

No. 119,768.

Patented Oct. 10, 1871.

G. Hunt. Dust Excluder for Watches

Fig. 1.

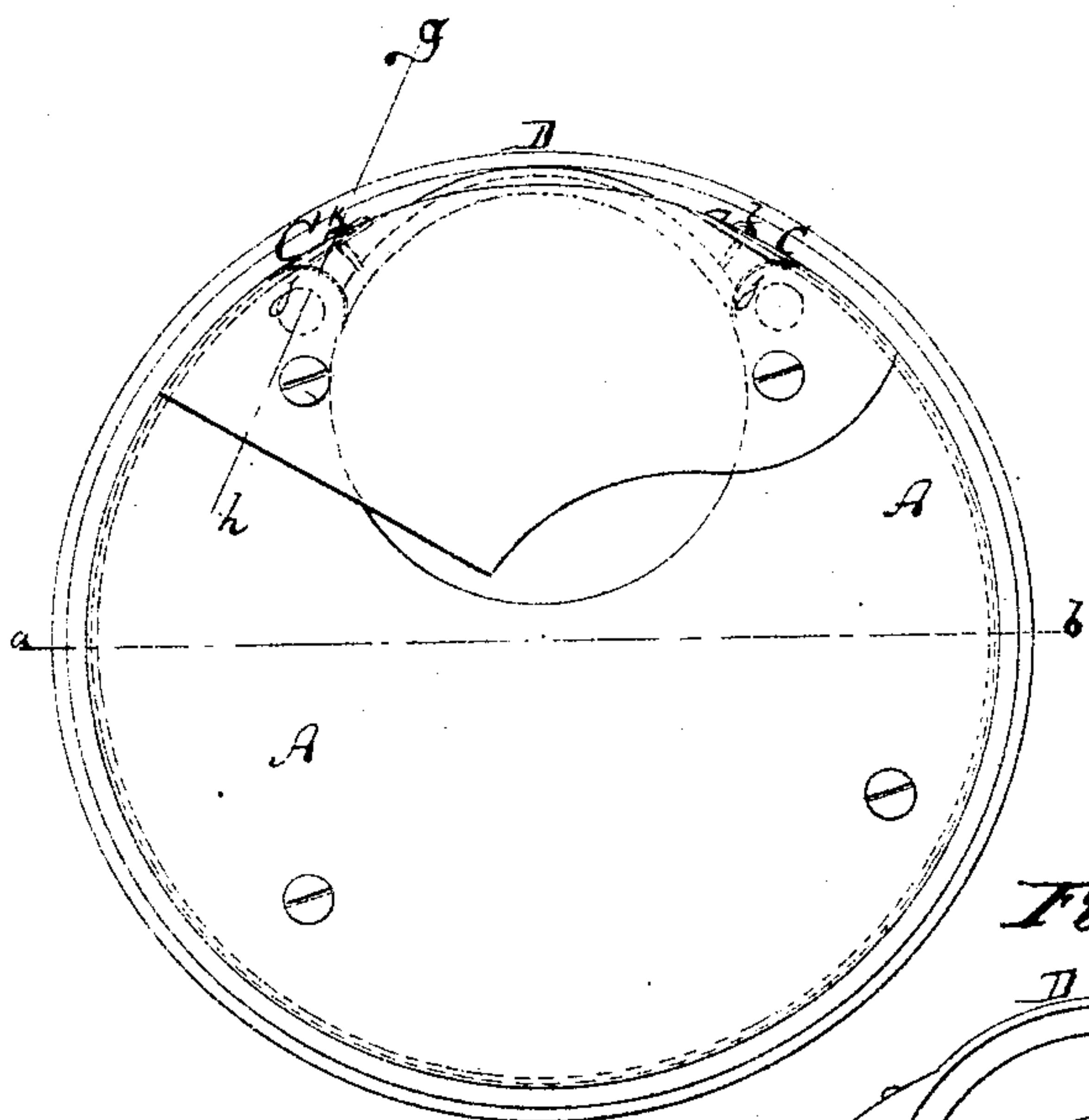


Fig. 2.

