-spring 6 will ordinarily be over this opening I have provided a means for withdrawing or depressing the same when it becomes necessary to refill the compartment. This means consists of a pulling wire or string 16, passing through the spiral spring 6, one end thereof being connected with the pushing-block 17, secured to the forward end of said spring, and the other end of said pulling-wire being connected with a spool or drum 18, operated by a suitable crank 19.

In the operation of my device the compartment 4 is filled with powdered chalk through the opening 15, the follower-spring 6 being pulled away from said opening during the filling process. If it is desired to chalk the line 8, the rocker-valve is turned so that the cut-away portion will be presented to the body of powdered chalk, and thus expose the line 8 to said chalk. By drawing on said line the same will be chalked along the length desired, and when a sufficient portion of said line is thus chalked the rocker-valve is reversed and the supply of chalk shut off from contact with the line. Upon releasing the end of said line the spring 3, which has been depressed during the unreeling, will expand and reverse the drum 2, thus automatically winding up the line 8.

In the modified form of valve when it is desired to chalk the line the operator simply presses in on the slide 13, and when the opening formed in said slide registers with the

opening 12 the powdered chalk will be presented to the line and taken up by the same upon pulling out on the said line. As soon as a sufficient portion of the line has been
5 chalked pressure is released on the slide, and the spring 14 will expand and automatically close the slide-valve 13, and thus shut off the supply of chalk. By means of these two forms of valve arrangements the line may be
10 used for other purposes than for chalking; but it is ready for instant use as a chalk-line at the will of the operator by the methods above described.

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

1. In a device of the character described, a suitable casing having a spring-actuated drum located therein upon which is wound a
20 chalk-line; a chalk-compartment formed in said casing; a valve seated through said casing through which passes the chalk-line; said valve at will protecting said line from or exposing it to the body of chalk, as, and for, the
25 purpose set forth.

2. In a device of the character described, a suitable casing having a spring-actuated drum located therein, upon which is wound a chalk-line; a chalk-compartment formed in

said casing; a spring-follower seated at one
30 end of said compartment adapted to bear against the body of chalk; means for drawing said spring clear of the filling-opening; a valve seated through the casing through
35 which passes the line; said valve at will protecting said line from or exposing it to the body of chalk; as, and for, the purpose set forth.

3. In a device of the character described, a suitable casing having a spring-actuated
40 drum located therein, upon which is wound a chalk-line; a chalk-compartment formed in said casing; a spring-follower seated at one end of said compartment adapted to bear against the body of chalk; means for drawing
45 said spring clear of the filling-opening; a rocker-valve seated through the casing through which passes the line and having a cut-out portion formed therein for exposing
50 said line to the body of chalk; as, and for, the purpose set forth.

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

ALBERT N. CRAWFORD.

Witnesses:

BEATRICE FITZGERALD,
J. P. APPLEMAN.