

(No Model.)

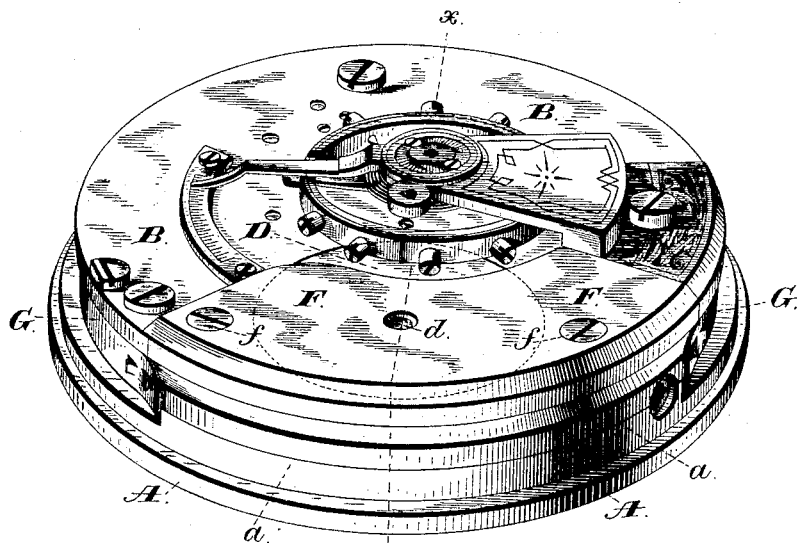
2 Sheets—Sheet 1.

G. HUNTER.  
WATCH MOVEMENT.

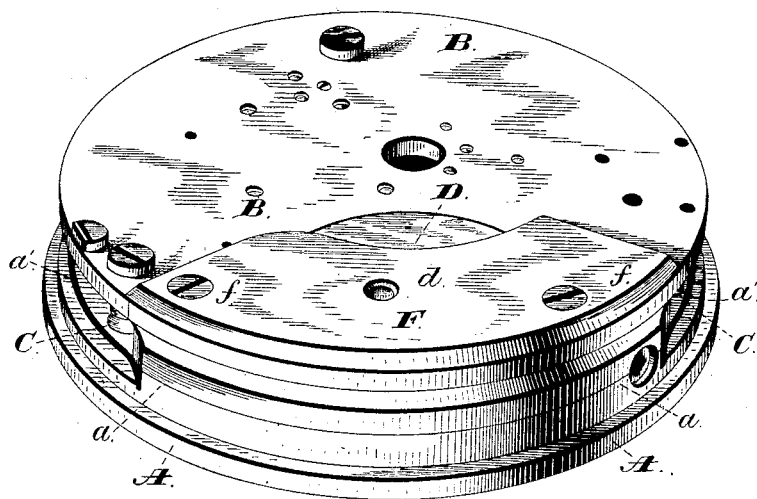
No. 347,272.

Patented Aug. 10, 1886.

*Fig. 1.*



*Fig. 2.*



*Witnesses:*

*Jas. C. Hutchinson.*  
*Henry C. Hazard.*

*Inventor.*

*Geo. Hunter, by*  
*Prindle & Russell, his attys.*

(No Model.)

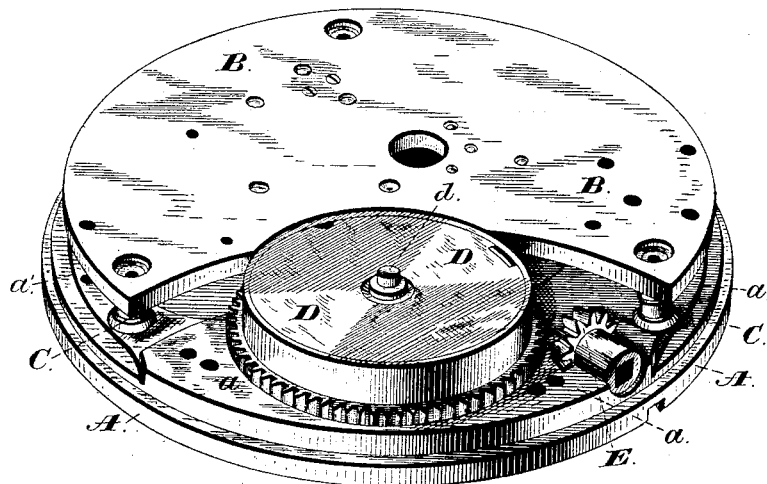
2 Sheets—Sheet 2.

G. HUNTER.  
WATCH MOVEMENT.

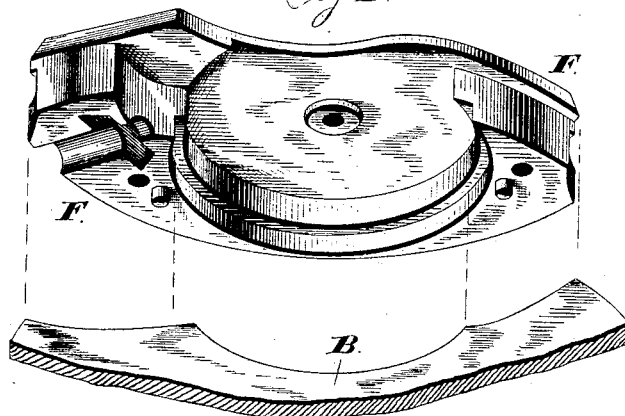
No. 347,272.

Patented Aug. 10, 1886.