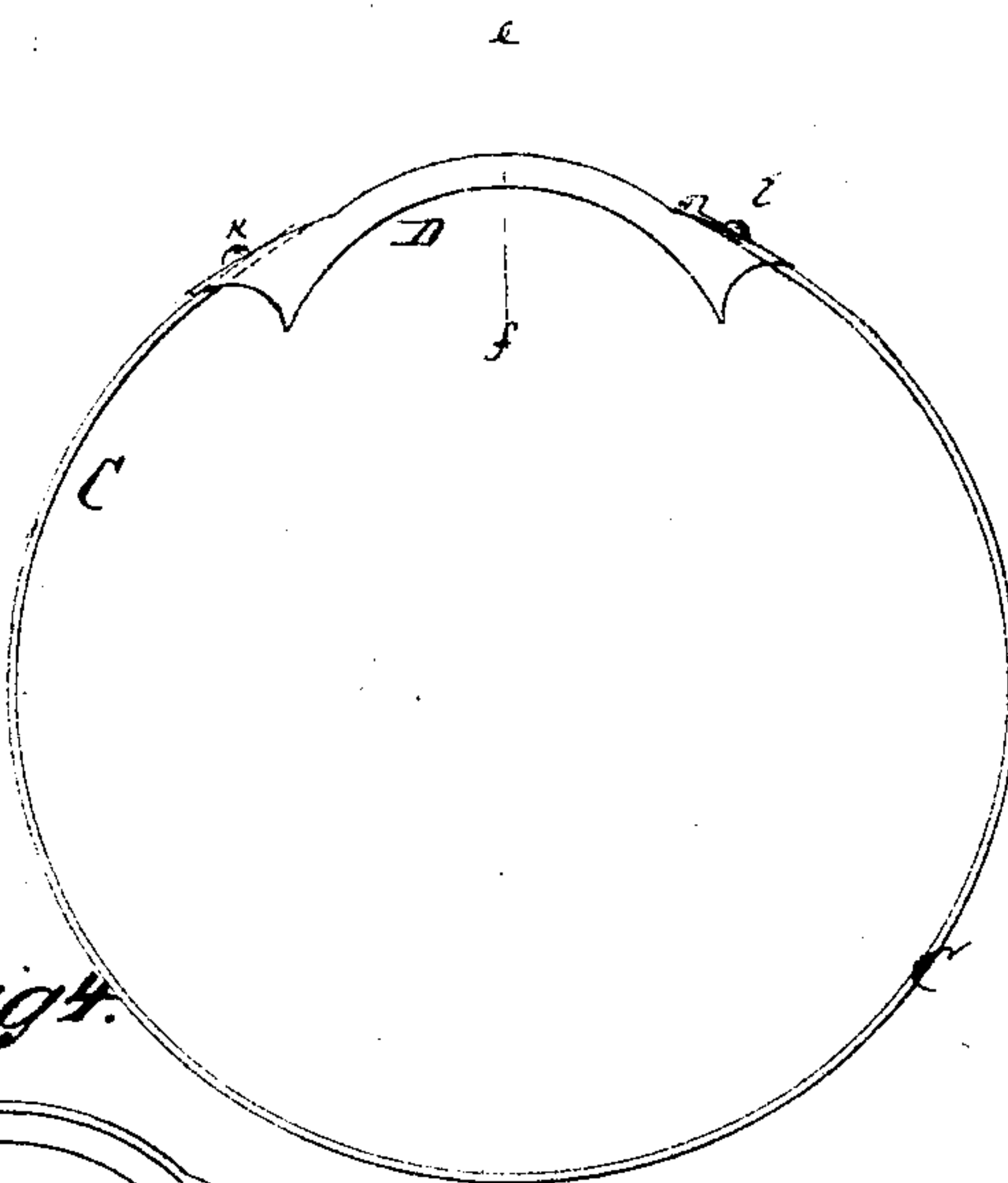


Fig. 4.

