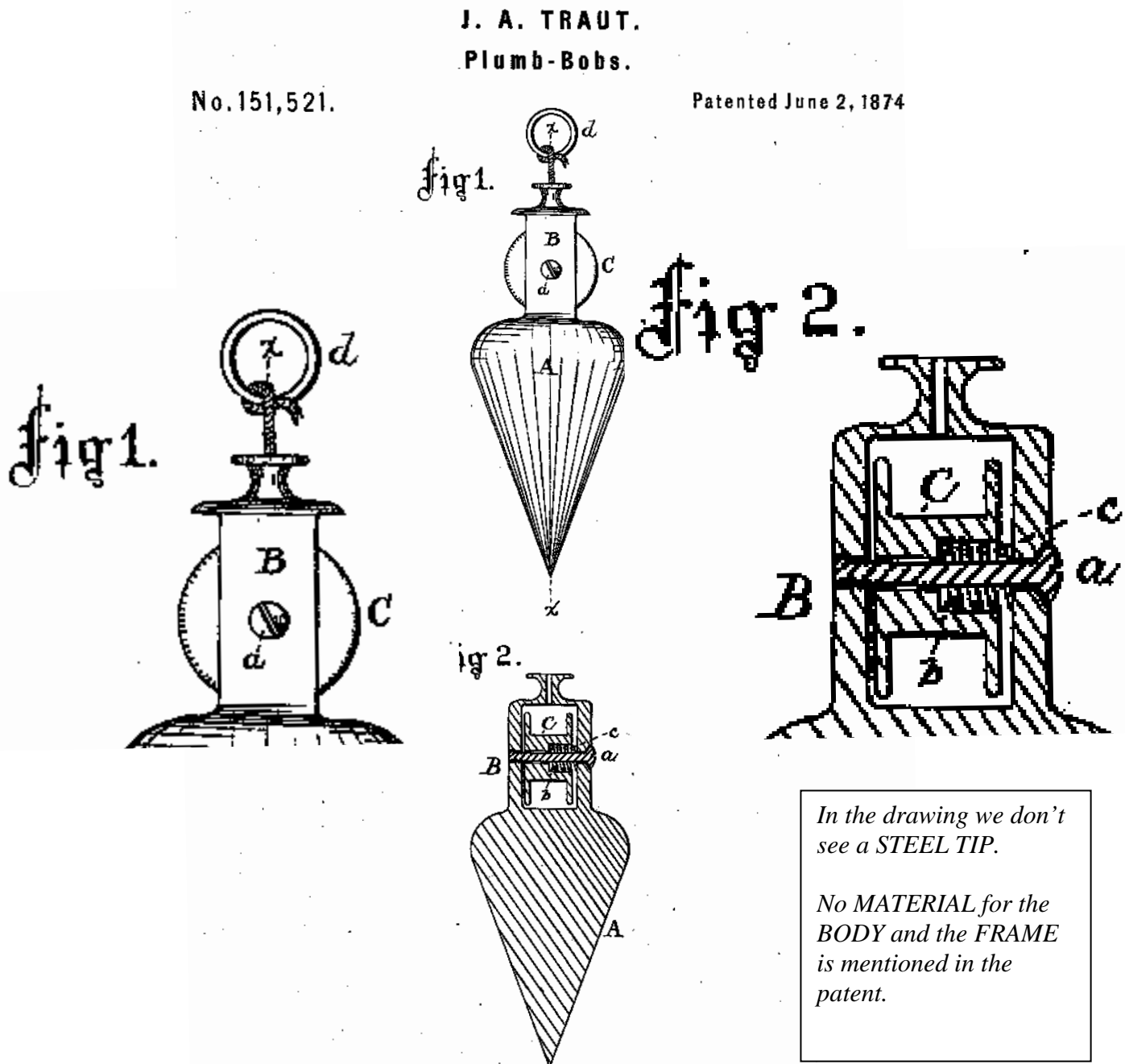


WR PATENT NEWS # 2007-32

PATENT US151521 TRAUT 1874 Plumb Bobs

THEME: STANLEY internal reel

The second patent in my collection for a real plumb bob (not pendulum or combinations tools) is US151521 TRAUT 1874 PLUMB-BOBS (The first patent is US138790 G.B.COWLES 1873 PLUMB-BOBS). This one is so excellent, that it works still in our times and it was imitated by a lot of factories.



