

PATENT NEWS FOR PLUMB BOB COLLECTORS

WR Plumb bob collectors PATENT NEWS # 2007-07

French patent FR972955 BERTHET 1951 and

**American patents US30612 CHAPPELL 1860 and
US279316 AVERY 1883 and
US599178 WILLIAM 1898 and
US625181 MARTIN 1899**

The French patent FR972955 is for a
“**PLUMB LINE WITH MECHANISM OF INTERIOR AUTOMATIC
WINDING UP OF THE WIRE, FOR MASONS OR OTHER
EMPLOYMENT**”

RÉPUBLIQUE FRANÇAISE
MINISTÈRE
DE L'INDUSTRIE ET DU COMMERCE
SERVICE
de la PROPRIÉTÉ INDUSTRIELLE

BREVET D'INVENTION

Gr. 12. — Cl. 3.



N° 972.955

**Fil à plomb avec mécanisme d'enroulement automatique intérieur du fil, pour
maçons ou autres emplois.**

M. JOANNY BERTHET résidant en France (Loire).

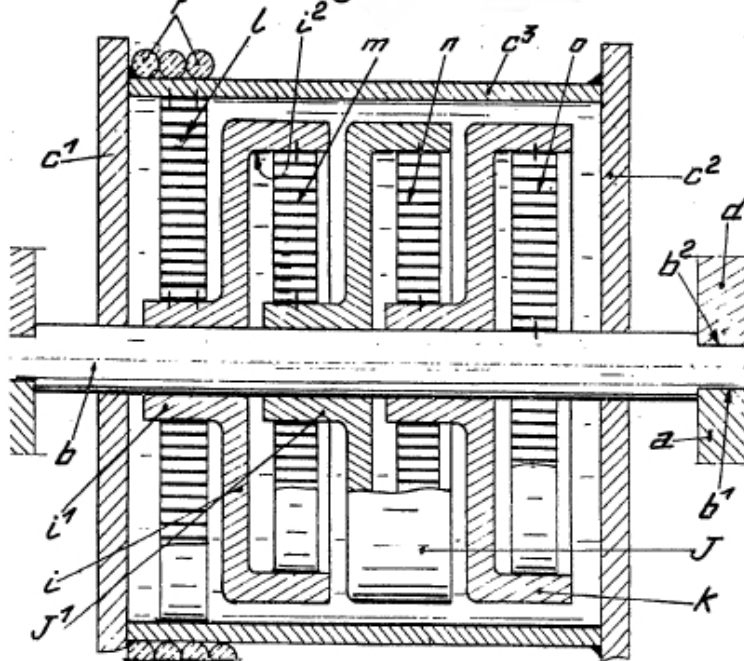
**Demandé le 2 octobre 1948, à 11 heures, à Saint-Étienne.
Délivré le 6 septembre 1950. — Publié le 6 février 1951.**

I will show this **French** patent from **1951** that I found recently
and **3 American** patents from **BEFORE 1900**

All of them use a **SPRING** (coil spring, leaf spring) for roll up the line.

PATENT NEWS FOR PLUMB BOB COLLECTORS

FR972955 Fig. 2 6 février 1951



N° 972.955

M. Berthet

Pl. unique

DESCRIPTION of patent FR972955
(translation by European Patent Office)
marked by WR

Plumb line with mechanism of **interior automatic winding up of the wire**, for masons or other employment.

Up to date exist various models of plumb lines; however **the latter do not allow an automatic rolling up of the wire after employment.**

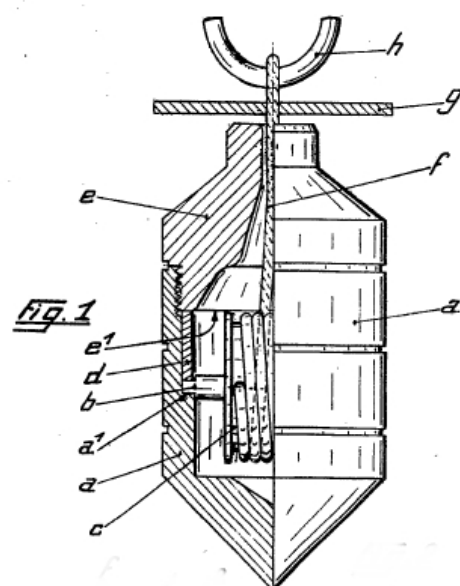
The mechanism of unfolding or of winding up of the wire is independent of the mass or bodies, which results in producing cumbersome apparatuses complicated, expensive and consequently not very practical for the user.

