

PATENT NEWS FOR PLUMB BOB COLLECTORS

WR Plumb bob collectors PATENT NEWS # 2007-06

Patents:

ES49301 CANCID 1980 and US3761659 QUENOT 1973 and
US1745027 OXFORD 1930 and US4300290 ZALEWSKI 1981

For the Spanish patent **ES49301 CANCID 1980** I asked Primitivo Gonzales for a translation, because my knowledge of Spanish is =zero. Noa, a daughter of him was so kind to translate it. Thank you very much, Noa. Here is here email:

"Hello Wolfgang

I'm Noa, my father has given me the patent to make a translation but I'm finding it nearly impossible, because of the technical words it uses.

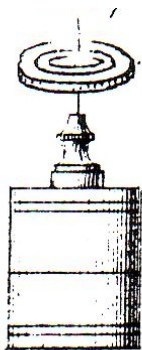
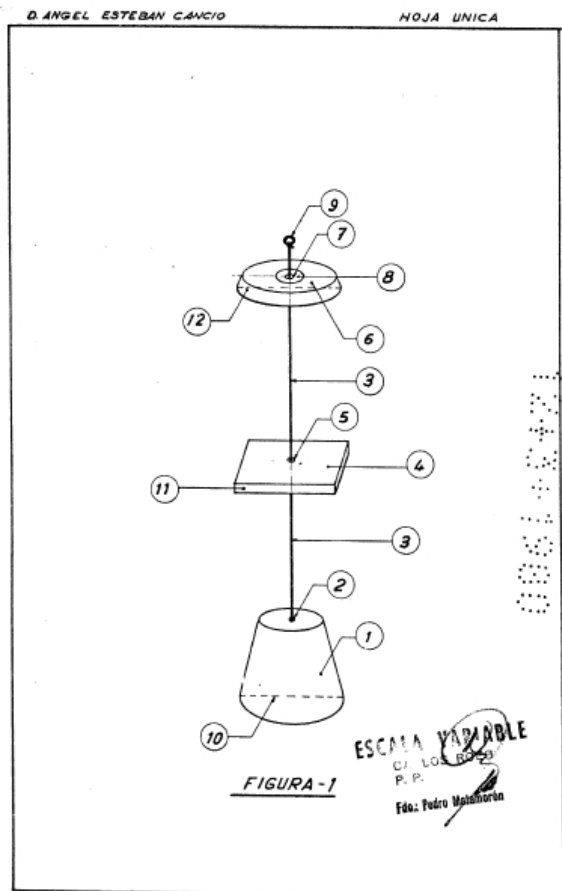
The plumb bob (this word isn't used in all the text) is named as "Device to see the verticality". Firstly it explains what it is for, to give the correct position of objects that need to be levelled out vertically. It also talks about the shape of the three different parts and that they are joined by a line that is fixed in the main part and goes through holes in the other two parts and that it goes knotted in its free part but placed in a perforation with hazelnut shape so that is more comfortable. Then it explains how the device works and that some drawings are attached for better explanation. It also says that in construction the main part is called "plumb".

The diameter of the three parts is the same.

Hope this can help

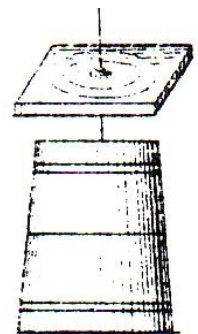
Noa

This is the first time that I saw a FLAT ROUND spacer, and this in combination with a flat SQUARE spacer. The other important statement is: **The diameter of the three parts is the same.**



11226

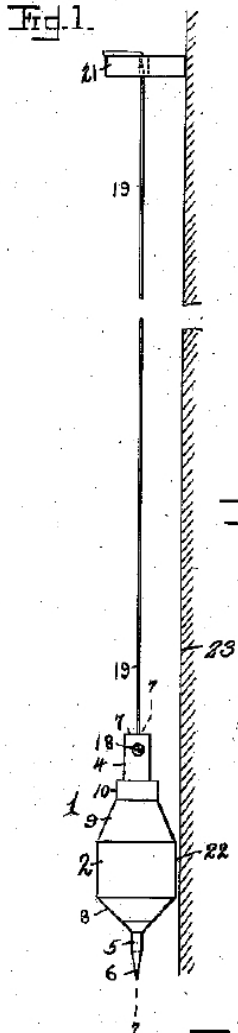
I found the ROUND FLAT SPACER and the SQUARE SPACER in a FRENCH catalogue from REBATTET F.M. Paris. Date unknown, I guess ca.1910 (complete page attached to the email). The round spacer is attached to a cylindrical flat bottom plumb bob. The square spacer is attached to a typical French plumb bob with cut cone shape.



