Feb. 14, 1950 W. E. TALBOTT 2,497,378

HYGROMETER

Filed May 23, 1947 2 Sheets-Sheet 1

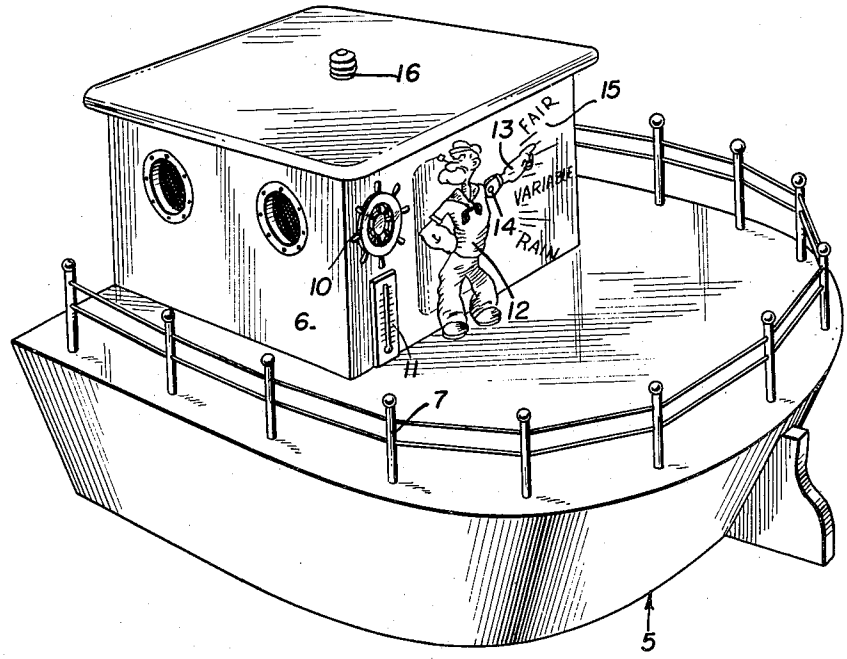


Fig. 1.

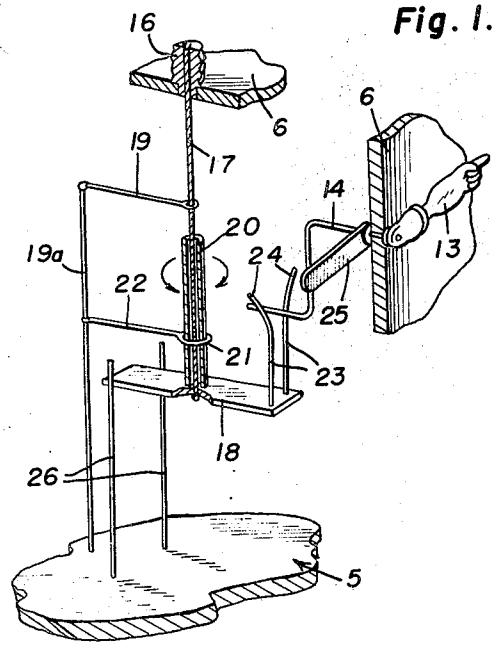


Fig. 4.

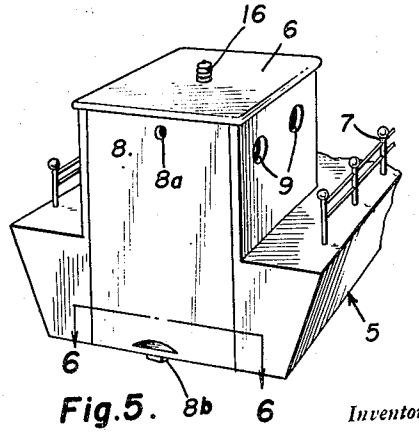


Fig. 5.