It is thus to obviate these disadvantages that it was conceived a plumb line, with mechanism of interior automatic rolling up of the wire and being the subject of this patent.

For fixing the object of the invention well, without however limiting it in the annexed drawing:

Figure 1 shows on a large scale, in an external half-sight and a half-sight out of cut, a plumb line carried out according to the invention (the wire being rolled up on the drum placed inside the body);

Figure 2 shows schematically on a large scale, and out of longitudinal section, the drum with automatic rolling up of the wire.



If anyone is not interested to get this information, please let me know and I will delete your name from MY MAILING LIST.

PATENT NEWS FOR PLUMB BOB COLLECTORS

This plumb line with mechanism of interior automatic rolling up for masons or other employment, comprises primarily: According to **figure 1**, the mass in body of cylindrical or different external form (according to the intended use), and hollowed out to constitute one - circular shoulder being used as support at the flat ends of the axis **B** containing the drum **C**.

The axis **B** is immobilized by a ring **D** being centered in the corresponding boring of the body has and which easily supports on the opposite flat parts **b2** of the axis **B**. The before mentioned ring having to be tight in its turn by the face of support **e1** of the hat **E** which is screwed internally by its part threaded in body **A**.

Thus realized, the **wire F** is made interdependent of the drum **C** by a means known to be rolled up on the before mentioned drum and to emerge outside of hat where it crosses the **square plates G**, the end of the wire **F** being fixed by an unspecified means on a ring of suspension **h**.

During the use of the plumb line, the body **A** or masse and by its fall the complete derailment of the wire **F** causes on the drum **C**, **after the use of the plumb line, by releasing the ring H the wire F is recalled and rolled up automatically on the tandem C by the action of its interior device describes below.**

Automatic device of rolling up of the wire on the drum **C** (according FIG. 2). Drum **C** which are free and which are centered on the axis **B** is made of two flasks **c1** and **c2**, braced and made interdependent, by a welded ring **c3** which is used outside to roll up the wire **F**.

WR: What are oil cakes???

Interior oil cakes in a variable number I, J, K, placed inside the drum **C** are centered and turned on the axis **H** to be **connected two to two by leaf springs rolled up in spiral L, M, N and O.**

The spring in spiral extreme **I** is centered and **fixed by its interior bit by rivets** (or other modes) **on hub I of oil cake I**. Its external bit being **fixed on ring C3** of the drum **C**.

Oil cake **I** is used of housing and fixing by its boring **i2** with the bit external of a second leaves spiral **m** which is centered and fixed on the corresponding hub **J** of the oil cake **J** corresponding.

This provision and **this assembly gradually of the springs in spiral can adapt on an unspecified number of oil cakes**, the last spring in spiral **O** being then **fixed by it's inside bit and directly on the axis B.**

Thus realized, during the unfolding of the wire **F**, by the fall of the body **A**, the drum **C** turns on the axis fixes **B** by tightening the spring in spiral **1**.

At this moment, and **continuously** the rotation of the drum **C**, oil cake **I** is involved in its turn in rotation in the same way to tighten the second spring in spiral **M**. This operation repeating itself successively to the last spring in spiral **O** which is fixed on the axis fixes **B**.

It is to be noticed that this provision **allows, by its independent springs, to a great length of wire**, and allows its automatic recall and its automatic rolling up, **can adapt** inside any body or mass whatever its external form.

Thus realized, one has a plumb line with mechanism of automatic rolling up, which is thus of a great utility for the user.

WR: This installation has NO BRAKE and nothing to FIX the line in a given position!!!! I don't believe that it works satisfactory. Did anyone see this plumb bob ??????