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The next American patent **US1745027 OXFORD 1930** was mentioned as "Reference Cited" in the US patent given to French factory QUENTO (next page).



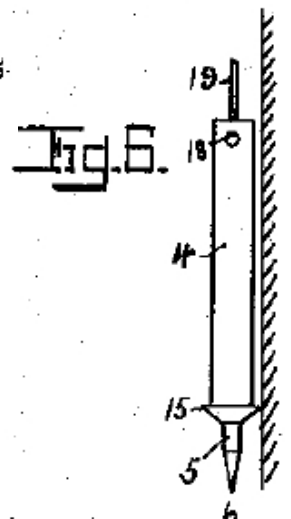
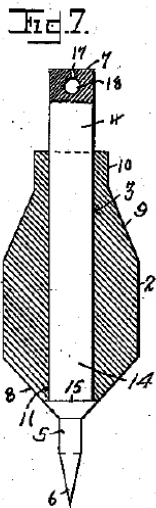
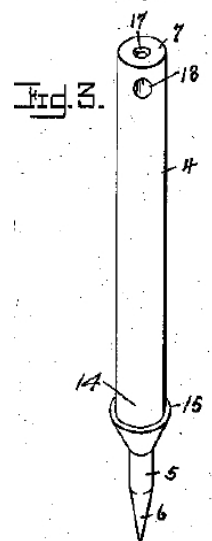
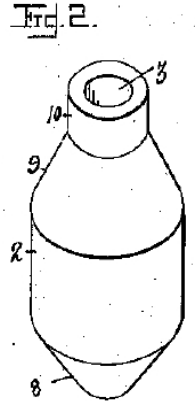
This patent to **OXFORD** was given for a "TWO IN ONE PLUMB BOB A further object of the invention is to provide a combined **plumb-bob and gauge** whereby a user may determine the exact distance the plum-line is from the surface being plumbed"

"A still further object of the invention is to provide **the combination of a plumb-bob and a gauge** therefore, the bob and gauge being of the exact same diameter"

from wedging too tightly in said bore. The upper end 7 of the core 4 is provided with a central vertical bore 17 which meets the side horizontal bore 18 to receive the knotted end of the plumb-line 19, the upper end of which extends through a bore 20 in the disk 21 the diameter of which is identical with that of the large cylindrical portion 22 of said body 2.

The hole in the gauge is one-thirty-second larger than the hole in the spike of the plumb-bob. This disk is the same diameter as the body of the plumb-bob and is 1/4" thick.

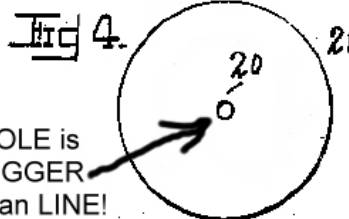
The radius of the gauge 21 and plumb-bob 2 is stamped on both, so that the workman will know exactly how far away his line 19 or center point is from the outer wall 22 of the plumb-bob.



