(No Model.)

D. GRUEN.

WATCH DUST BAND.

No. 361,625. Patented Apr. 19, 1887.

Fig. 1.

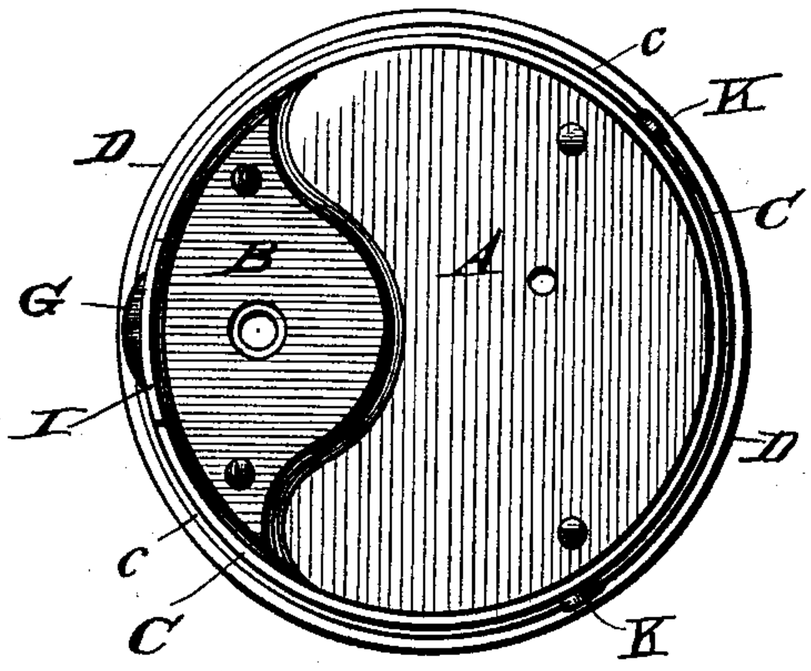


Fig. 2.

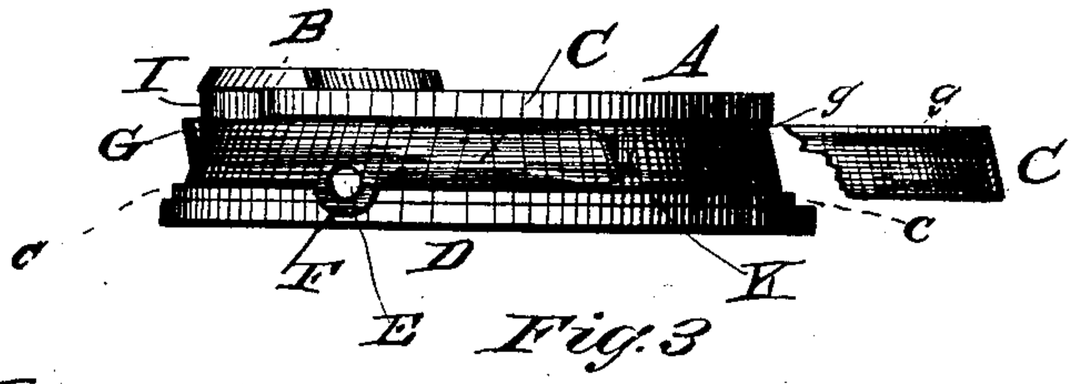
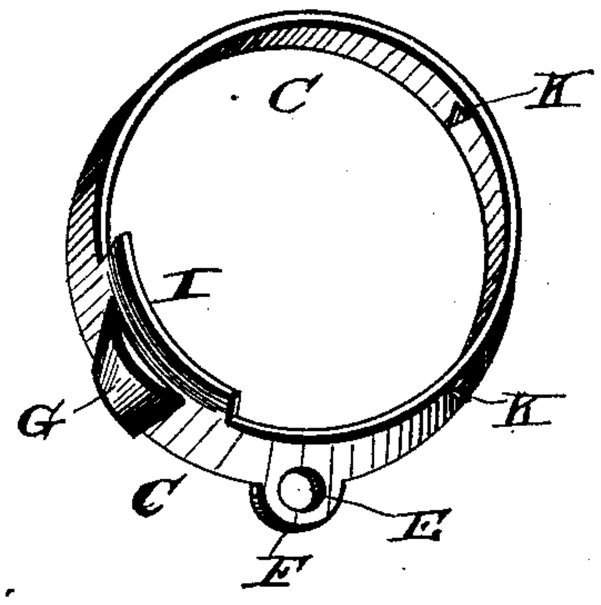


Fig. 3

Fig. 4.



