A. ROGERS.

PLUMB BOB SUPPORT.

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1,141,977.

Patented June 8, 1915.

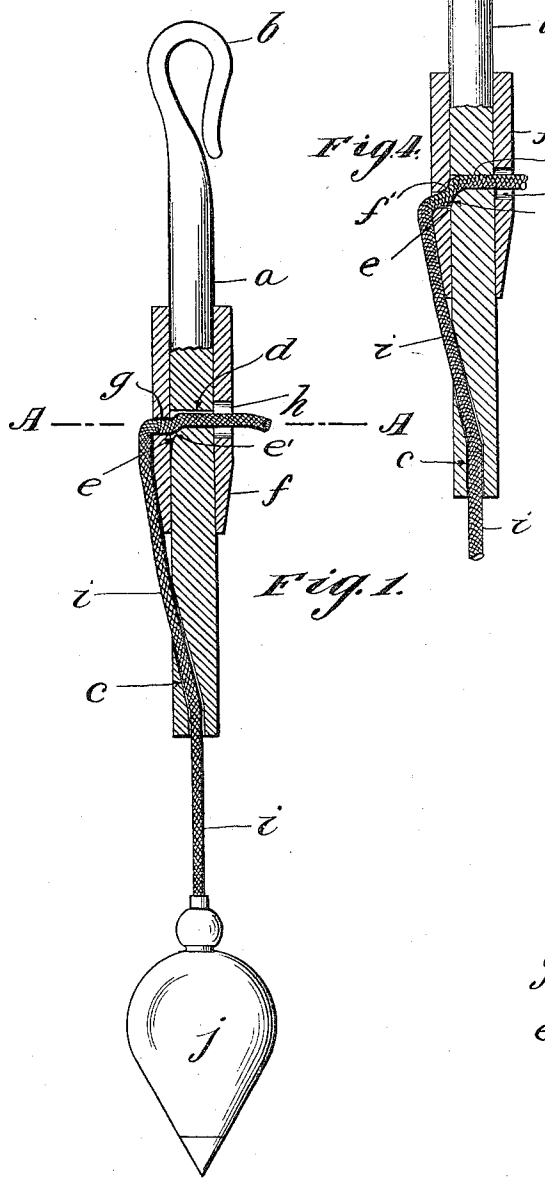


Fig. 1.

Fig. 4.

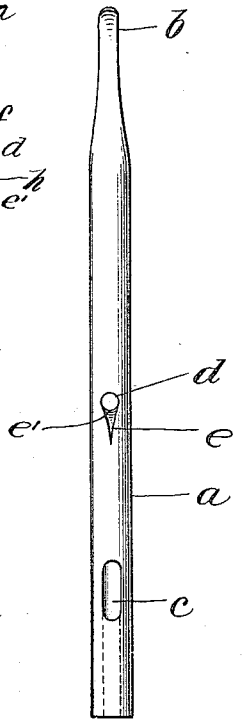


Fig. 2.

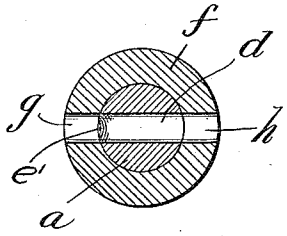


Fig. 3.

WITNESSES

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UNITED STATES PATENT OFFICE.

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PLUMB-BOB SUPPORT.

1,141,977. Specification of Letters Patent. Patented June 8, 1915.

Application filed March 14, 1912. Serial No. 683,851.

To all whom it may concern:

Be it known that I, ALSON ROGERS, a citizen of the United States, residing at Warren, in the county of Warren and State of Pennsylvania, have invented certain new and useful Improvements in Plumb-Bob Supports, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to improvements in supports for holding plumb-bobs and particularly to improvements in that portion of such devices which is intended to hold the plumb-bob cord in adjusted position; and an object of this invention is to provide a device of the character just referred to which will be simple in construction, comparatively cheap in manufacture and most efficient and durable in use.

Another object of this invention is to provide a device of the type just described which will grip the cord firmly without cutting the same.

In the drawings illustrating the principle of this invention and the best mode now known to me of applying that principle, Figure 1 is an elevation, partly in section, of my new plumb-bob support; Fig. 2 is an elevation of the rod with the sleeve shown removed; and Fig. 3 is a section on the line A—A of Fig. 1. And Fig. 4 shows a modified form of my invention.

