

(Model.)

C. WING.  
Self Chalking Holder for Chalk Lines.

No. 239,009.

Patented March 15, 1881.

Fig. 1.

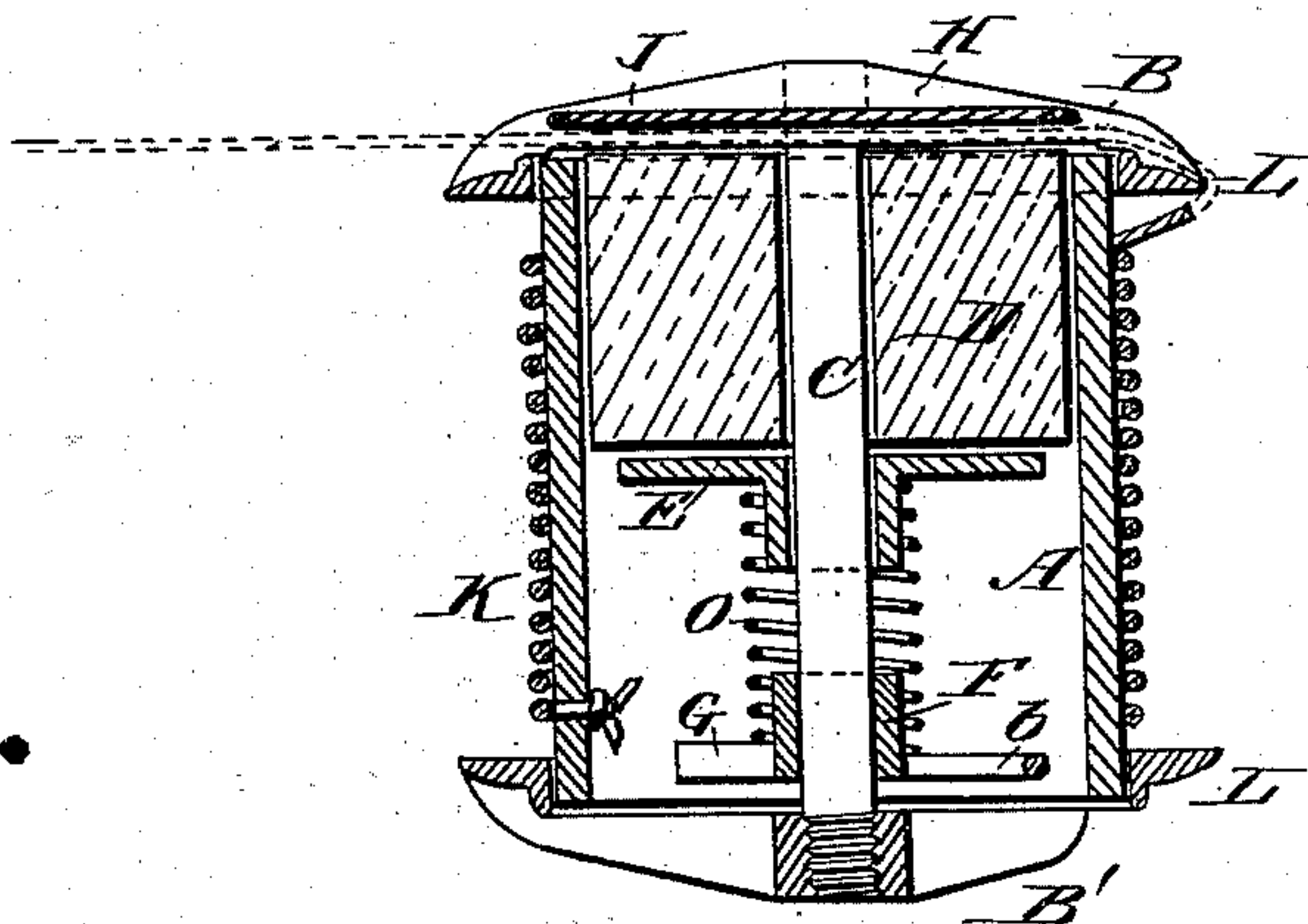


Fig. 2.

