

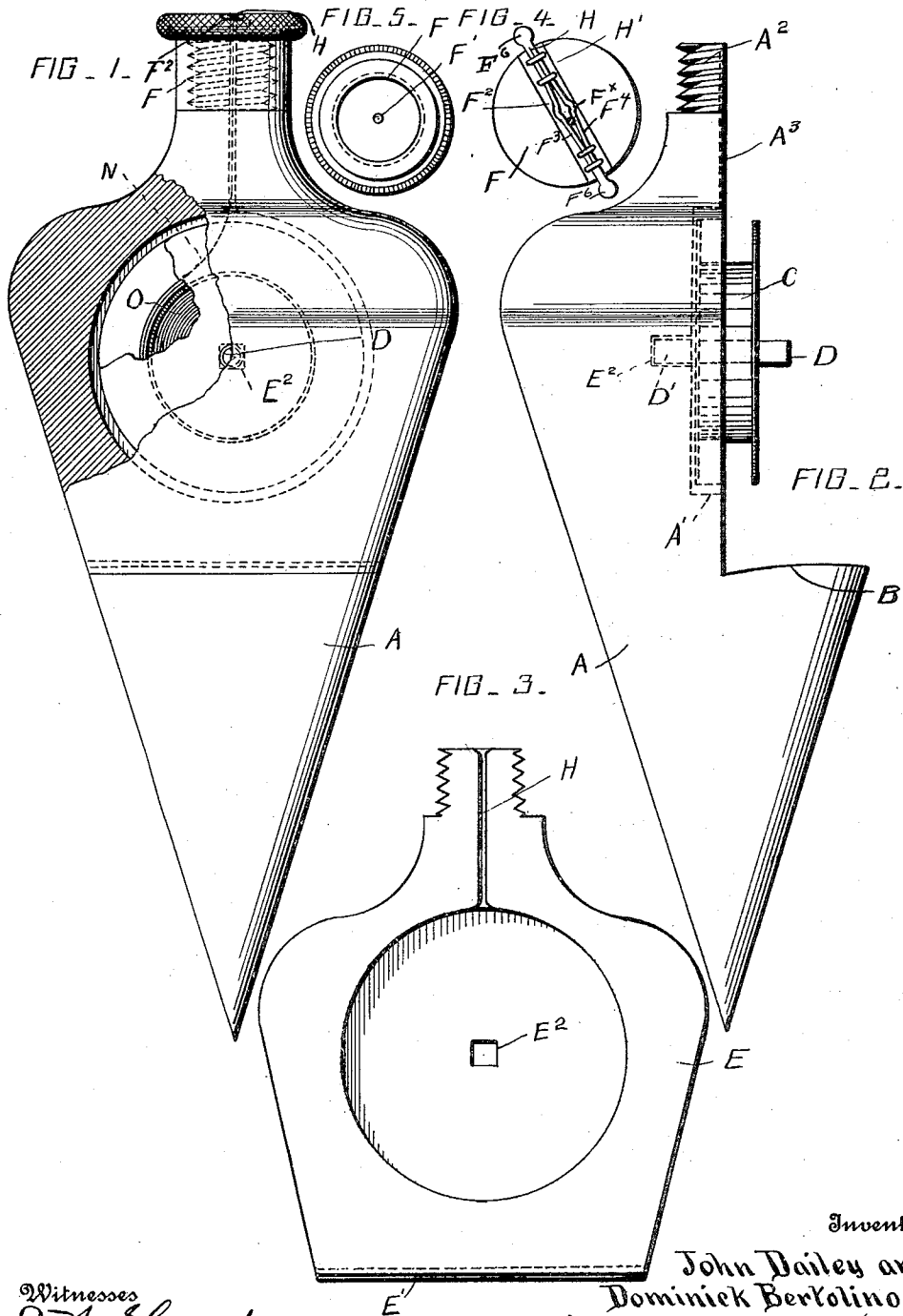
J. DAILEY & D. BERTOLINO.

PLUMB BOB.

APPLICATION FILED JUNE 28, 1913.

1,124,595.

Patented Jan. 12, 1915.



Witnesses  
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# UNITED STATES PATENT OFFICE.

JOHN DAILEY AND DOMINICK BERTOLINO, OF HEPZIBAH, WEST VIRGINIA.

PLUMB-BOB.

1,124,595.

Specification of Letters Patent.

Patented Jan. 12, 1915.

