(No Model.)

E. K. BOYD.

WATCH CASE.

No. 362,712. Patented May 10, 1887.

Fig. 1.



Fig. 2.

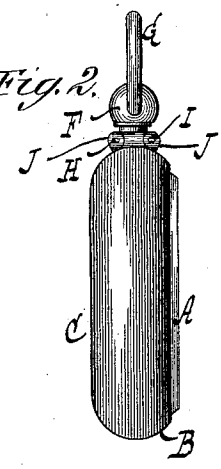


Fig. 3.

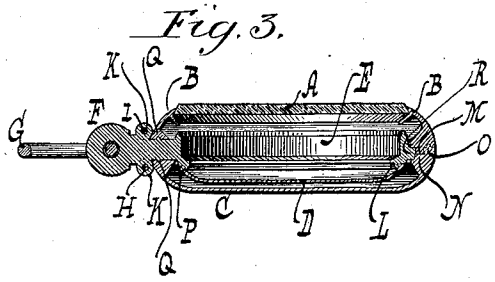


Fig. 5.

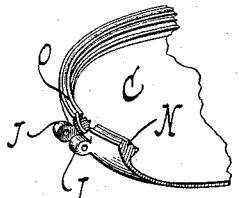


Fig. 4.

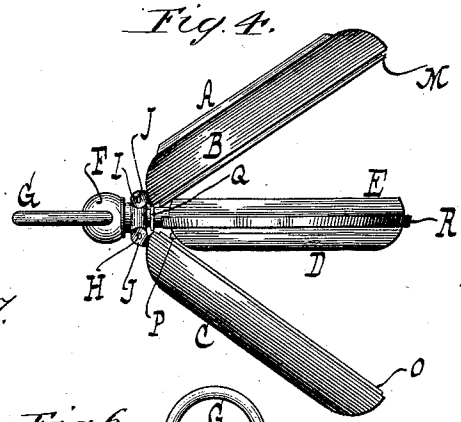


Fig. 8.

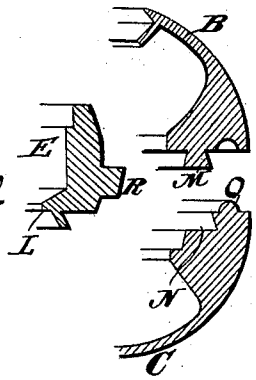


Fig. 7.

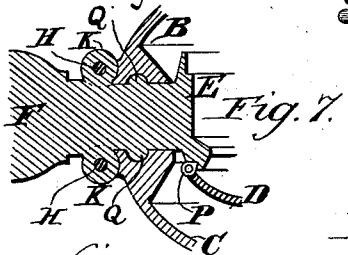
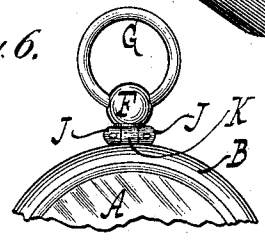


Fig. 6.



Witnesses.

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UNITED STATES PATENT OFFICE.

EDWARD K. BOYD, OF CHICAGO, ILLINOIS.

WATCH-CASE.

SPECIFICATION forming part of Letters Patent No. 362,712, dated May 10, 1887.

Application filed December 2, 1886. Serial No. 220,479. (No model.)

To all whom it may concern:

Be it known that I, EDWARD K. BOYD, a subject of the Queen of Great Britain, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Watch-Cases, of which the following is a specification.

This invention relates to an improvement in watch-cases, as fully set forth in the following specification and claims, and illustrated in the accompanying drawings, in which—

Figure 1 is a face view of a watch-case. Fig. 2 is an edge view of a watch-case. Fig. 3 is a side elevation in section of a watch-case. Fig. 4 is a side elevation of a watch-case opened. Fig. 5 is a detail view of part of the back of a watch-case. Fig. 6 is a detail view of a modification. Fig. 7 is a detail section, enlarged, through the axis of the pendant and including a portion of the bezel and back. Fig. 8 is a detail section, enlarged, showing the peculiar construction of the bezel, back, and center, the section being taken on the side of the case opposite to that shown in Fig. 7.

Similar letters indicate corresponding parts.

A is the glass or crystal of the watch-case, through which the dial and hands of the watch can be seen. The glass is held in place by a ring, B, commonly called the "bezel."

C is the back of the watch-case.