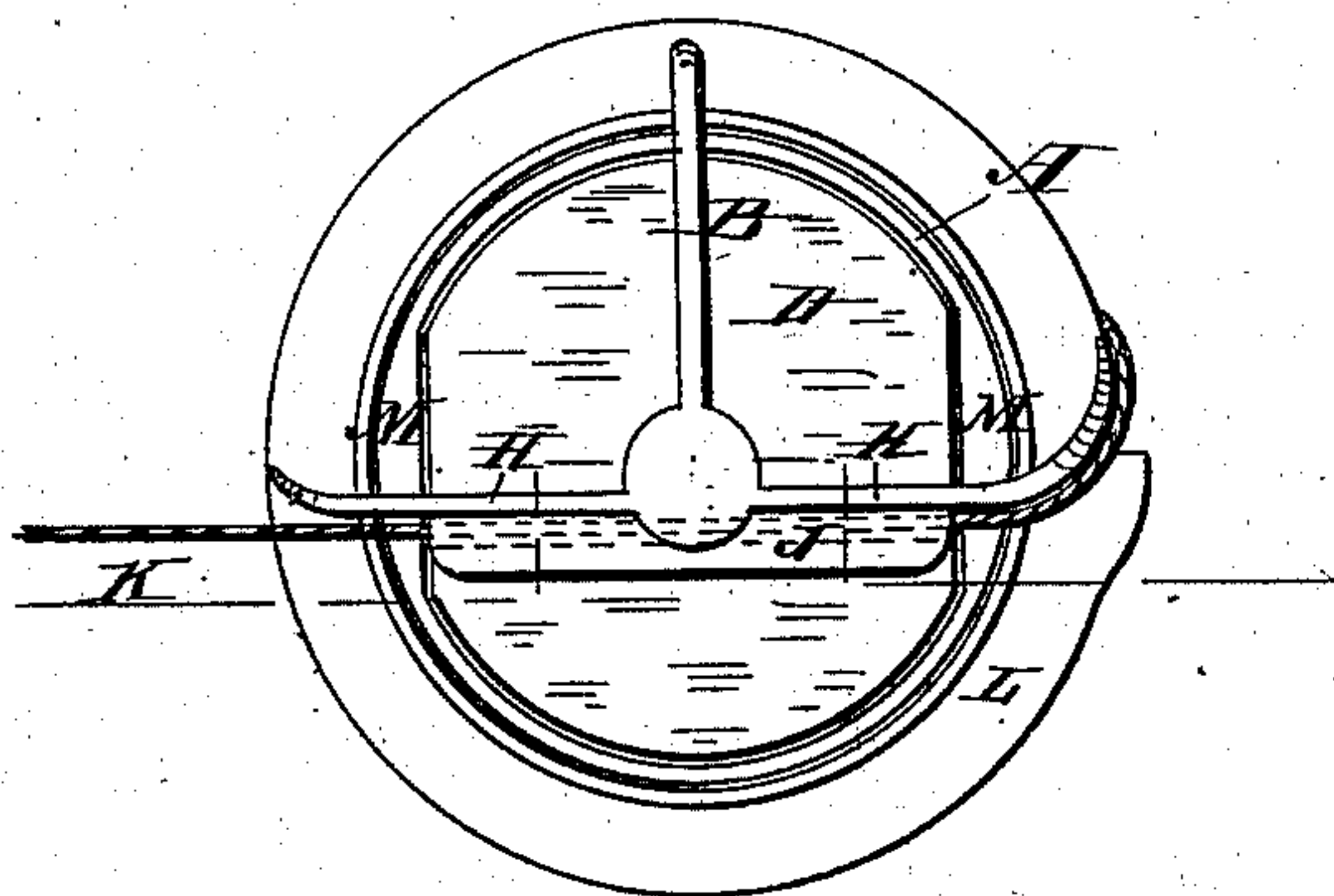


Fig. 3.

