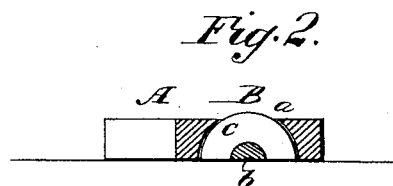
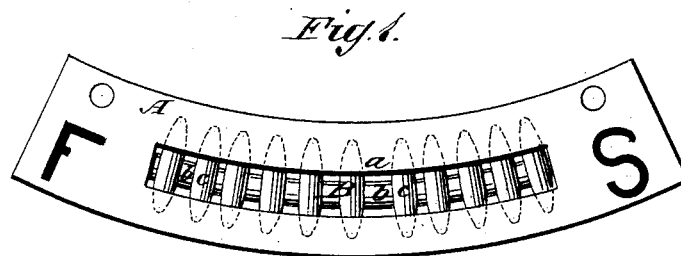


(No Model.)

F. A. CURPEN.
INDEX FOR WATCH REGULATORS.

No. 264,632.

Patented Sept. 19, 1882.



WITNESSES:

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FERDINAND A. CURPEN, OF UPPER SANDUSKY, OHIO.

INDEX FOR WATCH-REGULATORS.

SPECIFICATION forming part of Letters Patent No. 264,632, dated September 19, 1882.

Application filed December 28, 1881. (No model.)

To all whom it may concern:

Be it known that I, FERDINAND A. CURPEN, of Upper Sandusky, Wyandot county, Ohio, have invented a new and Improved Index for Watch-Regulators, of which the following is a full, clear, and exact description.

The object of my invention is to provide for the convenient and precise adjustment of the index-hand of watch-regulators. Heretofore the index-plates have been marked with an arbitrary scale, which is not reliable on account of difference in watches, even in those of the same grade. To obviate the difficulty from such variations I provide indexes specially arranged for each watch, the construction being such that the changes can be readily made, as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both figures.

Figure 1 is a face view of my improved index, and Fig. 2 is a cross-section of the same.

A is the index-plate, which is to be fastened to the watch-plate by screws, or secured in any suitable manner, according to the kind of watch with which it is used. In the plate A is a slot, *a*, of suitable length, and at the under side the plate is cut away or recessed along the sides of the slot.

B is the center piece, consisting of a wire, *b*, on which are strung collars *c*, of semicircular form, at proper distances apart to form the graduations of the index. The collars *c* are

fixed on wire *b*, and fit the recessed edges of slot *a*, so that when plate A is fastened to the watch-plate the center piece, B, is held immovable, with the collars projecting slightly above the index-plate. The collars *c* are to be set apart far enough to indicate a difference of half a minute in twenty-four hours, so that the pointer, when moved from one to the other of the collars, shall effect that change; but to compensate for variations the collars will be set in each watch at the distance apart required, the distance varying more or less, as the case may be. This can be readily done by sliding the collars on the wire and securing them. After being arranged and secured to the watch the index-plate forms a correct guide for the regulation of the watch.

This index-plate may also be applied to clocks having lever-movements and regulator.

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

A watch-regulator index consisting of a plate having slot *a*, a bottom cut away along each side of said slot, a suitable fastening, and center piece formed of a wire with fixed semicircular collars strung thereon at intervals, whereby the center piece is fixedly held with the collars projecting above the index-plate, as described.

FERDINAND A. CURPEN.

Witnesses:

H. R. HENDERSON,
A. A. HARE.