PATENT NEWS FOR PLUMB BOB COLLECTORS

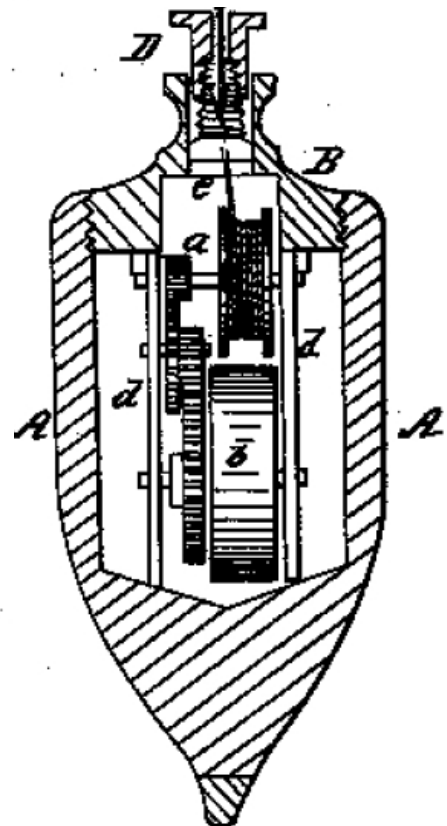
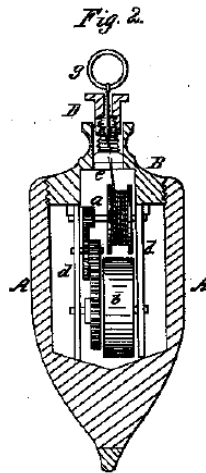
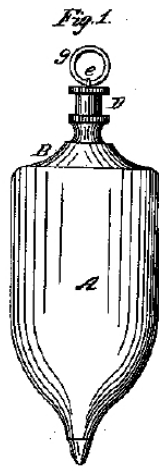
The American patents have spring and gear.

B. F. CHAPPELL.

Level.

No. 30,612.

Patented Nov. 13, 1860.



Having thus described my invention, I claim and desire to secure by Letters Patent as an improved article of manufacture—

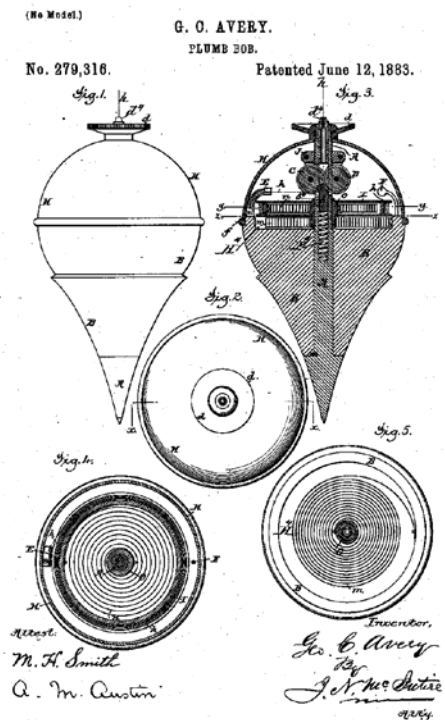
A plumb bob, provided with a train of wheels, spring and stop, and otherwise made as herein shown and described.

BENJ. F. CHAPPELL.

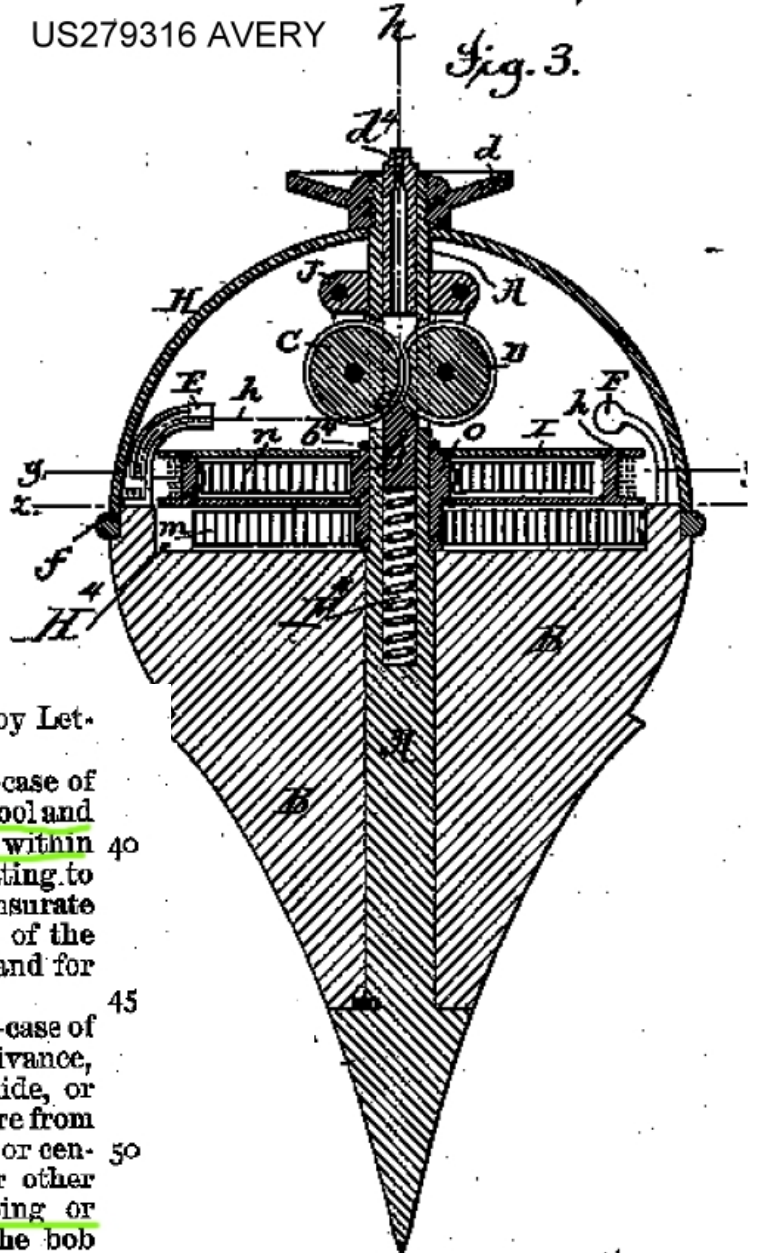
Witnesses:

F. A. ROCKWELL,
SOLOMON FANNING.

PATENT NEWS FOR PLUMB BOB COLLECTORS



Patented June 12, 1883.
US279316 AVERY



I claim as new, and desire to secure by Letters Patent, is—

1. In combination with the inclosing-case of a plumb-bob, a winding-up drum or spool and a series of actuating-springs arranged within and adjacent to said drum and operating to rotate said drum to an extent commensurate with the aggregate winding capacities of the series of springs, all substantially as and for the purposes specified.

2. In combination with the inclosing-case of a plumb-bob or other analogous contrivance, a spring-winding-up drum, a cord-guide, or other suitable means for guiding the cord from the periphery of the drum to the axial or central orifice of the case of the bob or other analogous contrivance, and a clamping or brake-like device arranged axially of the bob or other contrivance, and operating, as described, to clamp or hold the cord, substantially as described.

3. In combination with the body portion of a plumb-bob, an axially-arranged device, A, centrally bored out and containing within its bore a spiral spring, F^a, and a device, B^a, which forms both a cord-guide and a brake, and suitable means for winding up the cord or line of the bob, substantially in the manner described.

In testimony whereof I have hereunto set my hand this 19th day of March, 1883.

GEORGE C. AVERY.

delete your name from MY MAILING LIST.