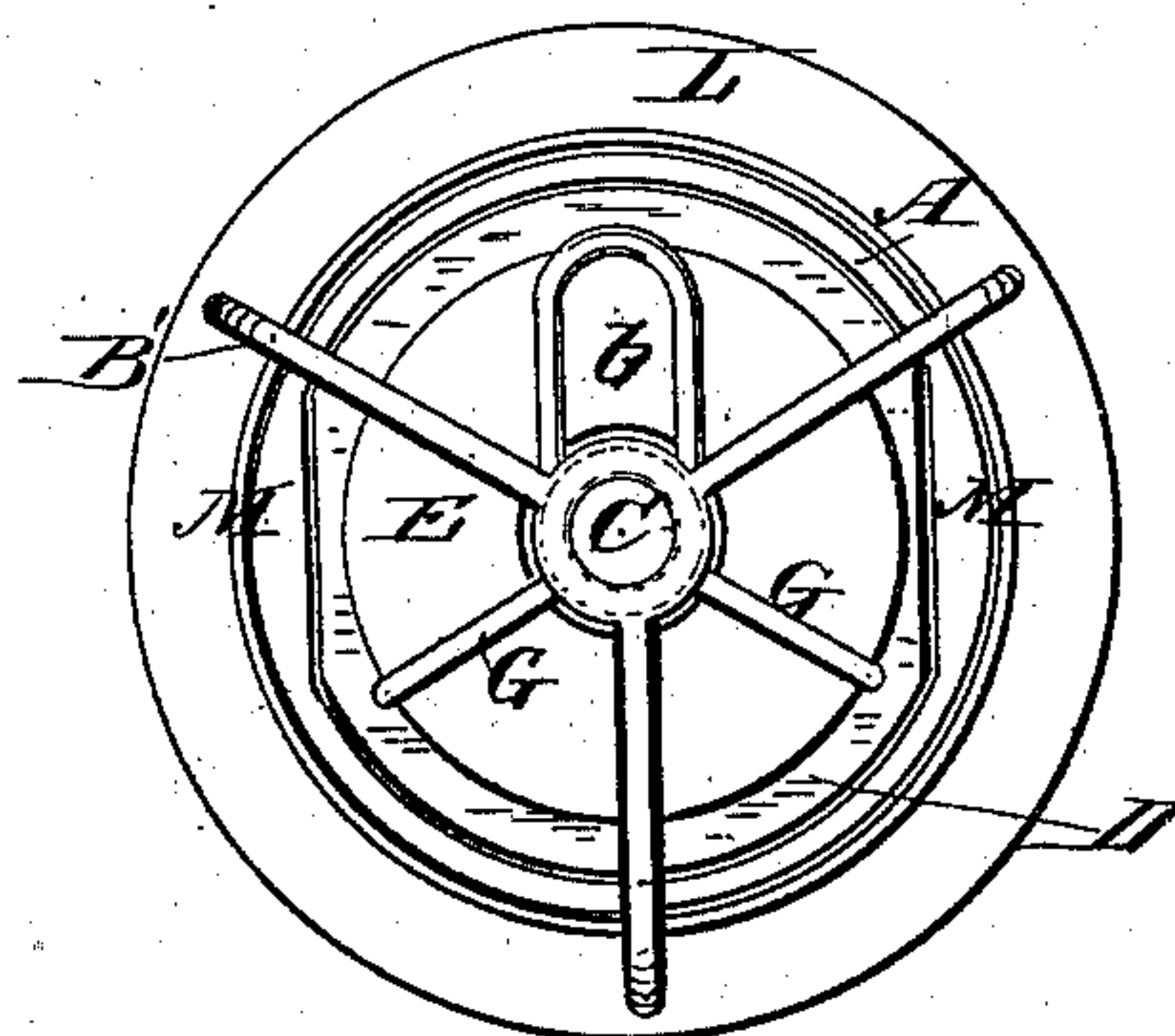
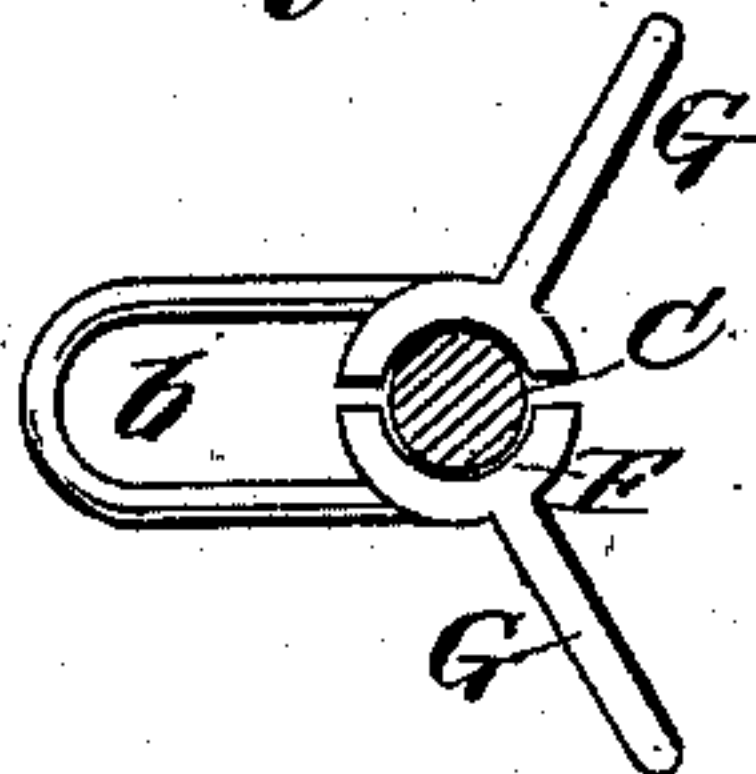