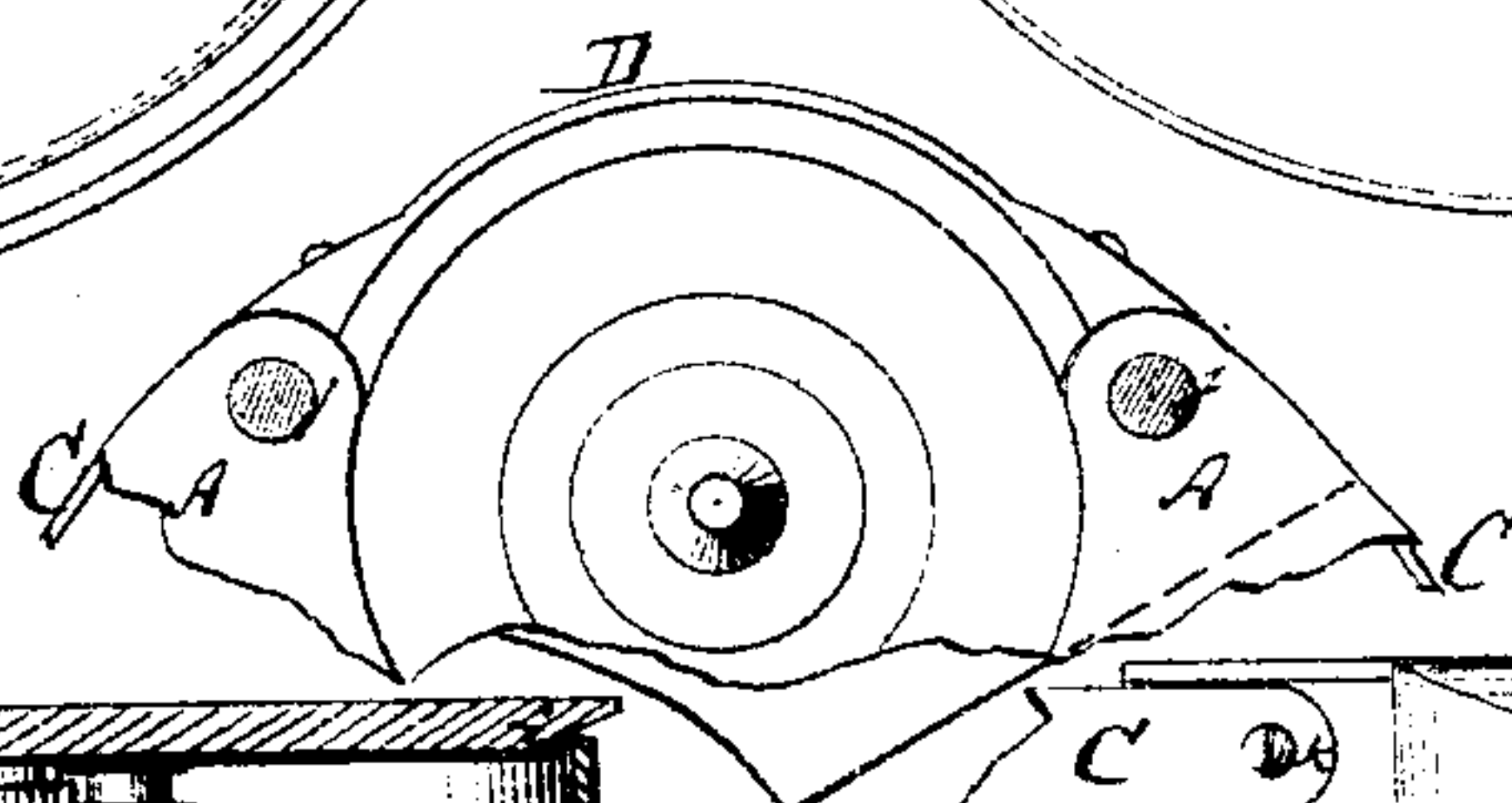


Fig. 3.

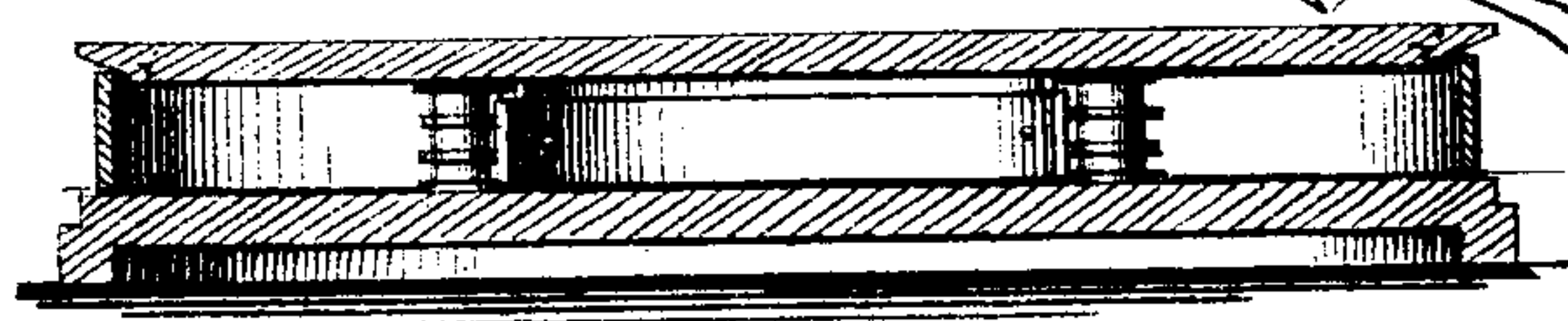


Fig. 5.



