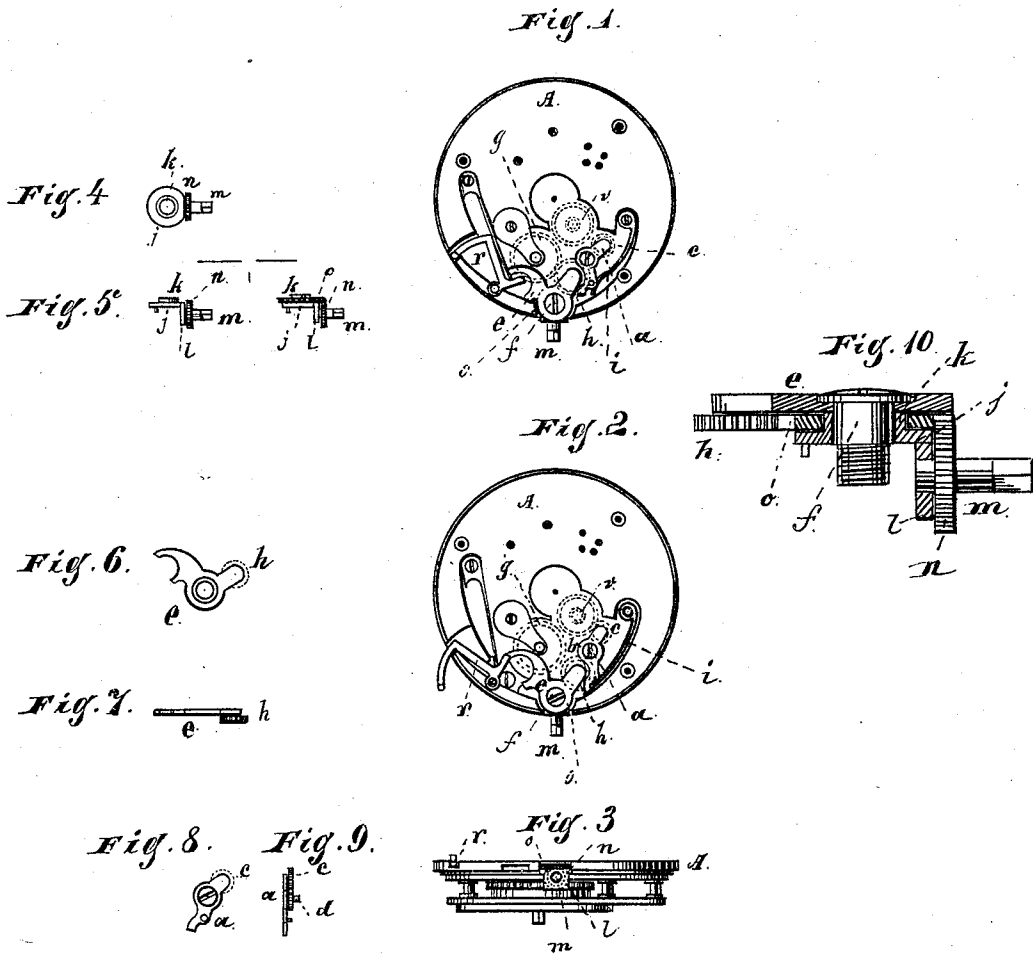


(Model.)

J. W. HURD.
STEM WINDING WATCH.

No. 250,148.

Patented Nov. 29, 1881.



Witnesses:
A. H. Adams,
A. T. Bruns.

Inventor:
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UNITED STATES PATENT OFFICE.

JOSEPH W. HURD, OF ROCKFORD, ILLINOIS, ASSIGNOR TO THE ROCKFORD WATCH COMPANY, OF SAME PLACE.

STEM-WINDING WATCH.

SPECIFICATION forming part of Letters Patent No. 250,148, dated November 29, 1881.

Application filed March 21, 1881. (Model.)

To all whom it may concern:

Be it known that I, JOSEPH W. HURD, residing at Rockford, in the county of Winnebago and State of Illinois, and a citizen of the United States, have invented new and useful Improvements in Stem-Winding Watches, of which the following is a full description, reference being had to the accompanying drawings, in which—

Figure 1 is a view showing the pillar-plate and parts connected therewith, the small wheel which acts in setting the hands being disengaged from the train. Fig. 2 is a similar view, showing such setting-wheel engaged with the train. Fig. 3 is an edge view. The remaining figures, from 4 to 10, inclusive, are details.

The object of my invention is to provide simple and efficient means for setting the hands of a watch; and this object I accomplish by the mechanism illustrated in the accompanying drawings, which I will now proceed to describe in detail, afterward specifically pointing out the improvements in the claims.

In the drawings, A represents the pillar-plate.

a is a lever or bar pivoted to the pillar-plate at *b*; but between it and such plate there is room for wheels.

c is a small wheel upon the under side and inner end of the lever *a*.

d is a small wheel upon the pivot of the lever *a*, which wheel *d* engages with the wheel *c*.

e is a yoke pivoted upon the screw *f*.

h is a wheel at one end of this yoke, which wheel engages with the wheel *d* at all times. It also engages with the winding-wheel *g* when the parts are in the position shown in Fig. 1.

r is a lever which operates the yoke *e*. *i* is a spring.

j is a small plate, having a hub, *k*, on the top thereof, and a flange, *l*, at right angles to such plate.

m is the winding-stem, which carries a pinion, *n*. The stem is inserted in a hole in the flange *l* and held therein by a screw on the inside of the flange, but so that the stem can rotate.

o is a wheel which is placed upon the hub *k* on the plate *j*. The yoke *e* rests on the top of

this hub. The plate *j* and yoke *e* are both held in place by the screw *f*, and the wheel *o* is between the plate *j* and yoke *e*, and engages with the wheel *h*, which is carried by the yoke *e*.

In use the parts will ordinarily be in the position shown in Fig. 1, ready for winding, the wheel *h* being engaged with the winding-wheel *g*. In this position the hands cannot be set, because the wheel *c* is disengaged from the train.

By means of the lever *r* one end of the yoke *e* can be made to act upon the lever or bar *a*, bringing the parts into the position shown in Fig. 2, in which the wheel *c* will be engaged with the wheel *v*, and by turning the stem *m* the hands can be set. On returning the lever *r* to its former position the action of the spring *i* will disengage the wheel *c* from *v* and cause the wheel *h* to engage with the winding-wheel *g*.

The plate *j*, with its hub and flange, furnish a very compact device, having two bearings, one for the pinion *n* in the flange, the other being the hub *k*, which receives the wheel *o*.

I do not limit myself to the exact devices shown for operating the lever or arm *a*, as the same may be modified, both as to form and arrangement.

The wheel *v* engages with the cannon-pinion, which is not shown in the drawings.

What I claim as new, and desire to secure by Letters Patent, is as follows:

1. In a stem-winding watch, the combination of the pivoted swinging lever *a*, provided with the wheels *d* and *c*, which engage each other, with the wheels *v* and *g* and the pivoted oscillating yoke *e*, provided with the wheels *h*, engaging the wheel *d* on the swinging lever, said members being organized for operation substantially as and for the purpose described.

2. The plate *j*, provided with a hub, *k*, to receive the crown-wheel *o*, and a flange, *l*, forming a bearing for the winding pinion or stem of a stem-winding watch, substantially as and for the purposes specified.

JOSEPH W. HURD.

Witnesses:

HOSMER P. HOLLAND,
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