Fig. 4.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

CHAUNCEY WING, OF GREENFIELD, MASSACHUSETTS.

## SELF-CHALKING HOLDER FOR CHALK-LINES.

SPECIFICATION forming part of Letters Patent No. 239,009, dated March 15, 1881.

Application filed July 13, 1880. (Model.)

*To all whom it may concern:*

Be it known that I, CHAUNCEY WING, of Greenfield, in the county of Franklin and State of Massachusetts, have invented a new and Improved Self-Chalking Holder for Chalk-Lines, of which the following is a specification.

The object of my invention is to provide a new and improved self-chalking holder for chalk-lines which is simple in construction and use, chalking the line perfectly, and does not waste or break the chalk.

The invention consists in a tubular roller or barrel, upon which the string or line is wound, the barrel being provided with two loose end pieces united by a spindle, upon which a cylindrical piece of chalk is loosely mounted and pressed against and into one of the end pieces by an adjustable spring in such a manner that the end surface of the piece of chalk is pressed against the string or line, which passes through a recess formed by the end surface of the piece of chalk, and a laterally-projecting flange of the corresponding end piece.

In the accompanying drawings, Figure 1 is a cross-sectional elevation of my improved self-chalking chalk-line holder. Figs. 2 and 3 are the two end elevations of the same. Fig. 4 is a plan view of the clamp for adjusting the spring acting upon the piece of chalk.

Similar letters of reference indicate corresponding parts.

A hollow cylinder, A, is provided with the end pieces or heads, B B', into which the ends of the cylinder pass, as shown in Fig. 1, which end pieces are held together by a spindle, C, rigidly attached to one of the end pieces—for instance B—and screwed into the other, the cylinder A being held loosely between the two end pieces.

A centrally-perforated piece of chalk, D, fitting into the cylinder A, is loosely mounted on the spindle C and pressed against one of the end pieces—for instance B—by a spring, O, held between a washer-plate, E, directly below the chalk, and adjustable clamp F, mounted on the spindle C.

The clamp F consists of two semi-cylindrical pieces, obtained by sawing a short tube longitudinally in two parts, united by a U-shaped spring-piece, b, attached to each semi-cylindrical part. The clamp is further provided with two lugs, G, for conveniently turning or moving the same.

The end piece, B, is provided with a transverse bar or ridge, H, terminating in curves, and provided with a laterally-projecting flange, J. The cord K is attached to the cylinder A, and wound upon the same, and is prevented from slipping off by the annular flanges L L of the end pieces.

The cylinder A is provided with one or more straight parts, M, ridges or studs on the inner side, to cause the chalk D to rotate.

The device is used as follows: The piece of chalk D is first secured on the spindle C. The washer-plate E is then mounted on the spindle likewise, and is pressed against the lower surface of the chalk by the spring O, which is adjusted to a certain pressure by the clamp F, and finally the end piece B is screwed to the spindle, and the device is ready for use. The line or cord K is passed through the recess formed by the upper surface of the piece of chalk D and by the laterally-projecting flange J. The device is held between the thumb and fingers of the left hand, and if the cord K is drawn so as to unwind from the cylinder it must pass through the groove formed below the flange J; and as the piece of chalk D, with which the cord is in contact, is continually being rotated as the cylinder containing it is rotated by the unwinding of the cord, it chalks the line or cord.

The within-described device possesses the advantage that none of the chalk is wasted or broken, and the inconveniences caused by continual mislaying of the chalk are avoided.

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

1. The combination of the loose cylinder A, having ridges M, and the end pieces, B B', connected by, and one of them screwing on, the spindle C, with an elastic support for the chalk, substantially as described.

2. The combination, with the washer E and spring O, of the two semi-cylindrical pieces and a U-shaped spring-piece, b, attached to each half-cylinder, as and for the purpose specified.

CHAUNCEY WING.

Witnesses:

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