

(No Model.)

S. P. SANDMARK.

WATCH REGULATOR.

No. 318,208.

Patented May 19, 1885.

Fig. 1

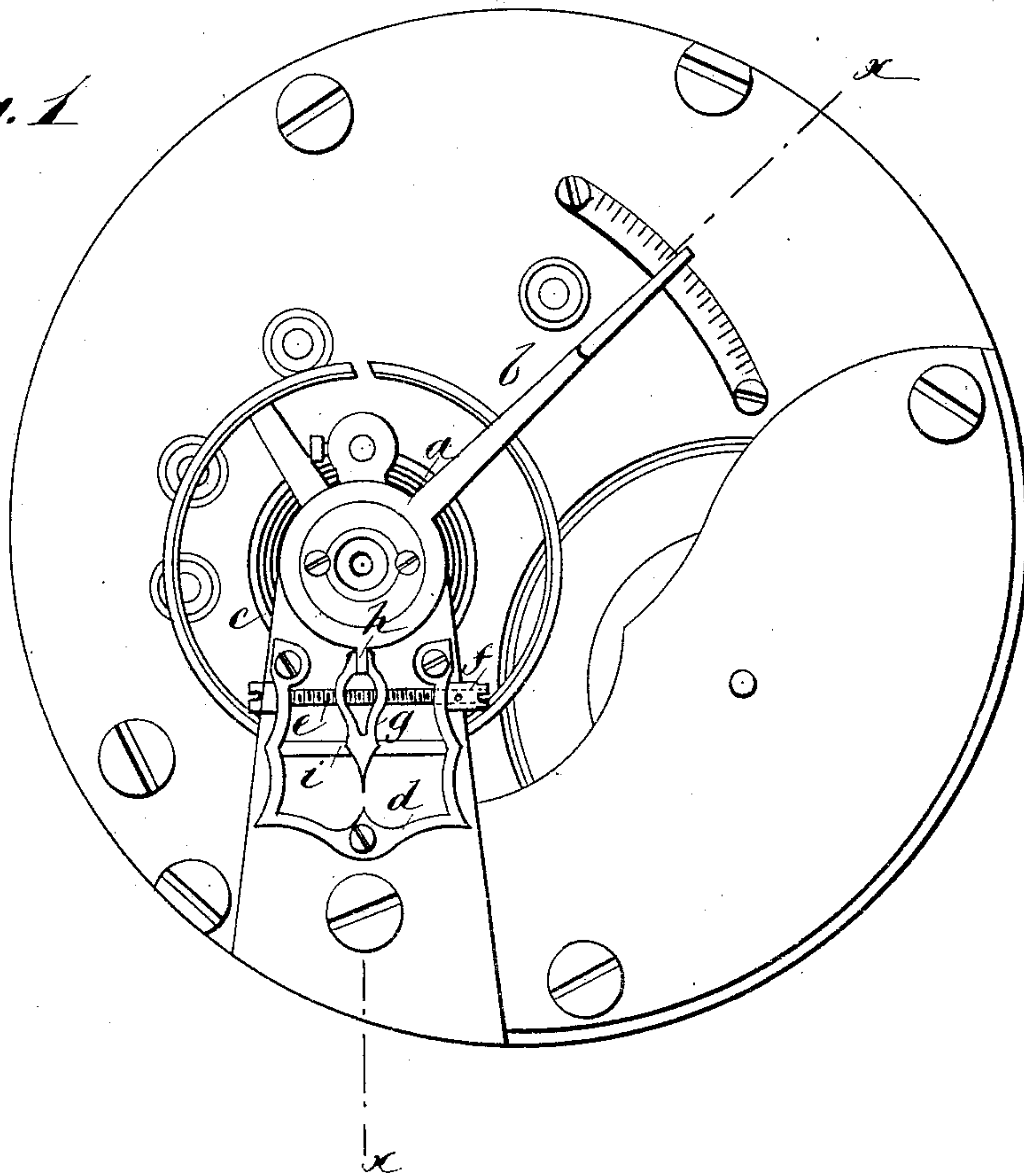


Fig. 2

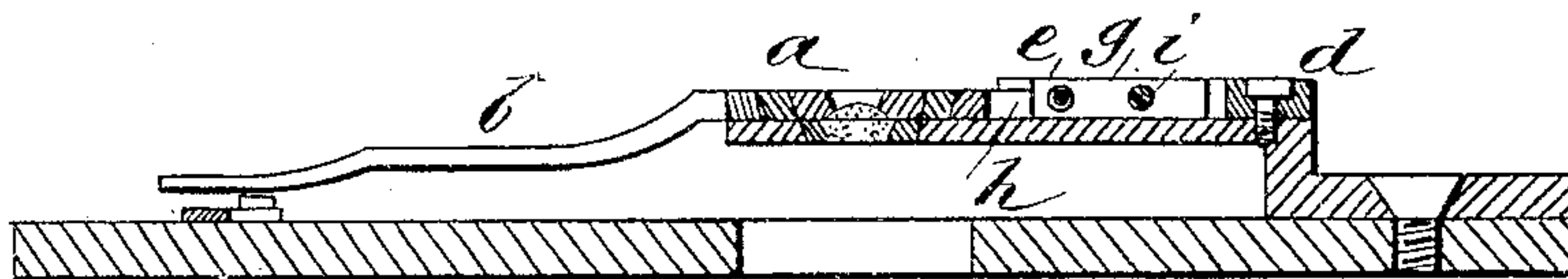


Fig. 3



WITNESSES:

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UNITED STATES PATENT OFFICE.

SWEN P. SANDMARK, OF ISHPEMING, MICHIGAN.

WATCH-REGULATOR.

SPECIFICATION forming part of Letters Patent No. 318,208, dated May 19, 1885.

Application filed December 22, 1884. (No model.)

To all whom it may concern:

Be it known that I, SWEN P. SANDMARK, of Ishpeming, in the county of Marquette and State of Michigan, have invented a new and
5 Improved Watch-Regulator, of which the following is a full, clear, and exact description.

The invention consists of the combinations of parts and their construction, substantially as hereinafter fully set forth and claimed.

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

Figure 1 is a plan view in enlarged size of
15 a watch plate and regulator with my improvements. Fig. 2 is a cross-section on the line *x x*, Fig. 1. Fig. 3 represents the adjusting-screw in larger size, one head being in section.

The ring or collar *a* is provided with index-
20 arms *b*, and mounted upon the bridge *c*, all as usual. Upon the bridge *c* is attached a light frame, *d*, of fork shape, and through the forked ends of this frame passes the screw *e*, having a slotted head of the usual character upon one of
25 its ends, and fitted at the opposite end with a sleeve or collar, *f*, which is slotted, so as to form a head at that end also, and the two heads, taking against the forks of the frame, prevent any end movement of the screw.

