No. 831,775. PATENTED SEPT. 25, 1906.

H. McC. CURRY.

PLUMB BOB.

APPLICATION FILED JAN. 26, 1906.

Fig. 1.

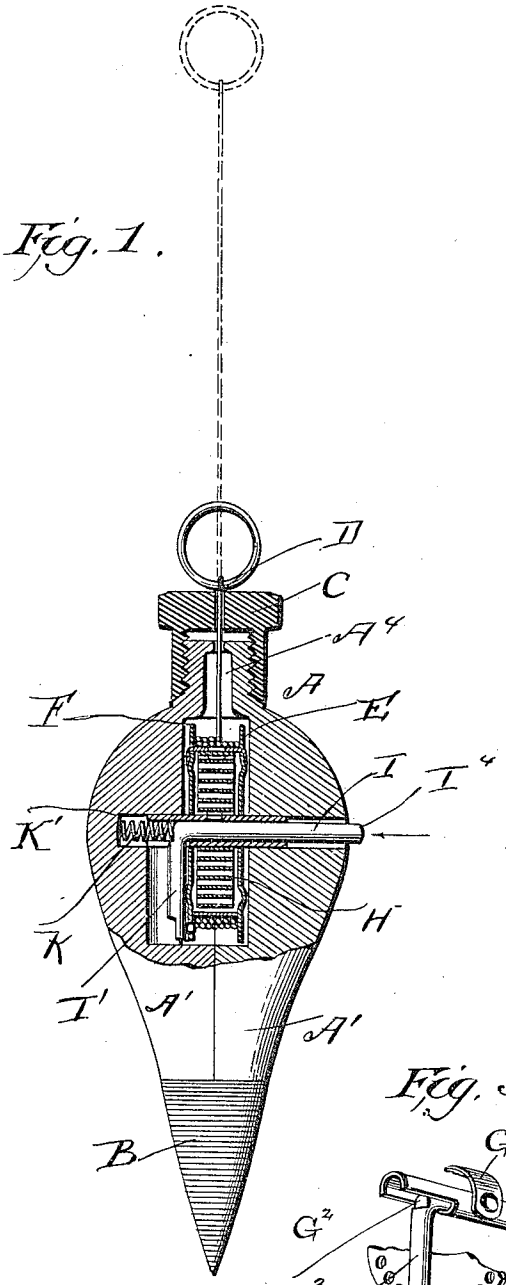


Fig. 2.

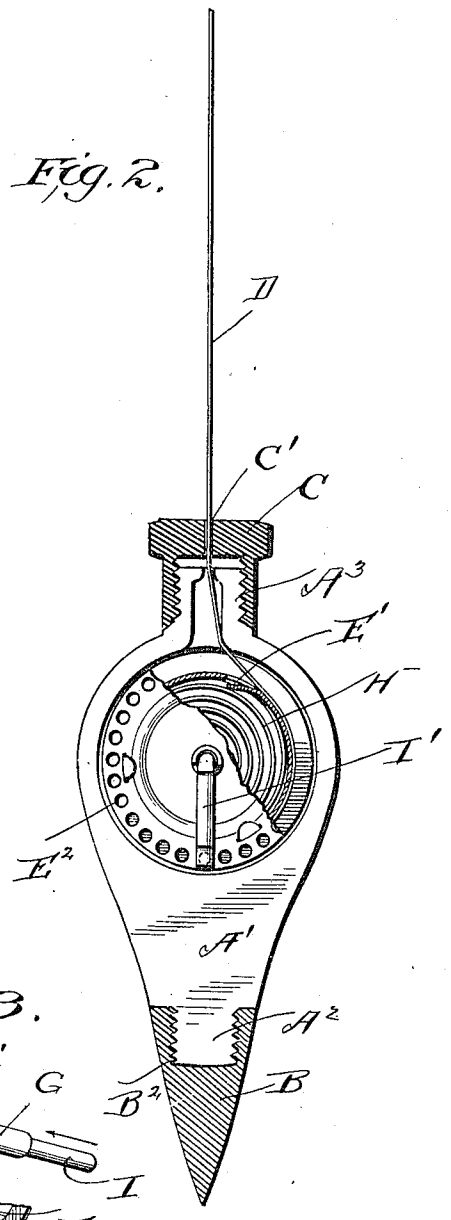
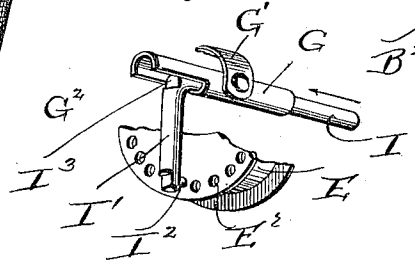


Fig. 3.



Witnesses

Wm. L. Saidee.

E. B. McBath

Inventor:

H. M. Curry,

by Amand Brock

Attorneys.

