

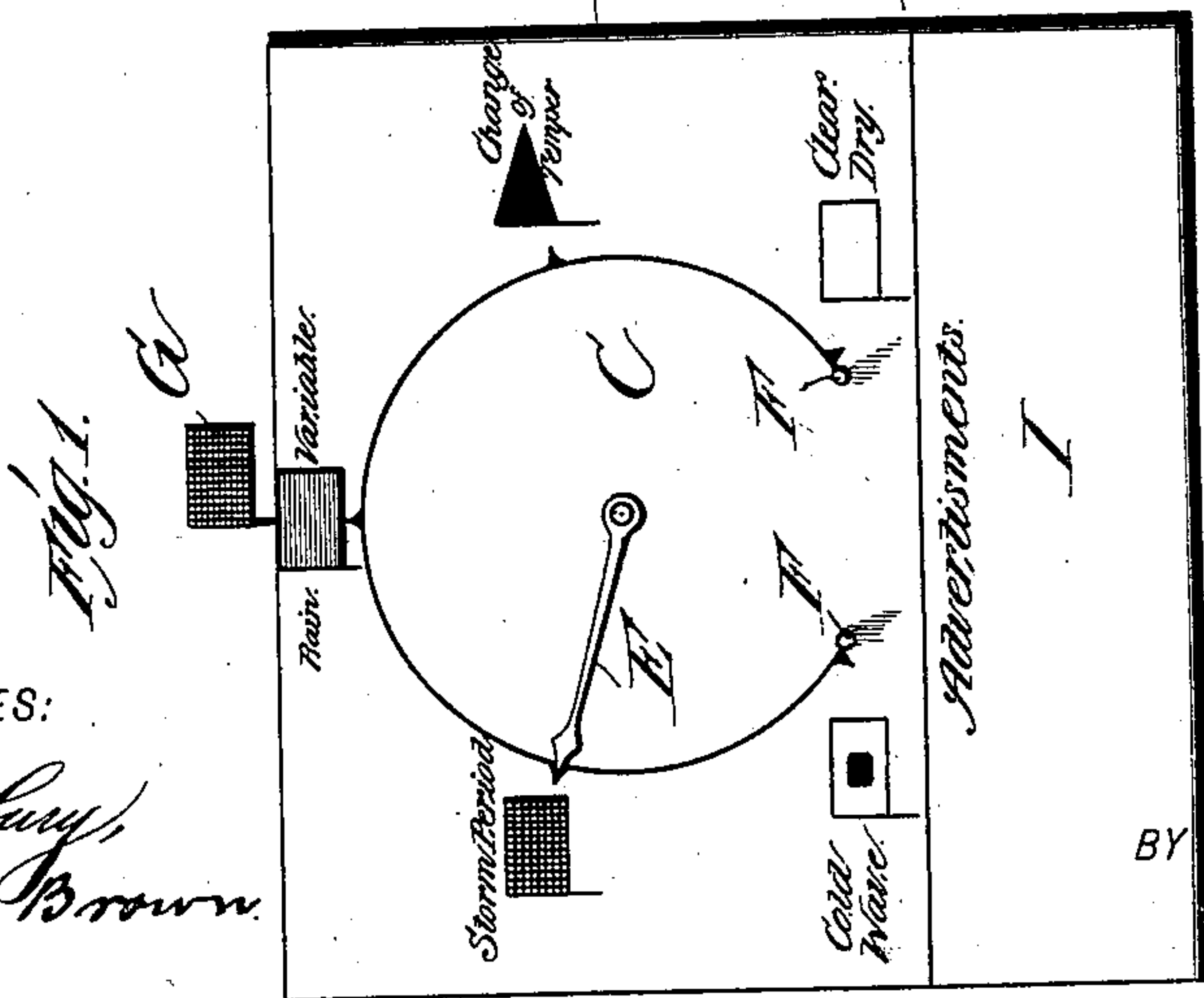
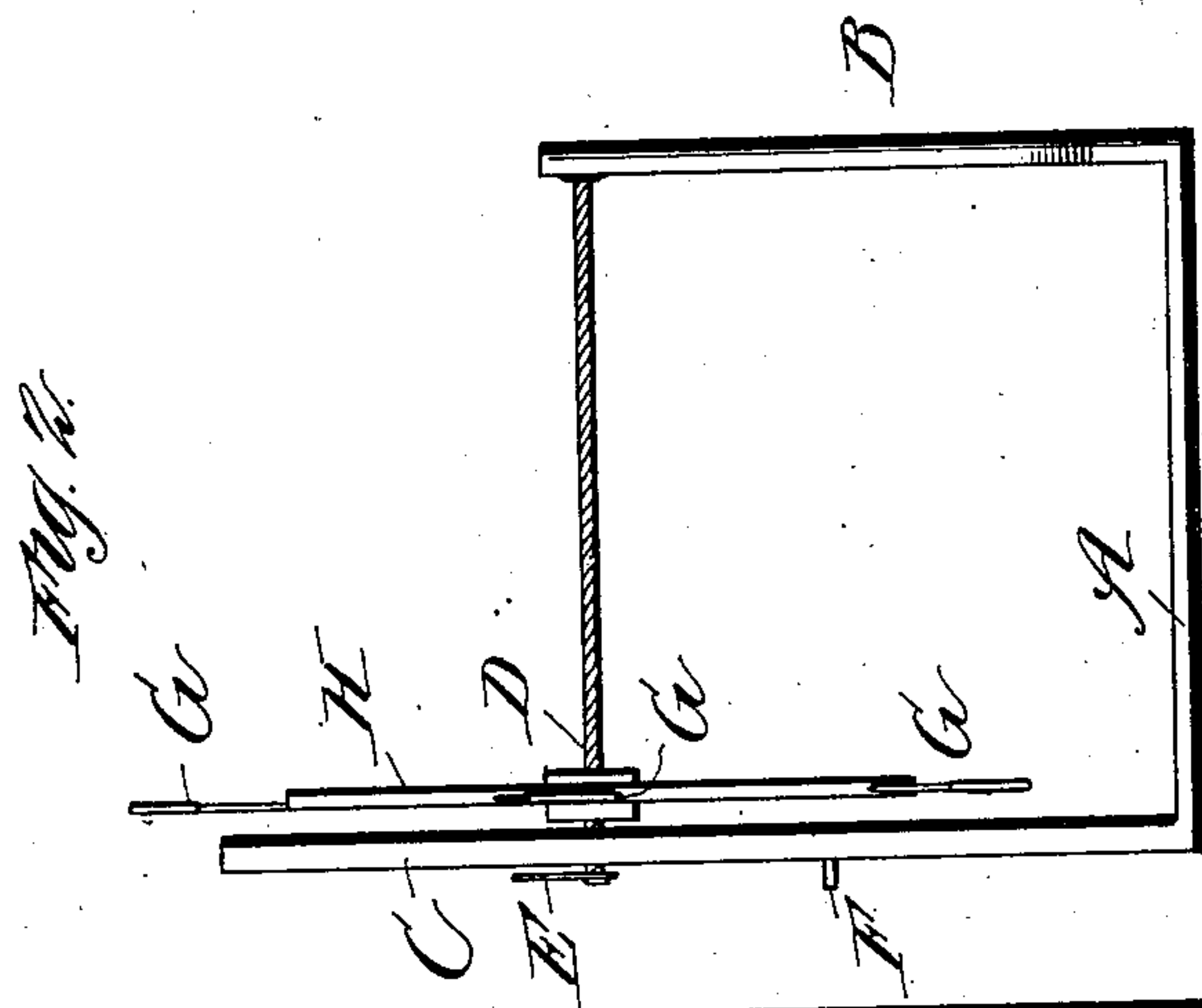
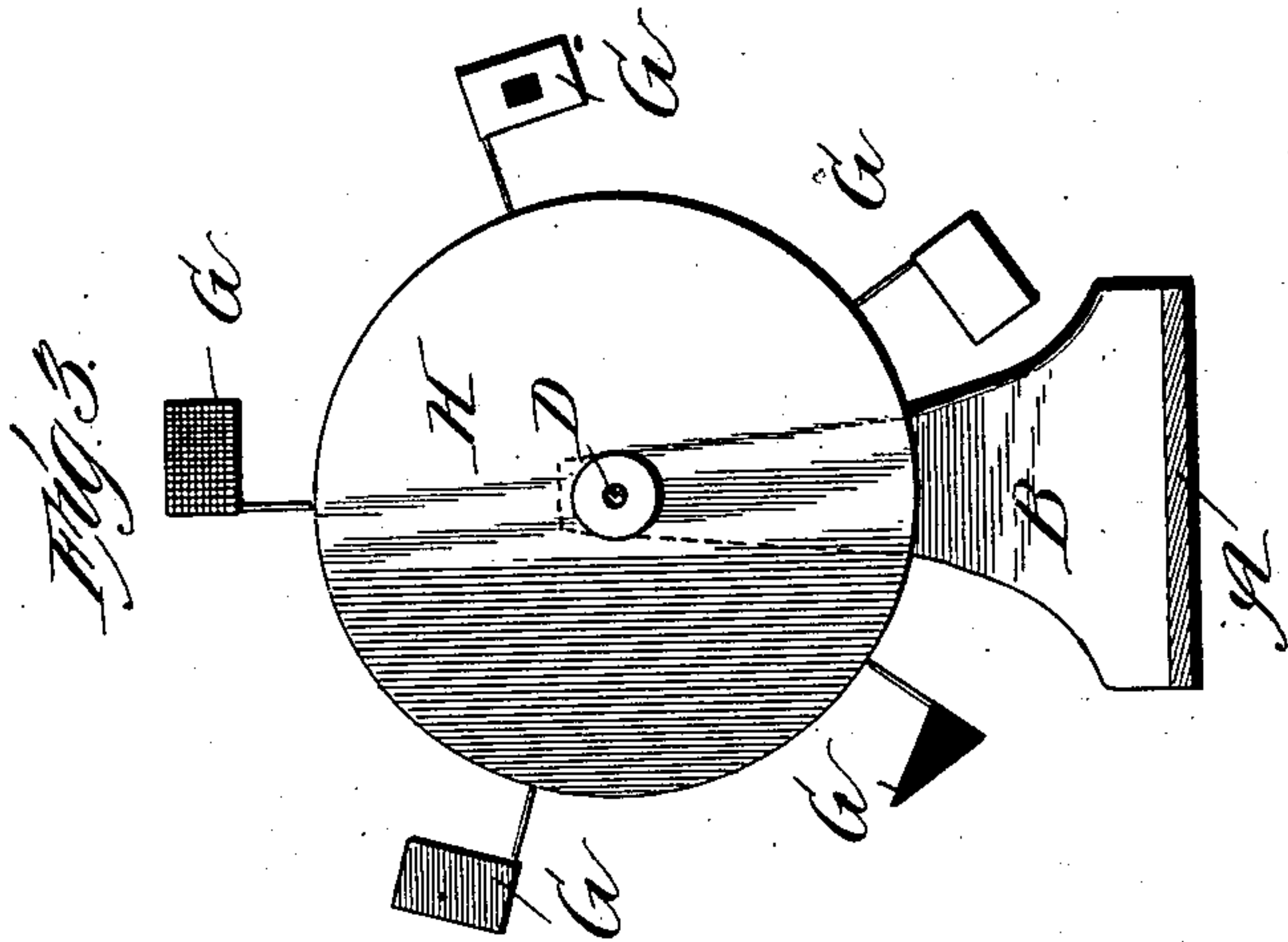
No. 730,633.

PATENTED JUNE 9, 1903.

J. H. GERRER.  
HYGROMETER.

APPLICATION FILED DEC. 23, 1902.

NO MODEL.



WITNESSES:

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INVENTOR

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# UNITED STATES PATENT OFFICE.

JOHN HENRY GERRER, OF ELRENO, OKLAHOMA TERRITORY.

## HYGROMETER.

SPECIFICATION forming part of Letters Patent No. 730,633, dated June 9, 1903.

Application filed December 23, 1902. Serial No. 136,335. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN HENRY GERRER, residing at Elreno, in the county of Canadian and Territory of Oklahoma, have invented  
5 certain new and useful Improvements in Hygrometers, of which the following is a specification.

This invention relates to that class of hygrometers commonly known as "weather-  
10 indicators."

The invention consists of a peculiar device of that character employing signal-flags and a dial and indicator-hand in connection with a twisted strip or string having one end free  
15 and its other end fixed against movement. The said strip or string must be formed of some material that will expand or contract according to atmospheric conditions, thereby twisting or untwisting its free end, to which  
20 end the flag-support and the indicator-hand is secured.

The invention further consists in special details of construction and combination of parts, all as shown in the accompanying drawings  
25 and described in the following specification, with the novel features pointed out in the claim.

In the drawings, Figure 1 is a view showing my invention in front elevation. Fig. 2 is a  
30 side view, and Fig. 3 is a front view with the dial removed.

In constructing my invention I employ a suitable base A, having a rear upright B and a vertically-disposed front or dial C. These  
35 parts may be formed into any desired shape or configuration adapted to the purpose.

D indicates a twisted strip or string that may be formed of gut, whalebone, or other material that is affected by atmospheric conditions well understood. One end of the  
40 twisted string D is secured to the upright B and its other end passed through a suitable opening in the front or dial C. To the extreme

free end of the string D, I affix an indicator-hand E, adapted upon twisting action of the  
45 free end of the string D to move around from one or the other of the projecting pins F.

On the dial I show at several points weather-flags with printed information indicating as the hand moves around atmospheric changes  
50 and probable weather conditions.

G denotes a series of weather-flags, each of which in turn is adapted to be exposed above the dial C. The flags may have any suitable  
55 support serving, substantially, as the wheel H, which is arranged on the string D back of the dial C, as shown, and fixed to turn therewith.

The front side of my hygrometer, which I have hereinbefore termed "dial C," is provided with an advertising-space I.  
60

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The hereinbefore-described hygrometer consisting of a suitable base having front and  
65 rear uprights, a dial on the face of the front upright having a series of weather-flags illustrated thereon, in circular order, a twisted string with one end fixedly secured to the said rear upright and having its other or free end  
70 projected loosely through the said front upright, a hand fixed to the free end of the said string, in front of the said dial, a wheel fixedly arranged on the said string and located in rear of the front upright, a series of mov-  
75 able weather-flags radially disposed on the said wheel and adapted for displaying the uppermost flag only of the series, the said hand being fixed to the twisted string adapted to point to a flag illustrated on the dial of simi-  
80 lar indicating character, to the uppermost movable flag of the series.

JOHN HENRY GERRER.

Witnesses:

J. I. PHELPS,  
W. H. FENDER.