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*To all whom it may concern:*

Be it known that we, JOHN DAILEY and DOMINICK BERTOLINO, citizen of the United States and subject of the King of Italy, respectively, residing at Hepzibah, in the county of Harrison and State of West Virginia, have invented certain new and useful Improvements in Plumb-Bobs; and we do hereby 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 letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in plumb bobs and comprises a simple and efficient device of this nature having various details of construction and combinations and arrangements of parts which will be hereinafter fully described, shown in the accompanying drawings and then specifically defined in the appended claims.

Our invention is illustrated in the accompanying drawings, in which:—

Figure 1 is a side elevation of a plumb bob made in accordance with our invention, parts being broken away to show the reel. Fig. 2 is a side elevation of the bob, one portion being removed. Fig. 3 is a sectional view of a part of the bob removed, and Fig. 4 is a top plan view of a cap which engages the upper threaded ends of the sections of the bob, and Fig. 5 is a bottom plan view of the cap.

Reference now being had to the details of the drawings by letter, A designates one section of the bob which is cut away upon one side forming a convexed shoulder B. The section A is recessed as at A' for the reception of one-half of the spring-pressed winding reel C which is provided with a central circular-outlined aperture adapted to receive the shaft D, the ends of which are square and one end engages an angular outlined recess D' formed within the face of the section A. The upper end of the section A is contracted and threaded as at A<sup>2</sup> and is provided upon its flat face with a central longitudinal groove A<sup>3</sup>. The section E of the bob has its lower end E' concaved and adapted to conform to the convexed shoulder B upon which it fits, while its inner face is flat and adapted to contact with the flat face of the bob section A. Said section

It has its upper end contracted and threaded and provided upon its flat face with a central longitudinal groove H. The section E is recessed upon its inner flat face for the reception of half of the reel C and has an angular-outlined aperture E<sup>2</sup> for the reception of one end of the spindle or shaft D.

A cap F, interiorly threaded and having a milled circumference, is adapted to fit over the upper threaded ends of the sections A and E. Said cap F is provided with a central aperture F' for the reception of the cord N which is guided in the grooves A<sup>3</sup> and H and which is secured to and adapted to wind about the reel. Said cap has a transverse groove F<sup>2</sup> formed in the top thereof in which a cord retaining member H rests and which is formed of a piece of resilient material with two parts yieldingly in contact with each other and each provided with a semi-circular offset F<sup>x</sup> which together form an eye through which the cord N passes. Eyes mounted in said groove receive said member H, which is allowed to move longitudinally therethrough, while the heads F<sup>6</sup> serve as handles whereby the member H may be moved back and forth. A coiled spring O is fastened at one end to said shaft or spindle D and at its other end to the reel and forms means whereby, when the cord is pulled out or unwound, the spring will be put under tension, serving to rewind the cord when the latter is released and making the same a self-winding device. When it is desired to hold the cord in an adjusted position, the operator by moving the member H in one direction or the other, longitudinally, may cause the two yielding parts F<sup>2</sup> and F<sup>4</sup> to be forced apart and prevent the offset portions F<sup>x</sup> coming in contact with the cord. As the groove is slightly wider than the said member H, the parts F<sup>2</sup> and F<sup>3</sup> thereof are allowed to separate or move from each other a slight distance and, being of a resilient material, will frictionally engage and hold the cord.

From the foregoing, it will be noted that, by the provision of a bob made in accordance with our invention, the sections will be securely held together and the cord which is self-winding may be held from slipping and in different positions by means of the attachments to the cap.

What we claim to be new is:—

1. A plumb bob comprising a body portion, a reel mounted within the body portion,

- an apertured cap fitted to one end of the body portion and through which a cord, designed to wind about the reel, passes, a member mounted upon the cap and having two resilient portions which are designed to frictionally engage the cord and hold the same in an adjusted position, and means for guiding said member and holding the same in clamping relation with said cord.
2. A plumb bob comprising a body portion made up of two sections, recessed upon their inner faces, a spring-actuated reel journaled within said recesses, an apertured cap fitted over the upper ends of the sections, a cord adapted to be wound about the reel, the adjacent faces of the sections being grooved to receive said cord which passes through the aperture in the cap, the outer face of said cap having a transverse groove therein, a cord holding device having resilient clamping parts mounted to move longitudinally in said groove, and means for holding the resilient member frictionally in contact with the cord as said member is moved longitudinally.
- In testimony whereof we hereunto affix our signatures in presence of two witnesses.
- JOHN DAILEY.  
DOMINICK BERTOLINO.
- Witnesses:  
J. L. HOWARD,  
H. C. COLLINS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."