UNITED STATES PATENT OFFICE.

HILL McCLELLAND CURRY, OF CALIFORNIA, PENNSYLVANIA.

PLUMB-BOB.

No. 831,775. Specification of Letters Patent. Patented Sept. 25, 1906.

Application filed January 26, 1906. Serial No. 298,054.

To all whom it may concern:

Be it known that I, HILL MCCLELLAND CURRY, a citizen of the United States, residing at California, in the county of Washington and State of Pennsylvania, have invented a new and useful Improvement in Plumb-Bobs, of which the following is a specification.

This invention relates generally to plumb-bobs, and more particularly to certain improvements upon the plumb-bob patented to me June 10, 1902, No. 702,288.

The object of my present invention is to provide certain improvements in the mechanism for reeling the suspending-cord and whereby a cheaper, simpler, and more durable construction is provided; and with this object in view my invention consists in the novel features of construction hereinafter fully described, and pointed out in the claims.

In the drawings forming a part of this specification, Figure 1 is a sectional elevation taken transversely through the plumb-bob, and Fig. 2 is a sectional elevation taken longitudinally through the plumb-bob. Fig. 3 is a detail perspective view.

In constructing a plumb-bob in accordance with my invention I make the body A in two longitudinal sections A′, the opposing faces being flat and smooth, and at their lower ends they are reduced and threaded, as shown at A^2, upon which is screwed the point or tip B, said point or tip being provided with a threaded recess B^2, into which the reduced and threaded ends A^2 screw, it being understood that when the reduced ends A^2 are placed together they produce a complete continuous screw. The sections are also provided with an upwardly-projecting externally-threaded neck portion A^3, upon which the threaded cap or thimble C is screwed, said cap or thimble having a central aperture C′, through which the suspending-cord D passes, said cord D passing through the passage-way A^4, produced in the neck portion of the plumb-bob, and is connected to the reel E, which is located in a circular chamber F, produced in the body of the plumb-bob, said reel E turning upon a tubular shaft G, arranged centrally with reference to the circular chamber F and fixed within the plumb-bob sections. A convolute spring H is arranged within the reel, the outer end of said spring being connected to a tongue E′, punched from the reel, while the inner end is connected to a finger G′, attached to the tubular shaft G, the purpose of said spring being to cause the reel to revolve for the purpose of winding the cord D thereon whenever the reel is released so as to permit said action.

A pin I is arranged in the tubular shaft G, the inner end of said pin being bent downwardly at a right angle, as shown at I′, and carries a stud I^2 at its extreme lower end, said stud I^2 being adapted to engage one of a series of openings E^2, produced in the adjacent face of the reel E, and for the purpose of normally holding the stud I^2 in engagement with the reel I employ a coil-spring K, seated in a recess K′, which communicates with the circular chamber, the end of said spring bearing against the flat shoulder I^3, produced at the angle or bend of the pin, and it will be noted that the lower side of the tubular shaft is cut away, as shown at G^2, in order to permit this back-and-forth movement of the angular pin I. The outer end I^4 of the pin projects through the plumb-bob body and extends outwardly a sufficient distance to provide a push-knob for the purpose of actuating the pin when it is desired to wind up the cord D. When it is desired to use the plumb-bob, the cord D is pulled out through the thimble C, and in doing so the reel is caused to rotate, so that tension is applied to the spring contained within said reel, and when it is desired to wind the cord upon the reel the pin I is pushed inwardly, and this forces the depending end I′ inwardly and withdraws the stud I^2 from the aperture E^2, and the inner reel is then free to turn upon the tubular shaft, and in so doing the cord is drawn into the body of the plumb-bob and wound upon the reel. As soon as pressure is removed from the pin the spring K forces it into such position that the lug I^2 will engage the apertured side of the reel.

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

1. A plumb-bob consisting of a body composed of two longitudinal sections united at their upper and lower ends, a tubular shaft arranged in the body, a spring-actuated reel turning upon said body and a pin arranged within the tubular shaft and having its inner end bent downwardly and adapted for engagement with one side of the reel together with means for normally holding said end in engagement with the reel, as set forth.

2. A plumb-bob comprising a body portion consisting of two longitudinal sections united at their upper and lower ends, a tubu-

lar shaft arranged in the plumb-bob body, a reel upon which the cord is adapted to be wound, said reel containing a spring one end of which is connected to the reel and the other end to the tubular shaft, one side of the reel having a plurality of openings produced therein, a pin arranged in the tubular shaft the inner end of which is bent downwardly and provided with a stud adapted to engage the perforated side of the reel, a spring contained within the plumb-bob body and adapted to bear against the pin for the purpose of projecting the outer end beyond the surface of the plumb-bob, as set forth.

HILL McCLELLAND CURRY.

Witnesses:

RICHARD HAWTHORNE,

GEORGE C. DENNEY.