Inventor

Warren E. Talbott

By Clarence A. O'Brien and Harvey B. Jacobson

Attorneys

Feb. 14, 1950 W. E. TALBOTT 2,497,378

HYGROMETER

Filed May 23, 1947 2 Sheets-Sheet 2

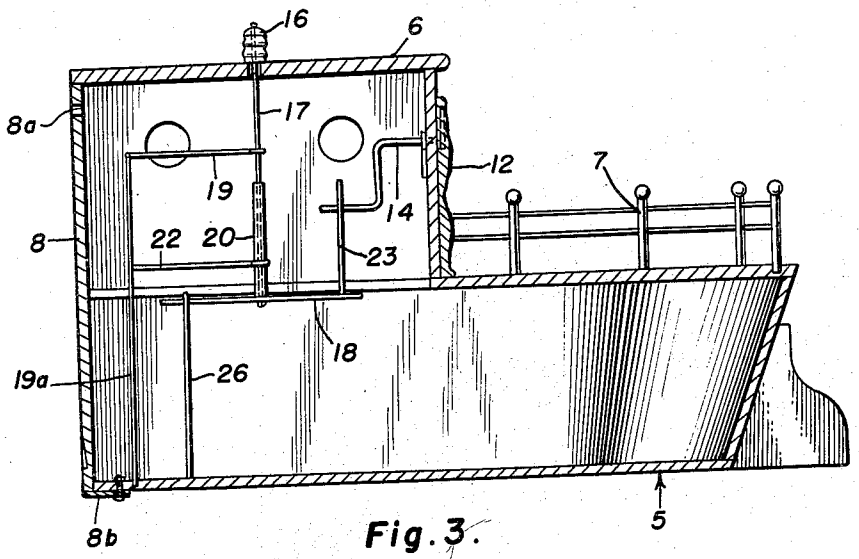


Fig. 3.

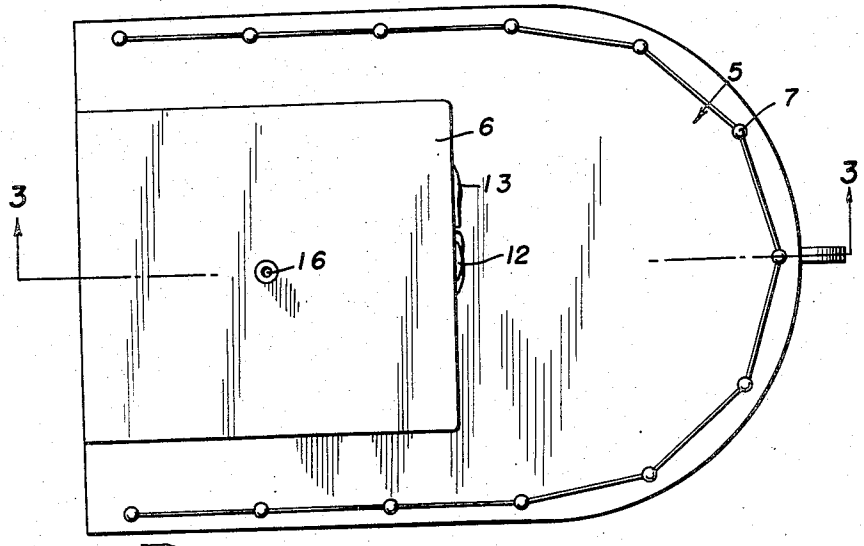


Fig. 2.

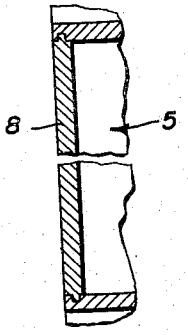


Fig. 6

Inventor

Warren E. Talbott

By Clarence A. O'Brien and Harvey B. Jacobson

Attorneys

Patented Feb. 14, 1950

2,497,378

UNITED STATES PATENT OFFICE

2,497,378

HYGROMETER

Warren E. Talbott, Baltimore, Md.

Application May 23, 1947, Serial No. 749,904

2 Claims. (Cl. 73—335)

1

The present invention relates to new and useful improvements in hygrometers of that class commonly known as weather indicators.

More specifically, the invention embodies the use of a twisted cord of catgut which is caused to turn or rotate about its axis by changes in the hygrometric condition of the atmosphere and to provide means for connecting an indicating hand or pointer to the cord and arranged to indicate changes in the atmospheric conditions.

An important object of the invention is to construct and arrange a device of this character in conjunction with an ornamental stand or support and including a human figure to which the indicating arm is attached.

A further object is to provide a device of this character of simple and practical construction, which is efficient and reliable in use, relatively inexpensive to manufacture, which is constructed and arranged to provide an ornamental and amusing object and which otherwise is well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspetcive view of the ornamental object providing a support for the present invention.

Figure 2 is a top plan view.

Figure 3 is a vertical view taken on a line 3—3 of Figure 2.

Figure 4 is a perspective view of the mechanism of the hygrometer,

Figure 5 is a rear perspective view of the stand of the ornamental object.

