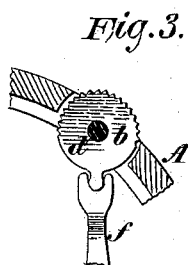
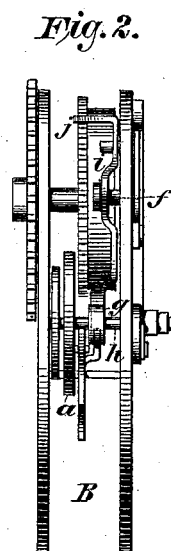
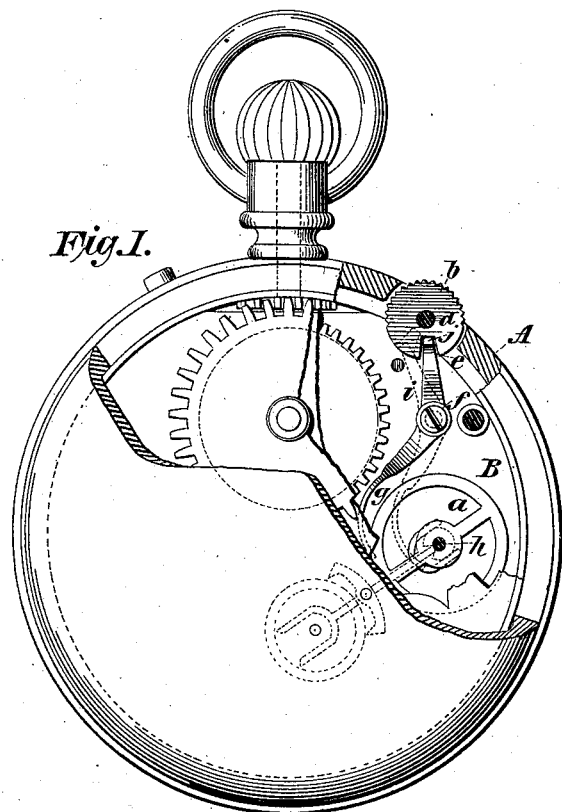


(No Model.)

E. KUHN.
STOP WATCH.

No. 383,059.

Patented May 15, 1888.



WITNESSES:
Gustave Dietrich
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INVENTOR:
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UNITED STATES PATENT OFFICE.

EDMOND KUHN, OF BROOKLYN, ASSIGNOR TO THE MANHATTAN WATCH COMPANY, OF NEW YORK, N. Y.

STOP-WATCH.

SPECIFICATION forming part of Letters Patent No. 383,059, dated May 15, 1888.

Application filed August 4, 1887. Serial No. 246,114. (No model.)

To all whom it may concern:

Be it known that I, EDMOND KUHN, of Brooklyn, Kings county, New York, have invented certain new and useful Improvements in Stop-Watches, of which the following is a full, clear, and exact description.

My invention relates to that class of watches in which a lever is brought to bear upon a wheel or arbor to stop the movement of the hands; and it has for its object to provide improved means for operating said lever.

The invention consists in the combination, with a lever carried by a watch-movement and adapted to bear upon a wheel or arbor in said movement, of a wheel or disk carried by the watch-case, adapted to engage one end of said lever to operate same, as will be more fully hereinafter set forth.

Reference is to be had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a view of the back of a watch, partly in section, showing my improvement in position. Fig. 2 is an edge view of the movement, and Fig. 3 is a diagram of a modification of the invention.

Heretofore in the class of watches to which this relates the lever for stopping the movement of the hands was operated by a push-pin carried by the case. To operate this pin required an awkward movement of the finger, and yet the action of the lever was not always positive. By my invention I produce a positive movement of the lever with comparative ease.

In the accompanying drawings, A represents a watch-case, and B a movement having a suitable train of gearing for moving the hands in the well-known manner.

b is a wheel or disk pivoted in the case A, as at d. The wheel b extends slightly over the inner and outer circumference of the case A, as shown. The wheel b has a recess or notch, e, in its inner part, and preferably a milled or roughened outer part, as shown.

f is a lever pivoted in the movement B. In the drawings the arm g of said lever f is shown adapted to bear upon the arbor h of the balance-wheel a to stop the movement; but it is evident that it may bear upon any desired arbor or wheel to stop any wheel or any set of wheels in the train. The arm i of said lever

carries a lug or arm, j, which is adapted to enter the notch e in the wheel b when the movement B is in the case.

To place the movement in a case or to remove it therefrom, it is not necessary to first remove the wheel b, as is the case with a push-pin; but the movement B may be readily slipped in the case, the wheel b passing between the front and back plates of the movement.

Fig. 1 shows the position the parts assume when the movement is in the case, the lug j having entered the notch e in the wheel b. When the lever f is in the position shown by full lines in Fig. 1, the wheels of the movement are free to revolve. To stop the watch, the wheel b is turned to move the notch e, and thereby the lever f, into the position shown in dotted lines. This causes the arm g of said lever to bear upon the arbor h, or upon a hub on said arbor, which immediately stops the movement. To start the wheels, the wheel b is turned so as to move the arm g away from contact with the arbor h. The parts will then assume the position shown in full lines. The movement of wheel B is easily effected and is very positive in its action, insuring a certain stoppage of the hands. It is evident that if the wheel b were pivoted in the movement so as to engage the lever f the same purpose would be accomplished; also, the wheel b could have a projection to engage the recessed end of the lever f, as in Fig. 3, without departing from the spirit of my invention.

Having now described my invention, what I claim is—

1. In a watch, the combination, with the stop-lever carried by a movement adapted to bear upon a wheel or arbor in said movement, of the wheel b, adapted to engage said lever to operate same by turning said wheel, substantially as described.

2. The lever f, carried by the movement B and adapted to engage a wheel or arbor in said movement, in combination with the wheel b, pivoted in the case A of the watch and adapted to engage said lever to operate same, substantially as herein shown and described.

EDMOND KUHN.

Witnesses:

GUSTAV SCHNEPPÉ,
T. F. BOURNE.