J. T. OXFORD 1,745,027

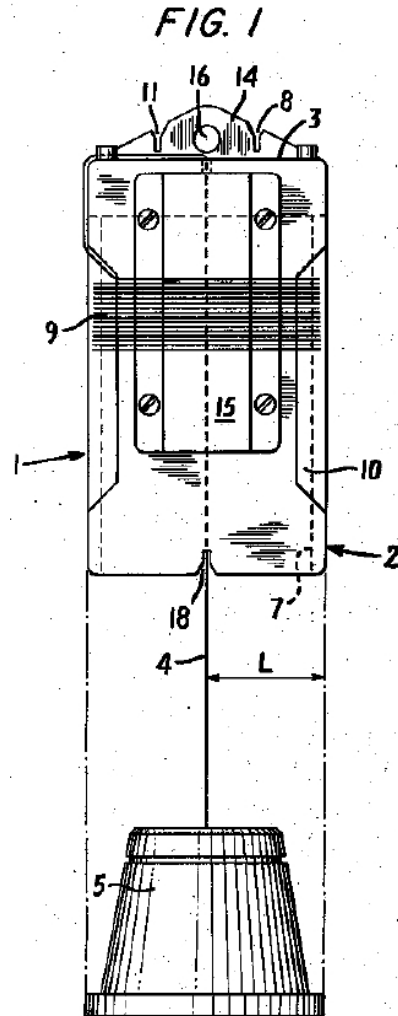
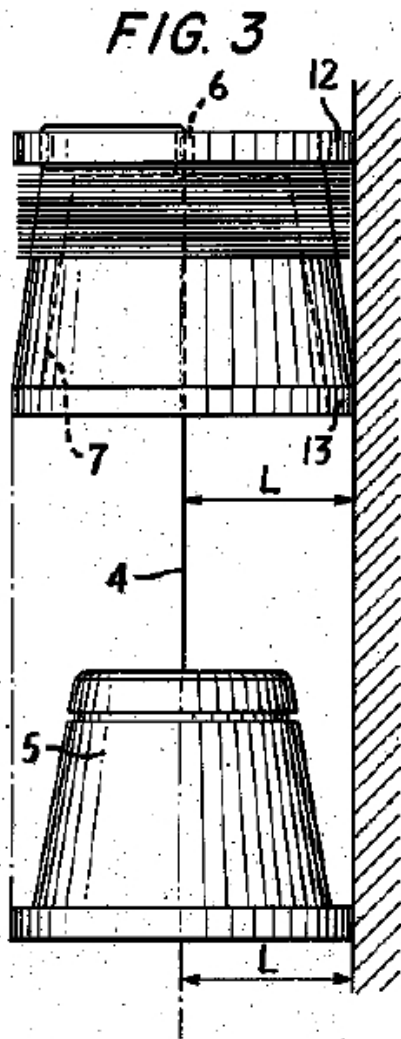
PLUMB BOB

Filed Sept. 25, 1927



PATENT NEWS FOR PLUMB BOB COLLECTORS

The third is an American patent **US3761659 QUENOT 1973**



This American patent given to the well known French factory for tools was mentioned in the next US patent of ZALEWSKI as well as the patent of OXFORD.

Sometimes we have discussed if the spacer has a **length of side LONGER than the diameter of the plumb bob or EQUAL?** Up to now we have seen 3 patents where the length and the diameter are the same.

Now we will see the American patent **US4300290 ZALEWSKI 1981 "VERTICAL SIGHT ADJUSTER"**

PATENT NEWS FOR PLUMB BOB COLLECTORS

United States Patent [19] **4,300,290**
Zalewski [45] **Nov. 17, 1981**

[54] **VERTICAL SIGHT ADJUSTER**
[76] Inventor: **Leon Zalewski**, 4 Pleasant St., P.O.
Box 119, Warehouse Point, Conn.
06088
[21] Appl. No.: **144,957**
[22] Filed: **Apr. 29, 1980**

3,766,659 10/1973 Quenot 33/392
Primary Examiner—Steven L. Stephan
Attorney, Agent, or Firm—McCormick, Paulding &
Huber

Related U.S. Application Data
[63] Continuation-in-part of Ser. No. 1,521, Jan. 9, 1979,
abandoned.
[51] Int. Cl.³ **G01C 15/10**
[52] U.S. Cl. **33/392**
[58] Field of Search 33/392, 393, 394

[57] **ABSTRACT**
A device for checking the verticality of a wall includes a square plate with a side length somewhat longer than the diameter of a frusto-conical plumb-bob. A plumb line has one end connected to the plumb-bob, and the other end passed through an opening in the plate so that the user can grasp the excess line in his hand as he holds the plate with his other hand such that it can be tilted relative to the horizontal and/or the line used to raise and lower the plumb-bob as required to check for verticality of the walls surface.

[56] **References Cited**
U.S. PATENT DOCUMENTS
1,745,027 1/1930 Oxford 33/392

3 Claims, 5 Drawing Figures

ZALEWSKI compares his invention with the invention of QUENOT.....and here we see the first time that a spacer has to have a longer side than the diameter of the plumb bob! See the (marked) original text.

VERTICAL SIGHT ADJUSTER

CROSS REFERENCE TO RELATED APPLICATION

This invention is a continuation-in-part of application Ser. No. 1,521, filed Jan. 9, 1979 by the inventor herein and having the same title now abandoned.

BACKGROUND OF THE INVENTION

This invention relates generally to devices for checking the verticality of wall surfaces or the like and deals more particularly with an inexpensive such device having advantages not available in prior art devices of this type.

