

(No Model.)

W. W. OWEN.
WATCH REGULATOR.

No. 336,060.

Patented Feb. 9, 1886.

Fig. 1.

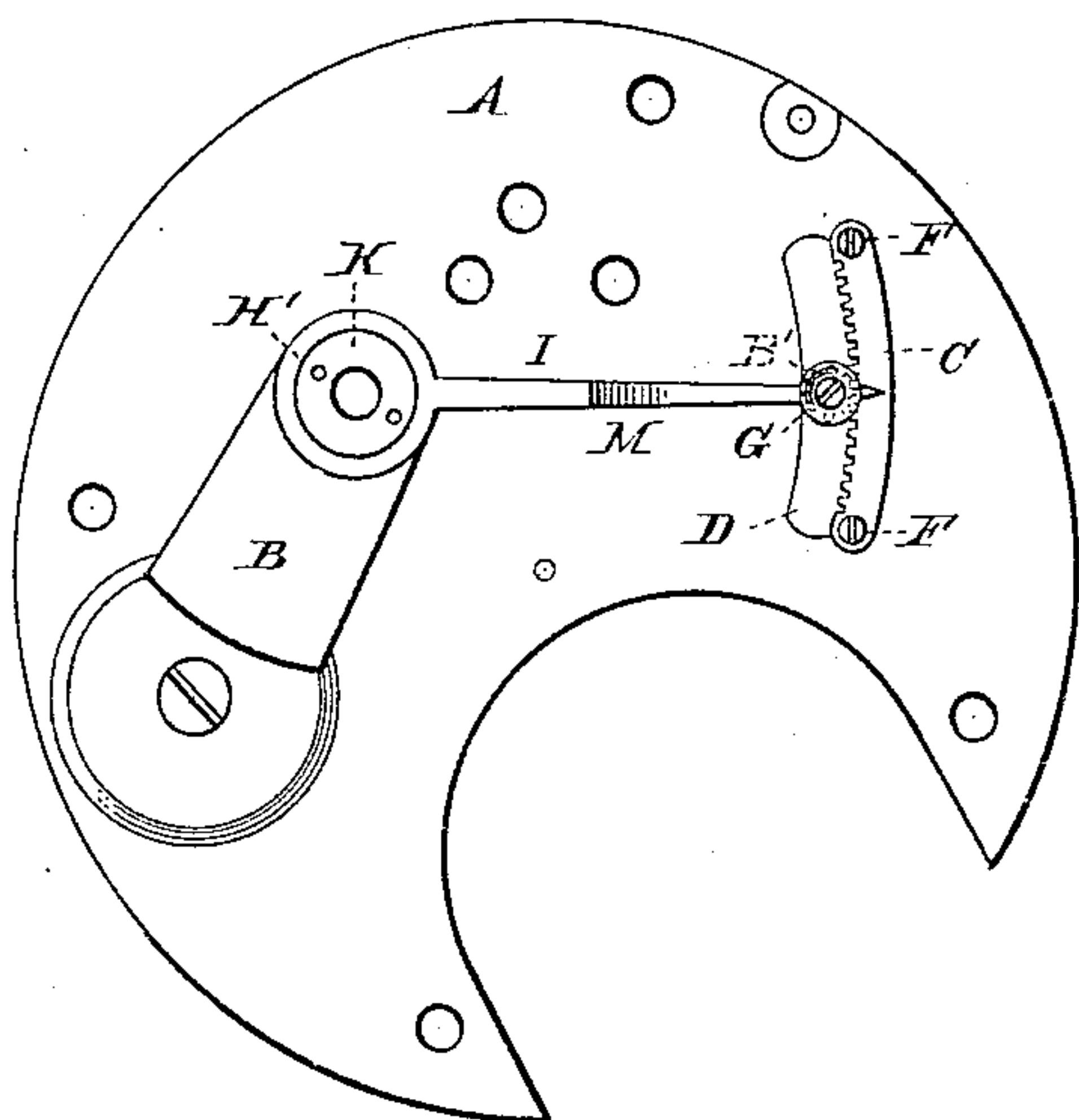


Fig. 3.