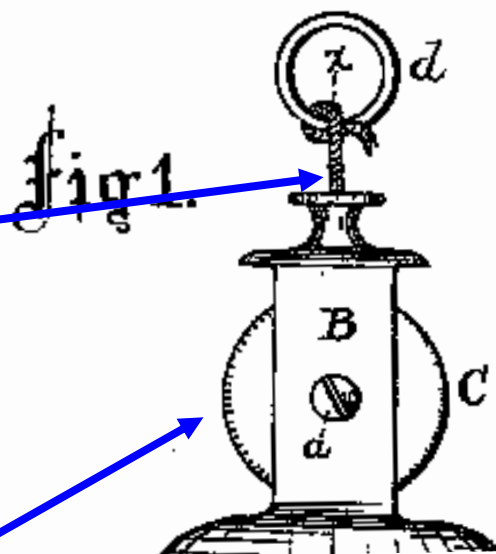
UNITED STATES PATENT OFFICE.

JUSTUS A. TRAUT, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO THE
STANLEY RULE AND LEVEL COMPANY, OF SAME PLACE.

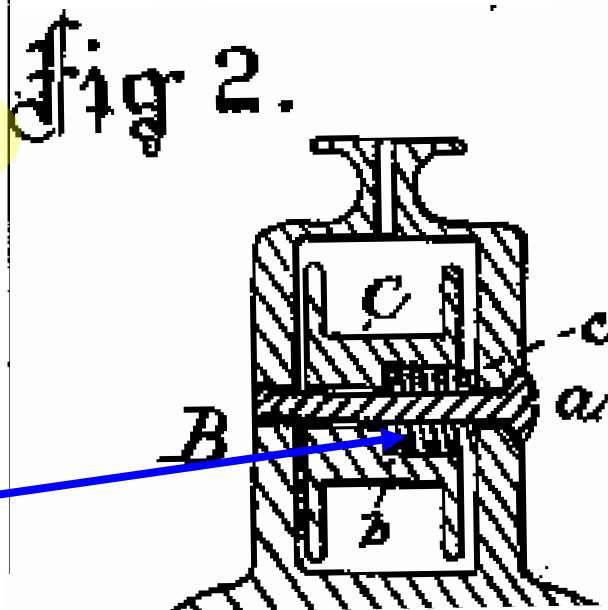
IMPROVEMENT IN PLUMB-BOBS.

Specification forming part of Letters Patent No. 151,521, dated June 2, 1874; application filed
April 26, 1874.

In my plumb-bob a frame extends above the body of the plumb, and within which frame there is a friction-spool, the edges of which project at two sides of the frame; and the central upper portion of said frame is provided with a hole, through which a cord passes to the barrel of the spool, all as hereinafter described.



Upon the upper end of the plumb proper A there is a frame, B, and inside of said frame is a spool, C. This spool is of a diameter larger than the width of the frame B, so that its edge will project, and allow the operator to roll said spool with his fingers; and for convenience of so doing, the edges of the spool are knurled or roughened in any proper manner. This spool C is secured within the frame B by means of a bolt or screw, a, one end of which is threaded, and fits in a correspondingly-threaded hole in one side of the frame. The body of the screw a is straight, and the end opposite the thread is provided with a head of any ordinary construction. One side of the spool C is provided with a recess, b, within which and surrounding the screw a is a spiral spring, c. (See Fig. 2.)



PATENT NEWS especially for PLUMB BOB COLLECTORS

B. The spool B is wound with a fine cord, which passes through a central hole at the upper part of the frame B, and its end is then secured to a ring, *d*, in order to prevent it from drawing into the hole.

It is designed to have the spring *e* of such strength that the friction of the spool C will be sufficient to sustain the weight of the device without unwinding the cord; but the tension of said spring may be regulated by turning the screw *a*, the walls of the frame B being purposely made thin enough to give a little, and thereby admit of said adjustment.



The STANLEY plumb bobs are marked either on the BODY with the patent information "PATD APR. 28, 1874" or on the REEL with "STANLEY MADE IN USA"

The patent information on the body is NOT the patent date June 2, 1874, but the FILING DATE. In 1874 the difference was 2 months only, but later the patent offices needed 2 years and more between FILED and PUBLISHED.



Normally the tools are marked "PATENT PENDING" without a date or with the PUBLICATION DATE.

USING THE PLUMB BOB:

In use, the cord-ring *d* is held by the hand of the operator, and the plumb A hanging pendent therefrom, as in the ordinary manner. If more length of line is desired, a sudden pull on the cord will unwind a portion of it from the spool, whereby the operator is enabled to obtain any desired length of cord by the use of one hand only, thereby leaving the other hand free for other uses. The knurled edges of the spool enable it to be rewound, as before described, and the friction of the spool is such as to hold it in any position that it may be placed for use, and unwound only by design.

PATENT NEWS especially for PLUMB BOB COLLECTORS

The *STANLEY* was produced in 3 types:

- #1 BRASS 8 oz called "SMALL" with steel point
- #2 BRASS 13 oz called "LARGE" with steel point and later in a cat. 1902 we find a
- #5 IRON 13 oz with steel point

Here are some catalogue pages:

GURLEY 1874, QUEEN & CO 1887(#1 and #2) and BINGHAM 1902 (with #5)

190 W. & L. E. GURLEY, TROY, N. Y.



1117.