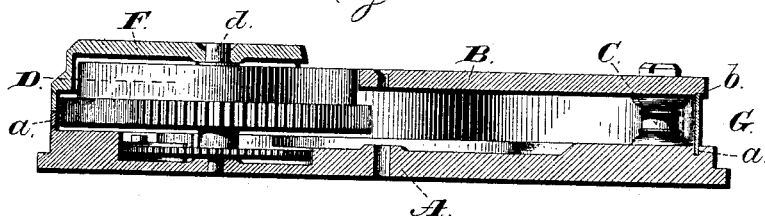
*Fig. 3.*



*Fig. 4.*



*Fig. 5.*



Witnesses:  
Jas. C. Hutchinson.  
Henry L. Hazard.

Inventor:  
Geo. Hunter, by  
Crindle & Russell, his Attys.

# UNITED STATES PATENT OFFICE.

GEORGE HUNTER, OF ELGIN, ASSIGNOR TO THE ELGIN NATIONAL WATCH COMPANY, OF CHICAGO, ILLINOIS.

## WATCH-MOVEMENT.

SPECIFICATION forming part of Letters Patent No. 347,272, dated August 10, 1886.

Application filed March 4, 1886. Serial No. 194,006. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE HUNTER, of Elgin, in the county of Kane, and in the State of Illinois, have invented certain new and useful Improvements in Watch-Movements; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which—

10 Figure 1 is a perspective view from the rear side of a watch-movement containing my improvements. Fig. 2 is a like view of the same with the dust bands or strips removed. Fig. 3 is a perspective view of the movement-plates and barrel with the barrel-bridge removed. 15 Fig. 4 is a like view from the inner sides of said bridge and the adjacent portion of the pillar-plate, and Fig. 5 is a section upon line *xx* of Fig. 1.

20 Letters of like name and kind refer to like parts in each of the figures.

The design of my invention is to simplify the construction, to lessen the expense, and to increase the strength and durability of 25 watch-movements; to which end said invention consists, principally, in a watch-movement in which the barrel-bridge extends to and is secured directly upon the pillar-plate, substantially as and for the purpose hereinafter specified. 30

It consists, further, in a watch-movement in which the barrel-bridge is secured to and supported entirely by the pillar-plate, substantially as and for the purpose hereinafter shown. 35

It consists, further, in a watch-movement in which the barrel-arbor is in part journaled within a bridge that is disconnected from and independent of the top plate, substantially as 40 and for the purpose hereinafter set forth.

It consists, further, in a watch-movement in which the barrel-arbor and winding-pinion are in part journaled within a bridge that is secured directly to the pillar-plate, substantially as and for the purpose hereinafter shown and described. 45

It consists, further, in a watch-movement in which the barrel-arbor and winding-pinion are journaled within and between the pillar-plate and a bridge that is entirely independ- 50

ent of the top plate, substantially as and for the purpose hereinafter specified.

It consists, finally, in the combination of the pillar-plate, the top plate, the barrel-bridge, and the dust-bands, substantially as and for 55 the purpose hereinafter shown.

In the annexed drawings, A represents the pillar-plate, and B the top plate, of a watch-movement, which plates are connected together and held in relative positions by means 60 of pillars C, all in the usual manner. About one-third of the top plate, B, is removed at the points where the barrel D and the winding-pinion E are located, and for a corresponding area the inner face of the pillar-plate A is 65 raised, so as to give to the latter at such point about one-fourth greater thickness than is had by the remainder of said plate.

Fitting into and substantially filling the space left by the removal of a part of the top 70 plate, B, is a bridge, F, which extends to and fits upon the raised part *a* of the plate A, and is secured thereon by means of two screws, *f*. Said bridge incloses the barrel D, and furnishes a bearing for one end of its arbor *d*. It 75 also incloses the winding-pinion E, and in connection with said raised part furnishes a bearing for the same. The outer side of said bridge has its ends preferably extended slightly over the adjacent portions of said top 80 plate; but such projections may, if desired, be omitted.

As the bridge is secured directly to the pillar-plate, it will be seen that it possesses a maximum of solidity and strength, and that it 85 is impracticable for either of the parts journaled within or between said bridge and plate to get out of place, as is often done in movements of usual construction. In addition to such advantages in the construction shown 90 said barrel-bridge is entirely independent of the top plate, and enables the barrel to be removed and replaced without disturbance of any other portion of the train. By causing the one bridge to journal both the barrel-arbor and winding-pinion the use of one bridge, 95 with its screws, is avoided, and a much better bearing is secured for said pinion than would otherwise be practicable.

The inner face of each of the plates A and 100

B is provided near its edge with a narrow groove, *a'* and *b*, respectively, which terminates at each end of the bridge F in an outward curve; and into such grooves are slipped  
5 two thin strips of metal, G, that meet or overlap each other at the opposite side of the movement and operate to effectually close the opening between the edges of said plates, so as to exclude dust from the train.

10 Having thus described my invention, what I claim is—

1. A watch-movement in which the barrel-bridge extends to and is secured directly upon the pillar-plate, substantially as and for the  
15 purpose specified.

2. A watch-movement in which the barrel-bridge is secured to and supported entirely by the pillar-plate, substantially as and for the purpose shown.

20 3. A watch-movement in which the barrel-arbor is in part journaled within a bridge that is disconnected from and independent of the top plate, substantially as and for the purpose set forth.

4. A watch-movement in which the barrel- 25 arbor and winding-pinion are in part journaled within a bridge that is secured directly to the pillar-plate, substantially as and for the purpose shown and described.

5. A watch-movement in which the barrel- 30 arbor and winding-pinion are journaled within and between the pillar-plate and a bridge that is entirely independent of the top plate, substantially as and for the purpose specified.

6. The combination of the pillar-plate, the 35 top plate, the barrel-bridge, and the dust-bands, substantially as and for the purpose shown.

In testimony that I claim the foregoing I have hereunto set my hand this 29th day of 40 December, 1885.

GEORGE HUNTER.

Witnesses:

W. H. CLOUDMAN,  
W. P. HEMMENS.