D is the rear cover for the works of the watch, and E is the center or movement ring.

F is the stem or pendant of the watch, and G is a ring attached to the stem or pendant.

The bezel and back are hinged or pivoted to the pendant by pivots I H, passing through bearings, lugs, or shoulders J J and K. The lugs J J may be formed on the bezel and back and the lug K on the pendant, as indicated in Figs. 1 to 5, both inclusive; or the lugs J J may be formed on the pendant and the lug K on the back or bezel, as indicated in Fig. 6, where is shown the bezel formed with lug K.

When closed, as seen in Fig. 3, the back C and the bezel B strike against a rim or shoulder, R, on the center E. The back and bezel have suitable flanges for engaging the rim or shoulder R, as seen in Fig. 3. A tongue and groove, M N, on the bezel B and back C come into engagement with one another, Fig. 3, when the bezel and back are closed. By making the tongue M and groove N undercut they will firmly engage or snap into one another and hold the case closed.

A supplemental tongue, O, is also provided, and may be formed either on the back or on the bezel. In the drawings it is shown on the back C, and an engaging-groove for the supplemental tongue O is formed on the bezel.

Suitable tongues, Q, on the pendant engage suitable grooves on the back and bezel. These various grooves serve to hold the back and bezel in position, and also prevent the entrance of dust or foreign matter into the works of the watch.

The rear cover, D, is hinged or pivoted, as at P, to the center or pendant, and said rear cover engages a rim or ledge, L, on the center. By said various ledges, tongues, and grooves the works of the watch are protected against injury and against the entrance of dust and foreign matter.

By having the back and bezel pivoted to the pendant F instead of to the center, as heretofore, strong and durable hinges or pivots can be secured or formed, as said pendant is of a comparatively massive character and furnishes means for applying powerful hinges or holding devices. By having the back and bezel pivoted or hinged to the pendant, tongues and grooves—such as the tongues and grooves R M N O Q—can be formed to surround the back and bezel, so as to secure the advantage of such tongues and grooves unbrokenly and entirely around the back and bezel.

In the drawings are shown three sets of tongues and grooves—namely, the tongue R, with its engaging-groove, the tongue and groove M N, and the supplemental tongue O and its engaging-groove.

By having the pivot or hinge P for the rear cover, D, placed near to the hinge of the back C, said rear cover, D, will swing in the same direction as the back C when being opened or closed. In the drawings, the back, bezel, and rear cover all being hinged at or near the pendant, said back, bezel, and rear cover swing toward the pendant when being opened, as indicated in Fig. 4.

Of course, if desired, only the back C can be hinged to the pendant, and the bezel might be otherwise secured—as, for example, said bezel might be left unhinged and be held in place merely by engagement of the tongues

and grooves of said bezel with corresponding grooves and tongues on the back or on the center.

As seen in Figs. 2 and 3, when the watch-case is closed the bezel and back overlap or completely inclose the center.

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

1. A watch-case provided with a back and bezel hinged or pivoted to the stem or pendant and provided with engaging tongues and grooves, substantially as set forth.

2. A watch-case provided with a back and bezel hinged or pivoted to the stem or pendant, and with a rear cover, D, hinged or pivoted near said stem or pendant, substantially as set forth.

3. The combination, with the stem or pendant F and the center E, of a bezel and back hinged or pivoted to the stem or pendant, said pendant being provided with tongues Q, and the bezel and back being grooved and tongued to engage said pendant and each other, substantially as described.

4. The combination, with a bezel having a tongue or groove, (one or more,) of a back having a groove or tongue (one or more) adapted to engage the tongue or groove on the bezel, substantially as set forth.

5. The combination, with a center, a back, and a bezel, of a tongue or ledge on the center, grooves or recesses on the back and bezel adapted to engage the tongue or ledge on the center, and a tongue or groove (one or more) on the bezel adapted to engage a groove or tongue (one or more) on the back, substantially as set forth.

6. The combination, with a bezel having an undercut tongue or groove, of a back having an undercut groove or tongue adapted to engage the tongue or groove of the bezel, substantially as set forth.

7. The combination, with a pendant having tongues or grooves Q, of a back and a bezel having grooves or tongues adapted to engage the tongues or grooves Q, substantially as set forth.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

EDWARD K. BOYD. [L. S.]

Witnesses:

ADOLPH H. ZIMMERMANN,

WM. G. GRIMAS.