The 1973 patent to Quenot U.S. Pat. No. 3,766,659 shows a rather complex device of this type, and the upper part or casing is adapted to house the plumb-bob when the device is not in use, and such casing provides for the positioning of said casing against the wall during use.

The usefulness of the Quenot device is limited precisely because of the inherent design limitation as to this single possible position for the casing. When the Quenot device is so used it cannot have the tilting capability possible with the herein device disclosed, particularly as to the capability for determining how far the wall departs from the vertical.

An object of the present invention is to provide a device for checking the verticality of surfaces such that the foregoing disadvantages are not encountered, and so that one may more readily check a wall for verticality than has been possible heretofore.

SUMMARY OF THE INVENTION

According to the invention, a device for checking the verticality of the wall surface preferably includes a plumb-bob which may have a generally frusto-conical configuration and define an axial opening extending through it, a plumb line knotted so as to be received in said plumb-bob opening and to support the plumb-bob on such line, and a rectangular plate with a central hole slidably receiving the plumb line and such that the plate has at least one pair of opposed sides which are parallel, and which parallel sides are slightly longer than the maximum outside diameter of the plumb-bob whereby the said plate can be held with one of the sides against the wall and with the plumb-bob hung therefrom with the result that the plate can be pivotally moved to check for clearance between such wall surface and the plumb-bob itself. At some predetermined angle, preferably on the order of thirty degrees but no greater than an angle of forty-five degrees, the plumb-line will support the plumb-bob in such a way that the latter just touches the wall when the wall is vertical.

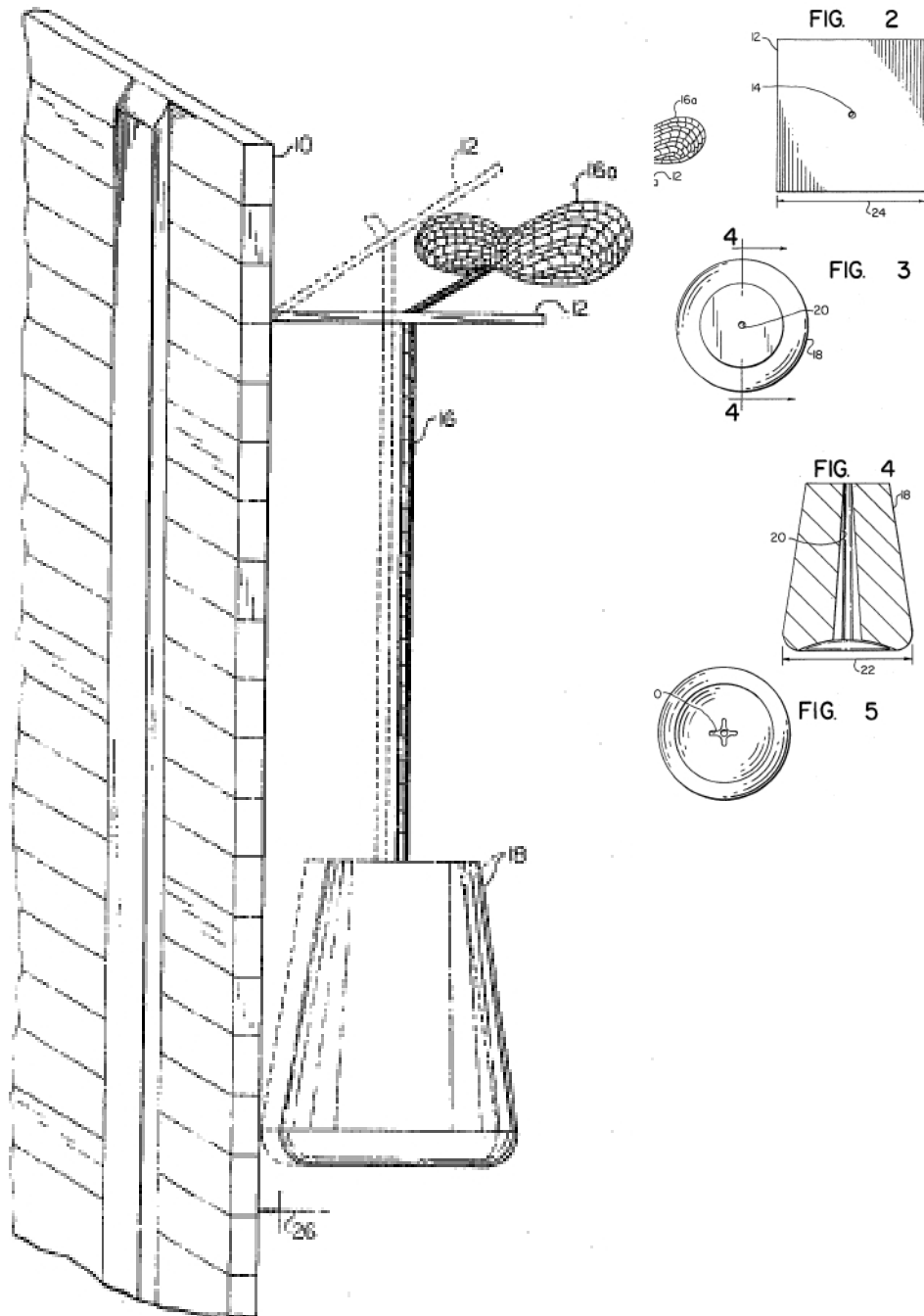
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In the drawings you can see very well what he means. In my opinion it is better to have a longer spacer, because you can't see if the wall is exact vertical or "more than vertical". In both cases the plumb bob touches the wall. (see next page)