30 *g* is a slide fixed upon the screw having its inner end slotted or split to pass upon the lug or projection *h* of the ring *a*.

Across the frame *d* is a cross bar or pin, *i*, that extends loosely through the end of the

slide-piece *g*, so as to form a guide therefor and 35 prevent any tipping or side movement of the slide-piece when it is moved by the screw. By turning the screw *e* the piece *g* is moved in one direction or the other in a straight line, and by its engagement with the lug *h* causes the 40 movement of the ring *a* and arm *b*, which are connected with the balance-spring in the usual manner. The connection between the piece *g* and the ring *a* not being rigid, the slide-piece is free to move in a line parallel with 45 the screw, and at the same time give the necessary movement to the regulator.

This device is ornamental, besides being more reliable for fine adjustment than when the movement is given in one direction by a 50 spring, as is usually the case.

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

1. In a regulator for watches, the combina- 55 tion, with the ring of the regulator having a lug, of the split slide-piece, and the forked frame having the screw with heads bearing upon said frame, substantially as and for the purpose set forth. 60

2. In a watch-regulator, the combination of the forked frame *d*, the cross-bar *i*, the double-headed screw *e*, and the slide *g*, substantially as shown and described.

SWEN P. SANDMARK.

Witnesses:

ALEX. STROM,
CONRAD CARLSON.