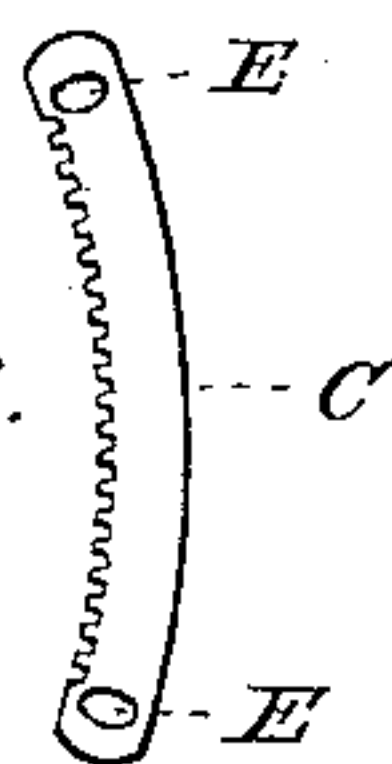
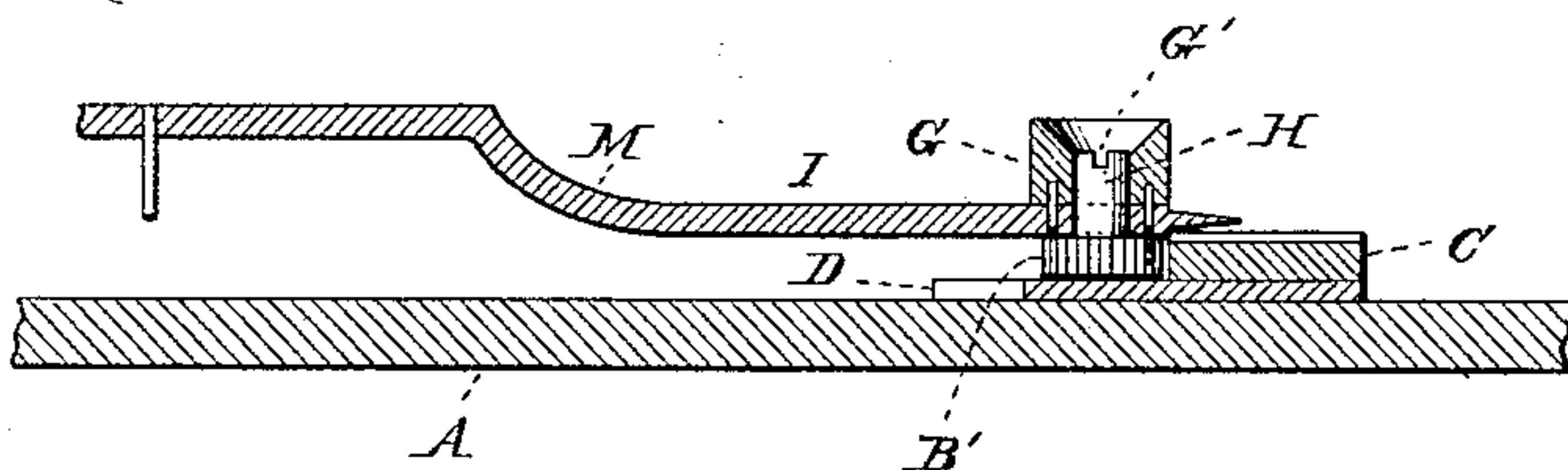


Fig. 2.



WITNESSES

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INVENTOR

W. W. Owen.
by Anderson & Smith
his ATTORNEYS

UNITED STATES PATENT OFFICE.

WALTER W. OWEN, OF COLUMBUS, OHIO, ASSIGNOR TO THE COLUMBUS
WATCH COMPANY, OF SAME PLACE.

WATCH-REGULATOR.

SPECIFICATION forming part of Letters Patent No. 336,060, dated February 9, 1886.

Application filed August 27, 1885. Serial No. 175,485. (No model.)

To all whom it may concern:

Be it known that I, W. W. OWEN, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Watch-Regulators; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of plan view of my regulator. Fig. 2 is a detail section of the regulating-lever. Fig. 3 is a view of the arc-shaped toothed plate.

My invention relates to watch-regulators; and it consists in the construction and novel combination of parts, as will be hereinafter fully described, and particularly pointed out in the claim.

Referring by letter to the accompanying drawings, A designates the top plate, and B the balance-bridge. C indicates the index-plate, which is in the form of an arc and is serrated or toothed on its inner edge and upper face, and is provided with oval-shaped holes E near each end for the securing-screws F, which hold it to place. Next to the shorter side of the arc-shaped index-plate C is a plane or smooth plate, D, upon which a pinion, B', travels when the regulator is being adjusted either to the right or to the left, as may be necessary. The pinion B' has a fixed stem or post, H, which passes through the journal G at the outer end of the arm I, and has a groove, G' in its head for a screw-driver or other instrument by which it is to be turned either to

the right or left, as may be necessary to regulate the watch-movement. The eye H' at the rear end of the regulating lever or arm I is seated on a ring-seat, K, in the upper face of the balance-bridge at its inner or forward end. The regulating-lever I has a downward bend, M, intermediate of its ends to bring the pinion down far enough to permit its engagement with the serrated or toothed arc. By this construction the regulator cannot be accidentally shaken from the point to which it has been adjusted. The adjustment may be very accurately made. The interposed plate prevents the pinion from scratching the top plate when the adjustment is made, and the adjustment can be more accurately made than it may be done in the constructions heretofore employed.

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

The combination, with the top plate of a watch, of an arc-shaped plate having elongated slots at opposite ends and an inner toothed edge, a plain plate arranged beneath the toothed plate and extended to form a bearing for the pinion, the pivoted regulator-arm, and the pinion having an integral post or stem passing through the outer end of the regulator-arm, and provided with means at its upper end whereby the said pinion may be turned, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

WALTER W. OWEN.

Witnesses:

PHILLIP H. WHEELER,
W. J. SAVAGE.