PATENT ADJUSTABLE PLUMB BOBS.

These are constructed with a reel at the upper end, upon which the line may be kept, and by dropping the bob with a slight jerk, while the ring is held in the hand, any length of line may be reeled off. A spring which has a bearing on the reel, will check and hold the bob firmly at any point on the line.

No.	Price.
1114.—Small (No. 1), 8 oz.....	\$1 75
1115.—Large (No. 2), 13 oz.....	2 25

BRASS PLUMB BOBS.

W. & L. E. GURLEY, MANUFACTURERS.

1120.—Steel Point, Screw Heads, 8 oz.....	\$1 00
1121.— " " " 6 ".....	1 50
1122.— " " " 10 ".....	1 75
1123.— " " " 14 ".....	2 25
1124.— " " " 20 ".....	2 75
1125.— " " " 24 ".....	3 00
1126.— " " " 32 ".....	3 50

PLUMB BOBS.

A 1795. A 1797. A 1799.

A 1795. PLUMB BOB, of brass, with steel point and screw cap,	2 50
A 1796. Do. of steel, do. do. do.	2 50
A 1797. PATENT ADJUSTABLE PLUMB BOB (small), 8 ounce,	1 75
A 1798. Do. (large), 13 do.	2 25
A 1799. PATENT ADJUSTABLE PLUMB BOB, with concealed reel, around which the string is wound by turning the milled head on top. The friction upon the reel within will hold the bob at any desired point of the line.	2 50

Nos. A 1797 and A 1798 are constructed with a reel at the upper end, upon which the line may be kept, and by dropping the bob with a slight jerk, while the ring is held in the hand, any length of line may be reeled off. A spring, which has a bearing on the reel, will check and hold the bob firmly at any desired point of the line.

One-twelfth Dozen in a Box. — per dozen, \$15 00

Plumb-Bobs.

Japanned Iron.

No. 1, Iron, Japanned, Weight, each, 9½ ounces,	per dozen, \$ 0 84
1½, Iron, Japanned, Weight, each, 1½ pounds,	per dozen, 2 00
5, Iron, Japanned, Weight, each, 2½ pounds,	per dozen, 2 25

One-half Dozen in a Box.

Polished Brass.

No. 2, Brass, Steel Point, Weight, each, 6½ ounces,	per dozen, \$ 3 75
3, Brass, Steel Point, Weight, each, 12 ounces,	per dozen, 5 25

One-half Dozen in a Box.

Stanley's Bronze Metal and Iron

No. 11, Adj'ble, Bronze-Metal, Steel Point, Weight, each, 8 ounces, per doz.	\$18 00
12, Same as No. 11, Weight, each, 13 ounces,	per dozen, 21 00
15, Adjustable, Iron, Steel Point, Weight, each, 13 ounces, per doz.	12 00

One only in a Box.

B. & S. Mercury.

No. 793, 3½ ounces, 1 x 4 inches, each, \$	1 00
794, 6 " " 1 x 4 " " "	1 50
795, 12 " " 1 x 5 " " "	2 00

One only in a Box.

No. 1 to 10, Thompson. Nos. 793 to 795, Mercury

	1	2	3	4	5	6	7	8	9	10
Nos. (Mechanics')	1	2	3	4	5	6	7	8	9	10
Weight, Ounces,	1	2	3½	5	8	12½	17	31	7½	10½
Each, -	\$0 85	0 95	1 10	1 25	1 50	2 50	3 00	3 50	2 00	2 50

Thompson's Perfect Plumb-Bobs, Brass, with Steel Points.

Brown & Sharpe's, Steel, Filled with Mercury, Nickel-plated, with Silk Line.

Fig. 798. Fig. 799. Fig. 801. Fig. 802.

Nos. 1, 1½ and 5. Nos. 2 and 3. Nos. 11, 12 and 15.

Fig. 804.

PATENT NEWS especially for PLUMB BOB COLLECTORS

Some pictures of ORIGINAL and IMITATED STANLEY ADJUSTABLE PLUMB BOBS:



Remark by Nelson Denny: THE TRAUT PATENT IS BY FAR THE MOST SUCCESSFUL UNIVERSAL BOB FOR PROVIDING A REEL TO ROLL UP THE STRING AND ALSO WORKS WELL TO MAKE ONE HANDED ADJUSTMENTS TO THE LENGTH OF THE PLUMB LINE. OF COURSE BECAUSE THE REEL IS NOT SPRING DRIVEN IT TAKES A BIT OF ENERGY TO COIL UP THE STRING AFTER USE.