Figure 6 is a fragmentary sectional view taken on a line 6—6 of Figure 5.

Referring now to the drawings in detail, wherein for the purpose of illustration I have disclosed a preferred embodiment of the present invention the numeral 5 designates a hollow body generally which is shaped and constructed to represent the stern of a boat on which is supported a deckhouse 6 and railing 7. The deckhouse is provided with a door 8, portholes 9 and at the rear of the deckhouse is mounted an imitation steering wheel 10 and thermometer 11.

The door 8 is slidable vertically and is formed in its upper portion with a hanger opening 8a for hanging the device on a wall or the body 5 may rest on a piece of furniture. The door

2

slides downwardly into an open position and is held in closed position by a pivoted catch 8b at its lower edge.

Also mounted or positioned against the rear of the deckhouse is an imitation human figure 12 having a pivoted arm 13 connected at its inner end to one and of a crank shaft 14 which is journalled in the rear of the deckhouse 6, the arm being vertically swingable to travel over a scale 15 having arranged or displayed thereon the legends "Fair," "Variable," and "Rain," the arm 13 pointing to the respective legends during its vertical movement.

The top of the deckhouse 6 is provided with a plug 16 representing a ramp and to which is secured the upper end of a catgut cord 17. The catgut 17 is suspended from the top of the deckhouse and to its lower end is suitably secured a balanced horizontal beam 18, the catgut being connected to the beam substantially at the center of the latter.

A guide 19 is provided for the upper portion of the catgut 17, the guide being suitably secured to a support 19a in the deckhouse and the lower portion of the catgut extends through a tubular guide 20 which is supported in an upright position in a ring 21 at the outer end of an arm 22 which is also attached to the support 19a.

A pair of upstanding rods 23 are suitably connected at their lower ends to one end of the beam 18 and rise vertically in spaced parallel relation with respect to each other. The upper ends of the rods are bent outwardly from each other in diverging relation as shown at 24 and between which the other end of the crank 14 is positioned.

Also attached to the crank 14 adjacent its end which is journalled in the deckhouse and on the inside of the latter, is a counterbalancing arm 25 which extends in a direction from the crank opposite that of the arm 13 whereby to counterbalance the weight of the last-named arm.

A pair of spaced parallel upstanding stop rods 26 rise from the bottom of the deckhouse 6 and between which the other end of the beam 18 is positioned to limit the horizontal turning movement of the beam.

In the operation of the device, the catgut 17 is responsive to changes in the hydrometric condition of the atmosphere to cause a twisting or rotary movement thereof whereby the beam 18 will be correspondingly turned or rotated horizontally. The upstanding rods 23 positioned at opposite sides of one end of the crank 14 will oscillate the crank and thus swing the indicating

arm 13 vertically to indicate changes in the weather.

The stops 26 limit the extent of rotation of the beam 18.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the construction, operation and advantages of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims.

I claim:

1. A hygrometer comprising in combination, a figure including a pivoted arm, a member responsive to changes in atmospheric conditions to produce a movement of the member, and means operatively connecting the member to the arm to actuate the latter, said member comprising a flexible twisting and untwisting strand suspended from a supporting structure, a horizontally swingable beam attached to the lower end of the strand, a tubular guide for the strand carried by the beam, a pair of spaced parallel rods carried at one end of the beam, and a crank having one end connected to the arm and its other end engaged between said rods for transmitting the motion of said strand to the arm.

2. A hygrometer comprising in combination, a

figure including a pivoted arm, a member responsive to changes in atmospheric conditions to produce a movement of the member, and means operatively connecting the member to the arm to actuate the latter, said member comprising a flexible twisting and untwisting strand suspended from a supporting structure, a horizontally swingable beam attached to the lower end of the strand, a tubular guide for the strand carried by the beam, a pair of spaced parallel rods carried at one end of the beam, a crank having one end connected to the arm and its other end engaged between said rods for transmitting the motion of said strand to the arm, and stops limiting swinging of the beam.

WARREN E. TALBOTT.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
20,326	Clarke	May 25, 1858
183,062	Meucci	Oct. 10, 1876
1,336,380	Sampietro	Apr. 6, 1920
1,953,812	Bristol	May 15, 1934
2,034,884	Sharp	Mar. 24, 1936
2,137,024	Moore et al.	Nov. 15, 1938
2,231,609	Andersen	Feb. 11, 1941

FOREIGN PATENTS

Number	Country	Date
345,009	France	Sept. 26, 1904