Fig. 6.



Fig. 7.

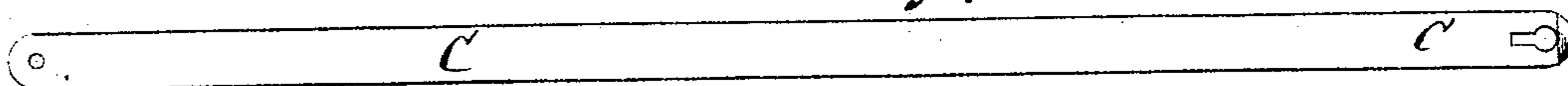


Fig. 8.

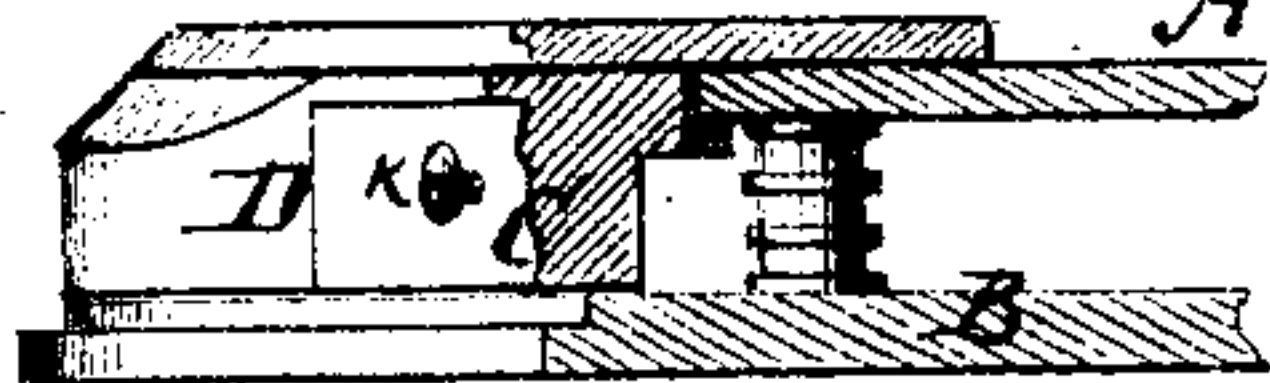
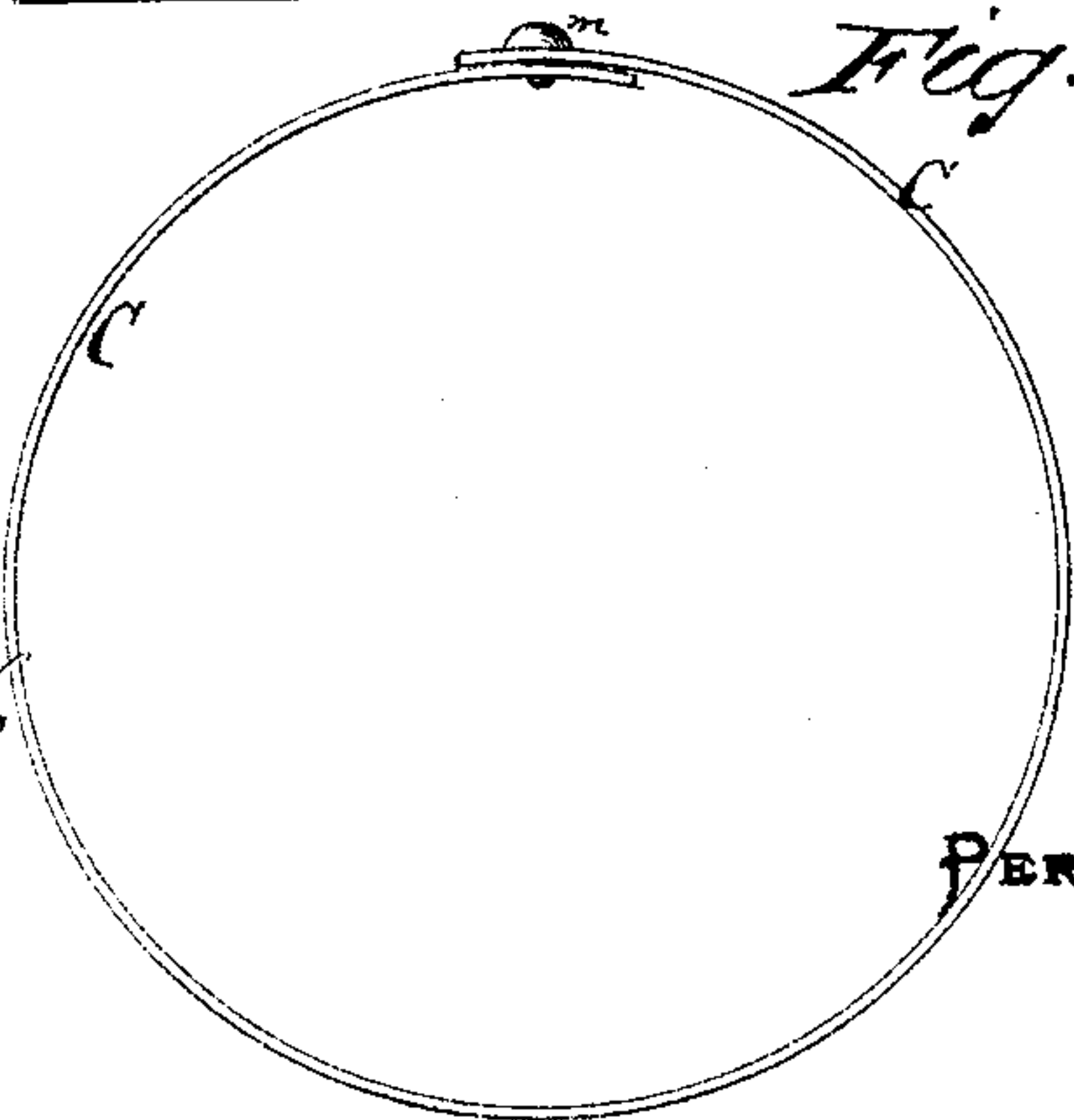


