

WR PATENT NEWS # 2007-26

PATENT US5720112 ADAMS et al. 1998 ASYMMETRICAL PLUMB BOB AND METHOD



This patent is known as “PLUMB BOB BARBARA AND ROBERT”

Everybody of you has seen on Ebay or in other advertisements the figural plumb bob called BARBARA:

Sometimes she appears as NUDE woman (left), sometimes as SEMI-NUDE Plumb BRANDI with short shorts. ☺

The brother of Barbara or BRANDI is ROBERT: I found him dressed with shorts only.



*The original figures are designed by **Stuart Land***

I can not show his nice pictures, because there is a copyright and I will not get trouble.

Please see www.studiosl.com/html/plumb_barbara_robert.html

Hi. My name is Stuart Land, and this Web site is a cross-section of my art world. Here, you will find examples of sculpture, digital paintings, photography, water fountains, costumes, screenplays and novels.

I create for the Fine Arts, as well as the Entertainment Business and commercial arts, like film, theme parks, hotels, museums, and universities. My style ranges from realism to abstract art, contemporary to naïve art, fantasy to erotic art. Most artwork is offered as limited editions. I accept commissions, and I am available for work-for-hire

*In Germany this woman plumb bob in the plastic box is sold as “HEIDI SENKEL” Senkel is an abbreviation of Senklot = plumb bob. On the box you can read: “350 grams Solid Metal Construction Solid Brass Bob Stainless Steel tip. Computer designed for optimal balance. **Patent pending**. Sold by SWISS + LEVEL Föhrenweg 20 FL 9496 Balzers. That is in LIECHTENSTEIN a very small country between Swiss and Austria with nearly 25000 inhabitants and several hundred thousands of post offices boxes from foreign companies ☺ There they have very low tax.*



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"PATENT PENDING" is the catch-word for me: This tool is patented as:

US005720112A

[11] Patent Number: 5,720,112

[45] Date of Patent: Feb. 24, 1998



Fig. 4

United States Patent [19]

Adams et al.

[54] ASYMMETRICAL PLUMB BOB AND METHOD

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[73] Assignee: DWBH Ventures Ltd., Nassau, Bahamas

[21] Appl. No.: 532,022

[22] Filed: Sep. 20, 1995

[51] Int. Cl.⁶ G01C 15/10

[52] U.S. Cl. 33/392; 33/391

[58] Field of Search 33/293, 295, 391, 33/392, 393, 394, 395, 398; D10/61, 74, 65

[57] ABSTRACT

A plumb bob includes an asymmetrical device 22 and the bob weight 20. The asymmetrical device 22 includes a plug 20 which can be received in a cavity 24 of the bob weight 20. Appropriate material such as solder or an adhesive is selected for securing the asymmetric device 22 and the bob weight 20 in a manner that causes the center of gravity of the asymmetric device 22 to be aligned with that of the bob weight 20.

14 Claims, 2 Drawing Sheets

We claim: 30
1. A plumb bob comprising:
an asymmetrical device having a top portion and a bottom portion, with the top portion of the asymmetrical device adapted to be hung from a string;
a bob weight, said bob weight extending from the bottom 35 portion of the asymmetrical device; and
said asymmetrical device is in the shape of a human figure.

The only difference between the patent and the produced tool: The woman is dressed completely.

His first 3 claims:

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This is one of the rare ASYMMETRICAL PLUMB BOBS.

BACKGROUND OF THE INVENTION

Historically, plumb bobs or plummets have been designed as shapes of revolution. By being axially symmetric, a properly made plumb bob will point to a location exactly below the point from which the bob hangs. The symmetry allows the bob to point consistently even when the bob rotates.

A mass manufactured bob will typically have variations due to process tolerances, therefore each bob made by high quantity methods such as injection molding or die-casting needs to be calibrated to function properly. The mass manufactured bob can be altered either by removing material or relocating material in an iterative process until the device hangs true. This process is undesirable due to the complexity of having a moveable mass adjustment system or the aesthetic problems created by grinding or shaving to achieve balance.

In this patent are described all details.

Very interesting are the steps of production. The invention is not for a plumb bob only, but also for a Method.

SUMMARY OF THE INVENTION

The present invention is directed to overcoming disadvantages of the prior art. In the present invention, a plumb bob comprises an asymmetrical device having a top portion and a bottom portion with the top portion of the asymmetrical device adapted to be hung from a string. The plumb bob includes a bob weight with the bob weight extending from the bottom portion of the asymmetrical device.