PATENT NEWS FOR PLUMB BOB COLLECTORS

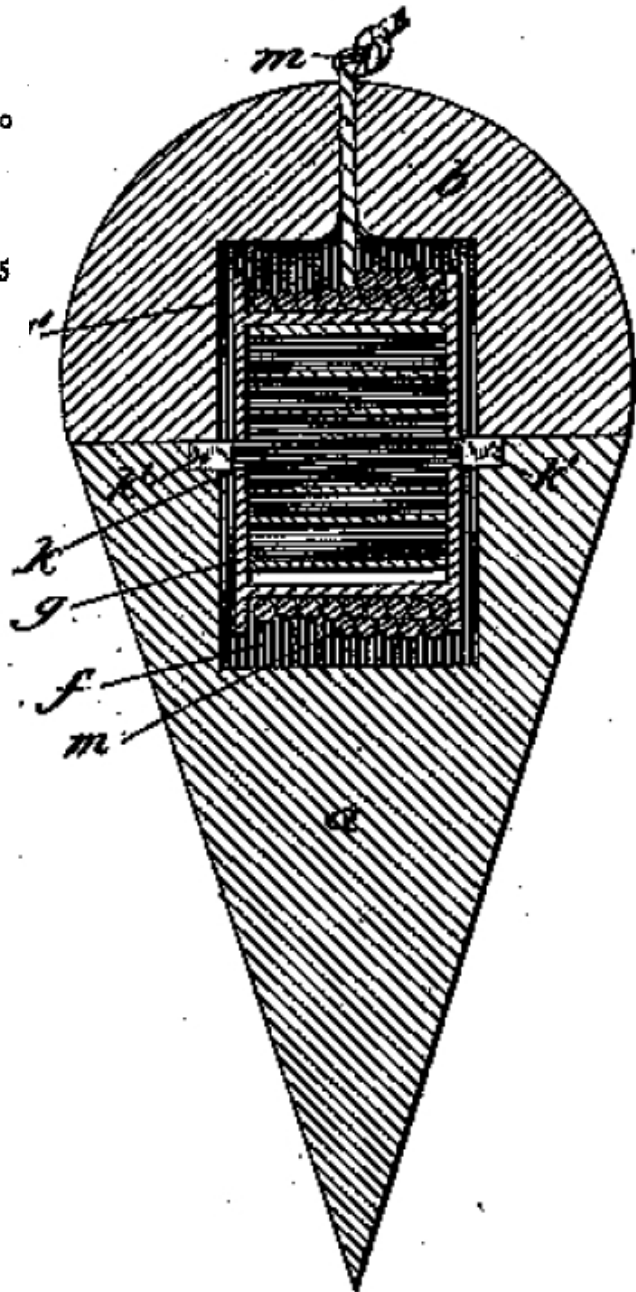
Having fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

A plumb-bob consisting of a cone and cap, said cone and cap each provided with a recess, said cap also provided with downwardly-projecting lugs, having screw-threaded apertures therein, said lugs engaging in recesses in the cone, a recess in the cone to receive a shaft provided with square ends, a drum mounted on said shaft, a coil-spring secured to the shaft and to the inner periphery of the drum, a line attached to and passing around said drum and passing out through an opening in the top of the cap, and carrying on the end suitable gripping means, and suitable means for securing the cap and cone together, substantially as shown and described.

In testimony whereof we affix our signatures in presence of two witnesses.

JAMES GWILLIAM.
 WILLIAM JARVIS.

Fig. 2.

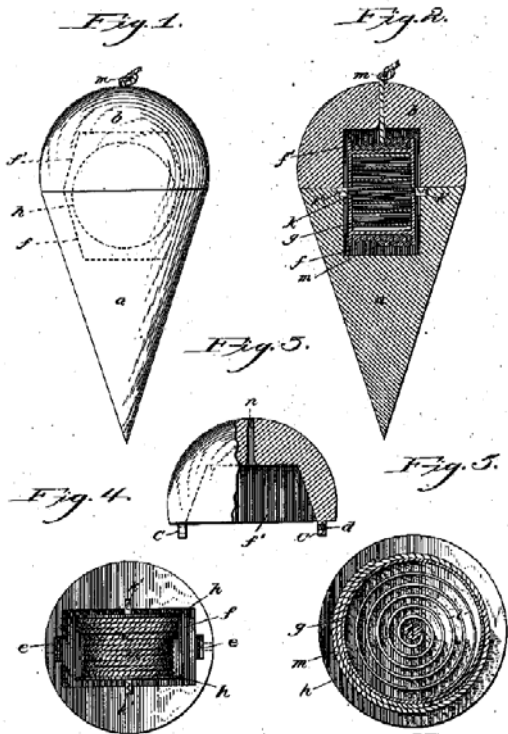


(No Model.)

J. GWILLIAM & W. JARVIS.
 SELF WINDING PLUMB BOB.

No. 599,178.

Patented Feb. 15, 1898.



Witnesses:
J. P. ...
W. ...

Inventors:
James G. Williams
William Jarvis
 By *...* Attorney.