The spindle or rod *a* is provided at its upper end with a hook *b;* its opposite or lower end is formed with an inwardly and downwardly inclined passage *c;* and its middle portion is formed with a transverse passage *d* and, just below the outlet end of the latter, with a lengthwise-extending recess *e* which communicates at its upper end with the hole *d* and the lateral walls of which taper or converge downwardly so that the recess is V-shaped (Fig. 2). Slidably mounted upon the rod *a* is a sleeve *f* which is formed with a hole *g* adapted to register with the outlet end of the transverse passage *d;* and diametrically opposite the hole *g* there is formed in the sleeve *f* an elongated opening or slot *h*.

To the lower end of the plumb-bob cord *i* is attached the plumb-bob *j;* and the cord *i* is passed upwardly through the channel *c* and then through the hole *g*, the passage *d* and the slot *h*. The hole *g* and the passage *d* are of substantially the same diameter as the cord *i*. The weight of the plumb-bob pulls the sleeve *f* downwardly and squeezes or pinches the cord *i* between the sleeve *f* and the rod *a*. The elongated opening or slot *h* permits the free downward movement of the sleeve *f*, which movement is not interfered with by that portion of the cord *i* which extends through the slot *h*. As the sleeve slides downwardly, the cord is pressed into the V-shaped recess *e* the bottom wall of which is curved as shown at *e'*, Fig. 1. The provision of the recess *e* and its curved wall *e'* obviates the cutting of the cord which experience has taught will occur, if a sharp corner is formed at this point; and, again, where such cutting does occur in the first use of the device, the opposed walls of the sleeve and rod at this point become worn to such an extent that the device will no longer hold the cord *i* in its adjusted position. In Fig. 4 the sleeve *f* is also formed with a recess *f'* above the hole *g*. It will be obvious, however, that if desired neither one of the recesses *e*, *f'*, shown in Fig. 4 may be dispensed with. The recess *f'* in the sleeve should be formed above the hole *g*, while the recess *e* should be formed below the outlet end of the transverse passage *d*.

I claim:

1. A plumb-bob support including a suspension-rod formed with a transverse passage and with a lengthwise-extending recess at one end thereof and with a second passage below said transverse passage; a sleeve mounted free to slide lengthwise along said suspension-rod and formed with perforations which are arranged to register with the ends of said transverse passage; and a plumb-bob suspending-cord which passes through the latter and said perforations and then through said second passage and which is squeezed into said recess automatically, when said sleeve is displaced downwardly along said suspension-rod by a pull exerted through said cord.

2. A plumb-bob support including a suspension member formed with a transverse passage and with a second passage below the same; a sleeve member mounted free to slide lengthwise along said suspension member and formed with perforations which are arranged to register with the ends of said transverse passage; and a plumb-bob suspending-cord which passes through the latter and said perforations then through said second passage; one of said members being formed near one end of said transverse pas-

sage with a lengthwise-extending recess into which said cord is squeezed, when said sleeve member is displaced downwardly along said suspension member automatically by a pull exerted through said cord.

3. A plumb-bob support including a suspension member formed with a transverse passage and with a second passage located below the same; a sleeve member mounted free to slide lengthwise along said suspension member and formed with perforations which are arranged to register with the ends of said transverse passage; and a plumb-bob suspending-cord which passes through the latter and said perforations and is then slidably connected with said suspension member by passing through said second passage; one of said members being formed near one end of said transverse passage with a lengthwise-extending V-shaped recess into which said cord is squeezed, when said sleeve member is displaced downwardly along said suspension member automatically by a pull exerted through said cord.

4. A plumb-bob support including a suspension member formed with a transverse passage; a sleeve member mounted slidably on said suspension member and formed with perforations which are arranged to register with the ends of said transverse passage and one of which is elongated to form a slot; and a plumb-bob suspending cord which passes through said transverse passage and perforations, the elongated one of the latter permitting the sleeve to be displaced downwardly along said suspension rod and the other of said perforations and the transverse passage being of substantially the same diameter as the plumb-bob cord; one of said members being formed near one end of said transverse passage with a recess into which said cord is squeezed, when said sleeve member is displaced downwardly along said suspension member by the pull exerted by the force of gravity through said cord.

Signed at Warren, Pennsylvania, this twenty ninth day of February, A. D., 1912, in the presence of the two undersigned witnesses.

ALSON ROGERS.

Witnesses:
D. A. SMITH,
C. W. ROGERS.

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