In a further embodiment, the asymmetrical device and the bob weight are formed separately with the bottom portion of the asymmetrical device defining a plug. The bob weight defines a cavity which is sized to receive the plug so that the asymmetrical device can be secured in the cavity.

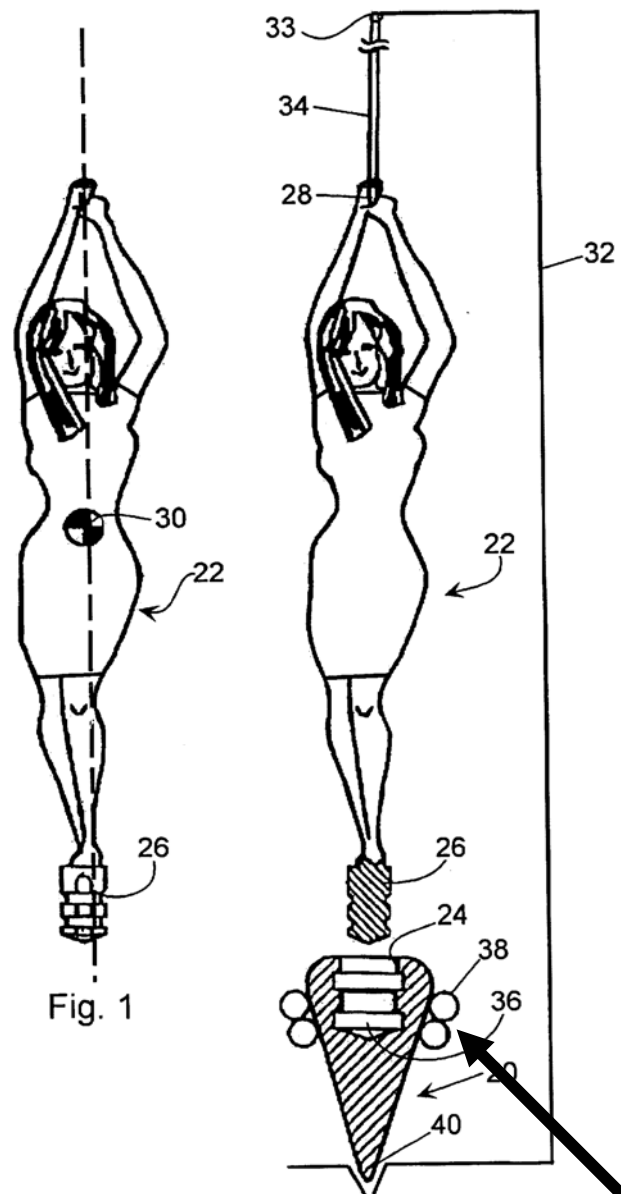
In a further aspect of the invention, the cavity of the bob weight is sized to receive the plug of the asymmetrical device and the material which can secure the plug into the cavity.

In a further aspect of the invention, the material is a liquid solder which solidifies securing the plug in the cavity.

In another aspect of the invention, a method for making the plumb bob comprises the steps of fabricating a device with a first shape and fabricating a bob weight with a second shape. The centers of gravity of the first shape and the second shape are aligned. The first shape and the second shape are secured together with a material that changes states from a fluid state to a rigid state.

Yet another aspect of the method for making a plumb bob comprises the steps of fabricating a device for with a first shape and a plug, and fabricating a bob weight with a second shape and a cavity for receiving the plug. The device is positioned over the bob weight with the center of gravity of the device about on line with the center of gravity of the bob weight with the plug above the cavity. The bob weight is then heated and liquid solder is introduced into the cavity. The device is lowered so that the plug is received in the cavity. Any relative motion between the device and the bob weight is allowed to attenuate. Heat is removed from the bob weight in order to allow the solder to solidify.

In the method, the fabricating steps includes fabricating a device with the first shape which is asymmetrical.



DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

3) In a preferred embodiment, the bob weight is heated with heater 38. The cavity 24 in the bob weight 20 is filled in a preferred embodiment with a molten low-temperature Indium alloy solder 37 and the asymmetrical device 22 is lowered such that the plug hangs into the oversized cavity 24 in the bob weight 20. The cavity 20 in the bob weight 22 must be enough over-sized to allow the worst-case tolerance die-casting device 22 to hang with the plug 26 in the cavity 24 without contacting walls of the bob weight cavity 24. The molten

Complete description sees in the original patent, sent by separate email.

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On Ebay in Israel I found two offers of figural plumb bobs:

