(No Model.)

A. C. CLAUSEN.

WATCH REGULATOR.

No. 293,420. Patented Feb. 12, 1884.

Fig. 1.

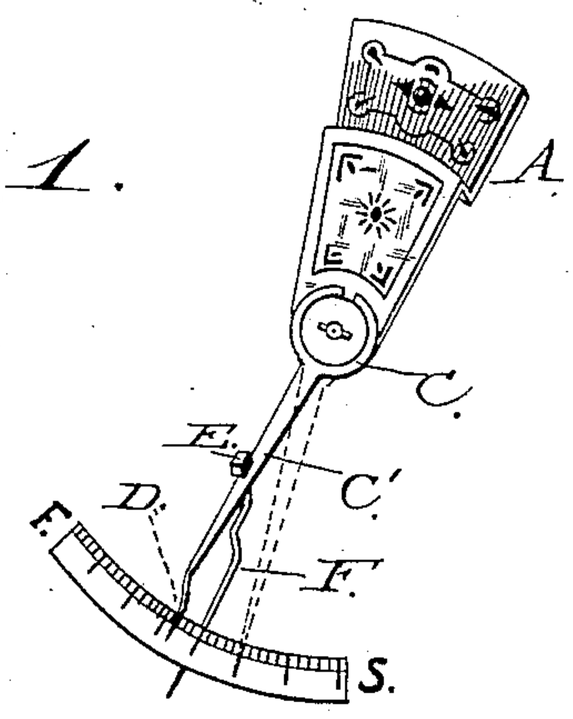
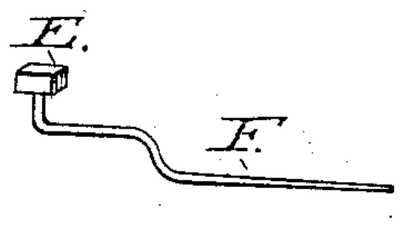


Fig. 2.



Attest;

F. Gates Fowler

Julius Lolger

Inventor;

Adler C. Clausen

by his attys

A. H. Evans & Co.,

UNITED STATES PATENT OFFICE.

ADLER C. CLAUSEN, OF MINNEAPOLIS, MINNESOTA, ASSIGNOR OF ONE-HALF TO J. C. SLAFTER, OF SAME PLACE.

WATCH-REGULATOR.

SPECIFICATION forming part of Letters Patent No. 293,420, dated February 12, 1884.

Application filed November 13, 1883. (No model.)

To all whom it may concern:

Be it known that I, ADLER C. CLAUSEN, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented a new and useful attachment for watches and other mechanism, known more properly as "Recording-Regulators," of which the following is a specification.

My invention relates to improvements in recording-regulators for watches, chronometers, &c.; and it consists in securing to the main indicating-regulator a small elongated supplemental wire or pin, by which means the distance or degrees regulated are recorded, and thus enabling a fine and precise adjustment of the mechanism to be regulated to be made; and it also consists in the novel arrangement and combination of parts, as will be hereinafter described, and specifically set forth in the claim. I obtain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of a regulator with my improvement attached. Fig. 2 is a view of my improvement detached.

Similar letters refer to similar parts throughout the several views.

To enable others to make and use my invention, I will proceed to describe the exact manner in which I have carried it out.

In the drawings, A represents the ordinary supporting-plate of a watch, to which is pivoted the regulator C, consisting of the arm C′ and connecting-hand D, constructed and shaped in the usual manner; or the hand may be bent to any angle desired when found necessary. To the forward part of the arm D is loosely pivoted a small elongated wire or pin, F, by means of a head or shoulder, E, forming part thereof, and which is inserted into a suitable perforation made in the arm D. The regulator F may be so formed that when pivoted to the arm D it will either lie above or below the index-gage and in contact with it.

The several parts here enumerated may be made of the material now ordinarily used in watches, but may be constructed of any other suitable material.

To record the number of degrees to which a watch or similar device is regulated, the recording spring or hand will be placed under and in exact line with the regulator-hand, when, as said hand is either moved to the right or left, (fast or slow,) the recorder spring or pin, owing to its movable bearing at the head and its friction against the gage at the point, remains and will retain it in a semi-stationary position, thus allowing the number of degrees moved either to the left or right to be recorded, and the comparative effect of such movement upon the mechanism of the watch or similar device noted, and by the above action will record where the regulator proper stood before being moved, whether moved right or left, and the comparative effect at such movement.

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

In a regulator, the spring-arm F, held under the segment friction tight, substantially as herein shown, and for the purpose described.

ADLER C. CLAUSEN.

Witnesses:
LOUIS E. KELLEY,
A. E. HAMMOND.