Fig. 9.



Witnesses:

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UNITED STATES PATENT OFFICE.

GEORGE HUNT, OF SPRINGFIELD, MASSACHUSETTS.

IMPROVEMENT IN DUST-RINGS FOR WATCHES.

Specification forming part of Letters Patent No. 119,768, dated October 10, 1871.

To all whom it may concern:

Be it known that I, GEORGE HUNT, of Springfield, in the county of Hampden and State of Massachusetts, have invented a new and Improved Dust-Excluder for Watches; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 represents a plan or top view of the inner frame of a watch provided with my improved dust-excluder. Fig. 2 is a top view of the dust-excluder. Fig. 3 is a central section of the same on the line *a b*, Fig. 1. Fig. 4 is a detail horizontal section of the same on the line *c d*, Fig. 3. Fig. 5 is a detail side view of the dust-excluder, showing the manner of fastening the ends. Fig. 6 is a transverse section of the same on the line *e f*, Fig. 2. Fig. 7 is a side view of the band-excluder, showing it extended. Fig. 8 is a detail transverse section on the line *g h*, Fig. 1. Fig. 9 is a top view of a dust-excluder of modified construction.

Similar letters of reference indicate corresponding parts.

This invention relates to a new dust-excluder to be applied to watches between the top and bottom plates of their works for the purpose of preventing impurities from entering the works. My invention consists in the improvement of the dust-excluders of watches, as hereinafter fully described and subsequently pointed out in the claim.

A in the drawing represents the top plate and B the bottom plate of the works of a watch. Between them is arranged the train of wheels in

ordinary or suitable manner. The under side of the top plate is beveled at the edge, the beveled portion extending to a shoulder, *i*, as is clearly shown in Fig. 3. C is the dust-excluder, made of a metallic spring-band, which is laid around the train so as to rest against the beveled portion of the top plate, or against a similar bevel of the bottom plate B, or both. The ends of the spring-band are either made to overlap, as in Fig. 9, or fastened to a cast arch, D, which is set between the top and bottom plates and bulged out to admit the protruding main wheel. This arched casting, plainly shown in Figs. 4 and 8, abuts with its rounded ends against the ends of ears *j j* formed on the top plate A, as shown. One end of the band C is secured to the cast arch D by a screw, *k*. The other end is slotted and fitted over a screw, *l*, projecting from D, as is clearly shown in Fig. 5, the screw *l* being tightened on the narrow part of the slot.

When the band is used alone, as in Fig. 9, the screw or connecting-pin *m* projects from one end through a slot in the other. The spring power of the band crowds it against the aforesaid bevel, and serves, therefore, to properly exclude the dust.

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

The movable spring-band C, combined with and arranged on the edge-beveled top plate A, as described, to crowd the band against the incline of the plate, form a self-closing wedge-joint, and thus more perfectly exclude the dust.

GEORGE HUNT.

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