U.S. Patent

Nov. 17, 1981

4,300,290



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We have seen now several patents for the FLAT SPACER (I don't speak about the wooden long spacer)

- 1) round + square spacer **with the same** length/diameter as the diameter of the plumb bob. (CANDID)
- 2) round spacer **with the same** diameter as the plumb bob, **BUT** with a hole that has a **bigger diameter** as the hole in the body of the plumb bob. (OXFORD)
- 3) A case as spacer **with the same** measures as the diameter of the plumb bob (QUENOT)
- 4) Square spacer **with a longer side** as the diameter of the plumb bob (ZALEWSKI)

In my collection I found no spacer that was bigger than the diameter of the plumb bob, but two were a little bit smaller!! ☺

As you see, everything is possible and you can get a patent for each modification.

I prefer the spacer with a **longer** side than the diameter of the plumb bob, because if the plumb bob touches the vertical wall it is the same as when the wall is bent to the left. It touches also. **Touch is touch.**

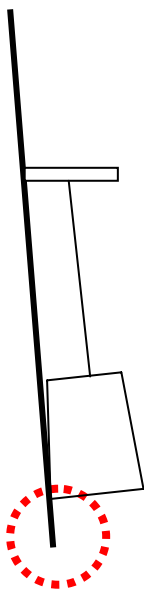
It is like pregnant. You can't be "a little bit" pregnant. It is only YES or NO. ☺

EXAMPLE: A SPACER OF SAME LENGTH OF SIDE AS DIAMETER OF PLUMB BOB

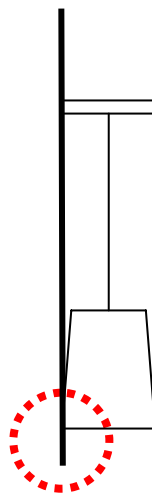
NOT vertical (left)

VERTICAL

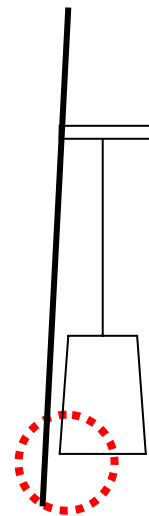
NOT vertical (right)



TOUCH



TOUCH



NOT TOUCHED

PATENT NEWS FOR PLUMB BOB COLLECTORS

Just I found one of my plumb bobs (#208, see picture) from IRAN / AFGHANISTAN that has a ROUND spacer with a diameter of 40mm. The plumb bob has a diameter of 38,5. mm.

This plumb bob looks like a weight, but I call it plumb bob, because it has a spacer. The line looks not very new, so that I think it was also used as a plumb bob.

While I was writing this patent news I also measured my FRENCH CONICAL plumb bobs and their SQUARE SPACERS (old and newer). I found very different results. Some have the equal length and some spacers are SMALLER than the plumb bob. I think it is a result of the different production ways. The spacer is founded and the plumb bob came from a lathe. The quality control did not work.

What are your experiences about this theme?



UPDATE:

Here you see one of the QUENOT tools. Not exact the same as shown on **page 3**, but the same type: patent FR1538547 and 1520648 of April 4, 1968