If :

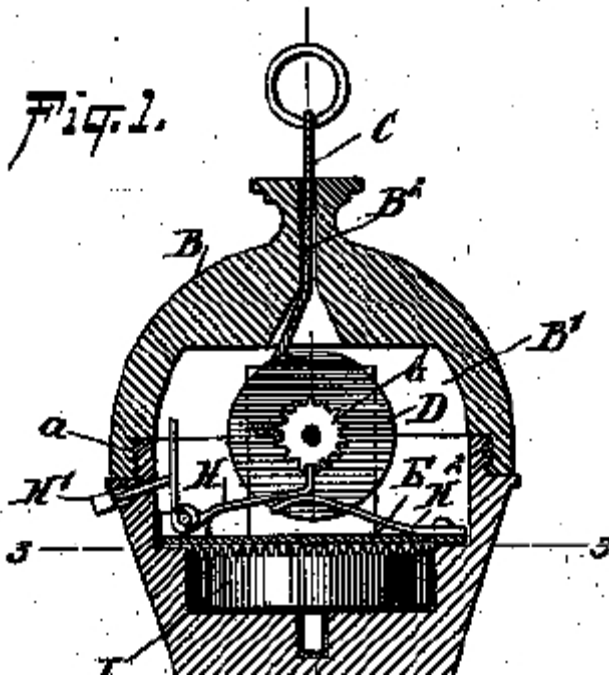
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PATENT NEWS FOR PLUMB BOB COLLECTORS

Patent

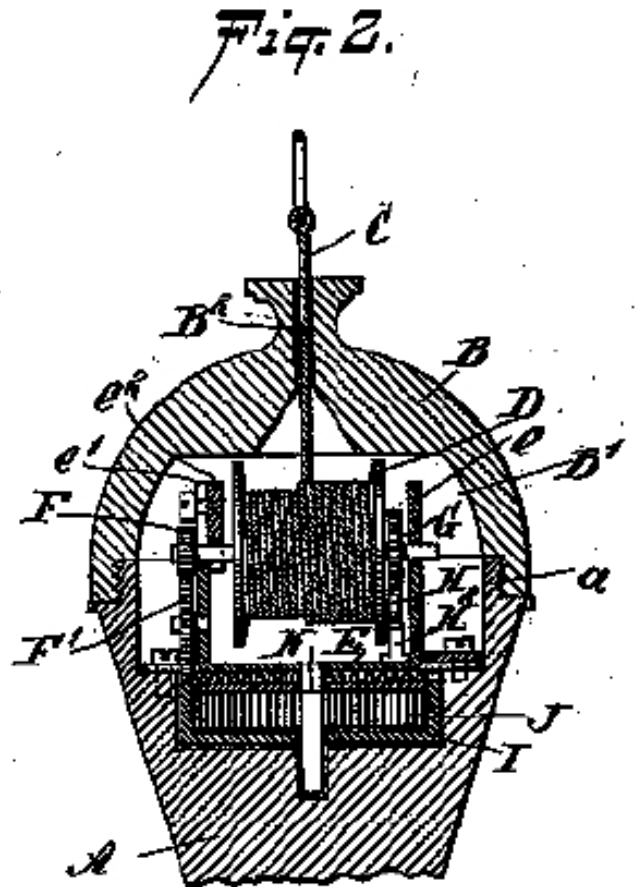
I. A. MARTIN.
 PLUMB BOB.

(Application filed Apr. 30, 1898.)



I. A. MARTIN.
 PLUMB BOB.

(Application filed Apr. 30, 1898.)



3. A plumb-bob formed in two parts attach-
 able to each other, having a cavity formed
 between and a central hole for the passage of
 the suspending-cord, a frame slidable in said
 cavity and consisting of a plate having up- 50
 turned standards and having a central post
 fixedly secured thereto and projecting below
 the frame, a spiral spring beneath the frame
 and secured by its inner end to said post, a 55
 cup journaled upon the post and encircling
 the spring, the upper edge of the cup being
 toothed and the outer end of the spring being
 secured to the cup to rotate it, a reel jour-
 naled in the standards and above the frame,
 gears connecting the reel and the teeth upon 60
 the cup, a catch or locking lever pivoted upon
 the frame and engaging a pinion, a spring se-
 cured to the frame and holding the catch in
 engagement and a pin passing through the
 wall of the cavity and engaging said catch- 65
 lever to free it from the pinion.

ISAAC A. MARTIN.