WITNESSES

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WATCH DUST-BAND.

SPECIFICATION forming part of Letters Patent No. 361,625, dated April 19, 1887.

Application filed June 17, 1885. Serial No. 168,970. (No model.)

To all whom it may concern:

Be it known that I, DIETRICH GRUEN, 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 Dust-Bands; 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 a plan view of a top plate of a watch equipped with my improvement. Fig. 2 is a side elevation of the same. Fig. 3 is a plan view of the blank of the dust-ring. Fig. 4 is a perspective view of the ring complete.

This invention has relation to dust-bands for watches; and it consists in the construction and novel arrangement of devices, all as hereinafter set forth, and pointed out in the appended claims.

The object of the invention is to provide a seamless flexible bevel-edge dust-band of suitable form and adapted to spring over the top plate and barrel-bridge of the watch and engage under the same.

In the accompanying drawings, the letter A designates the top plate of the watch, and B the barrel-bridge. C is the dust-band, and D the pillar-plate, which is marginally rabbeted, as at *c*, to provide a bearing for the lower edge of the dust-band.

The dust-band is formed of thin flexible metal, and is made without seam, so that it will be of uniform size and will present a finished appearance. It is designed to cover in the side of the movement, and is conical or of less diameter at the top than at the bottom. The upper edge is beveled on the inside, as at *g*, in order to enable it to act promptly and easily in snapping over and engage under the edge of the top plate and barrel-bridge. The upper edge of the band is formed with an offset, I, which, when the dust-band is applied in position, fills the interval or opening left under the barrel-bridge, where the top plate is cut away. Below this offset the lower portion of the band is swaged outward, as at G, to provide room to clear the running barrel.

F indicates a lug on the lower edge of the band, which is provided with an opening, E, when used with a stem-wind movement, in order to prevent dust from entering around the stem-wind pendant.

K K are exterior lugs which are used in pressing the dust-band into position.

This band is designed to be used for open-face as well as hunting-case watches, the position of the offset and lug being properly arranged for the movement.

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

1. The seamless flexible bevel-edge dust-band having the upper edge offset, I, and the lower edge lug, F, substantially as specified.

2. The seamless flexible dust-band formed with the offset I, lower lug, F, and external lugs K, and having its upper edge internally beveled, substantially as specified.

3. In a watch, the combination, with the top plate and the dial-plate, of the flexible dust-plate flaring downwardly between the top plate and the dial-plate and fitting entirely under the top plate at its upper edge, the ring expanding sufficiently to permit it to be forced over the top plate, and then contracting to a position under the latter, substantially as set forth.

4. In a watch-movement, the combination, with the top plate and the dial-plate, of the flexible dust-ring flaring downwardly between the top plate and the dial-plate, formed with projections K K on the outside for seating it, and fitting entirely under the top plate at its upper edge, the ring expanding sufficiently to permit it to be forced over the top plate, and then contracting to a position under the latter, substantially as specified.

5. In a watch-movement, the combination, with the top plate provided with a barrel-bridge and the dial-plate, of the flexible dust-ring flaring downwardly between the top plate and the barrel-bridge, and the dial-plate formed with the embossed projection G, for clearing the barrel and fitting entirely under the top plate and barrel-bridge at its upper edge, the ring expanding sufficiently to permit it to be forced over the top plate, and then contracting to a position under the latter and the bridge-piece, substantially as specified.

6. A dust-ring for watch-movements, formed with a tongue, F, having an opening therein for the winding-stem, substantially as specified.

7. In a watch-movement, the combination, with the top plate, the dial-plate having a recess, a flexible dust-ring having a tongue, F, formed with an opening for the winding-stem, substantially as specified.

8. In a watch-movement, the combination of the top plate, a dial-plate having a recess, and a flexible dust-ring flaring downwardly between the top plate and the dial-plate, and formed with a tongue, F, fitting in the recess and having an opening for the winding-stem therein, the ring fitting entirely under the top plate at its upper edge, and being capable of expanding to pass the top plate and of contracting to a position under the latter, substantially as specified.

9. An integral dust-ring for watch-movements, formed of flexible material flaring downwardly, with an offset, I, an embossed barrel projection, G, seating projections K K, and a notch, X, substantially as specified.

10. A dust-ring for watch-movements, formed in one piece having a conical flange, C, vertical offset I, embossed projection G, seating projections K K, and tongue F, provided with an opening for the winding-stem.

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

DIETRICH GRUEN.

Witnesses:
M. SAY, JR.,
W. J. SAVAGE.