

C. SPRINGER.
Watch Dust-Cap.

No. 77,848.

Patented May 12, 1868.

Fig. 1.

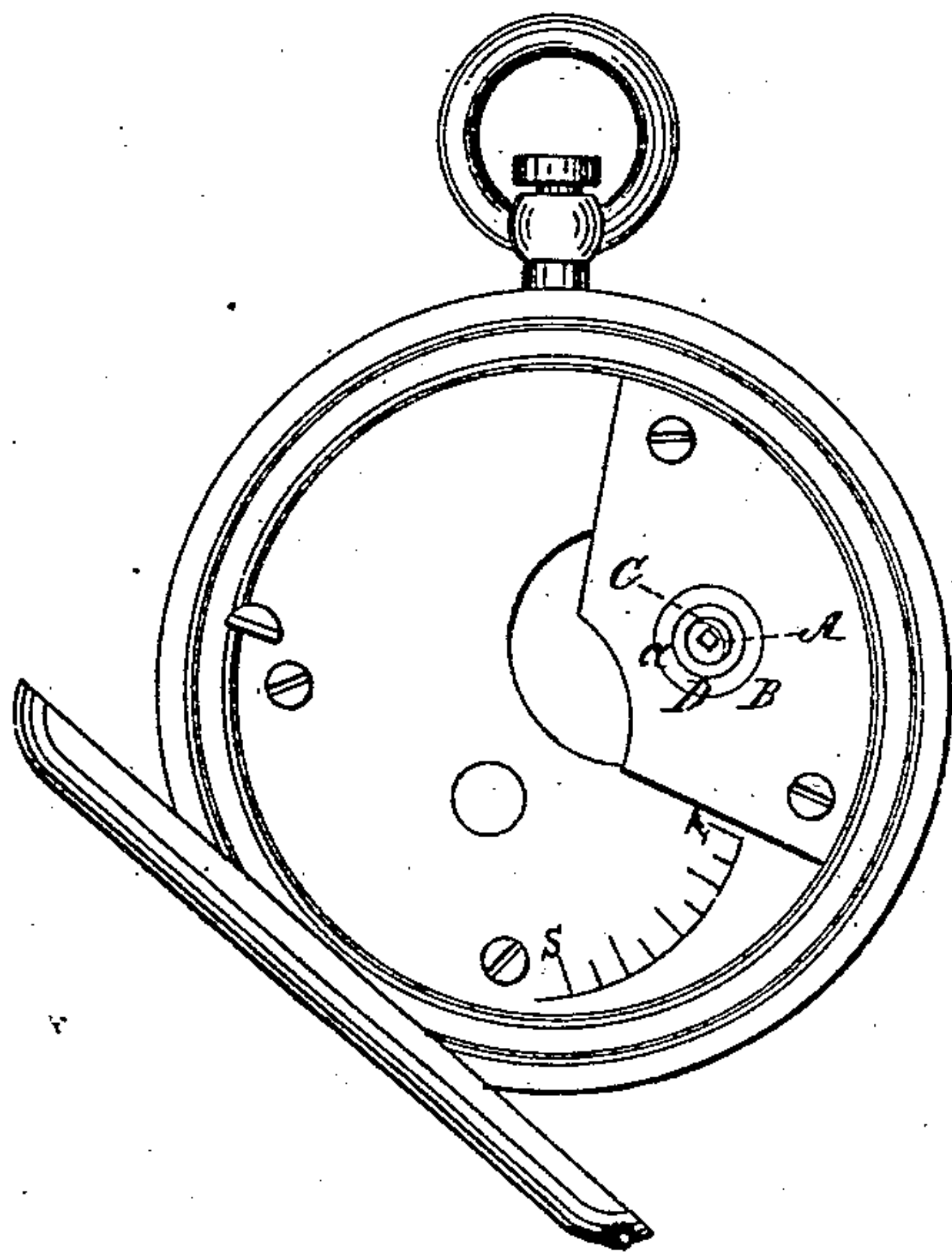


Fig. 2.

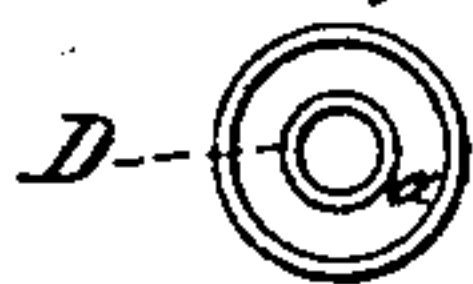


Fig. 3.



Fig. 4.

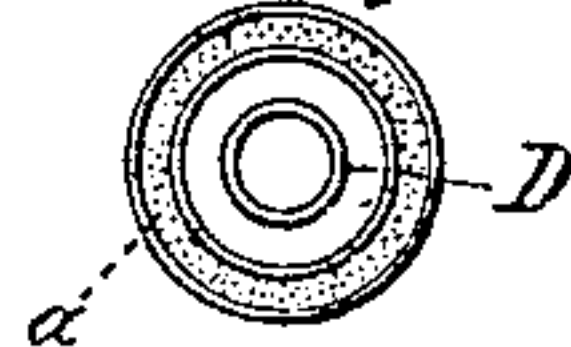


Fig. 5.



Fig. 6.

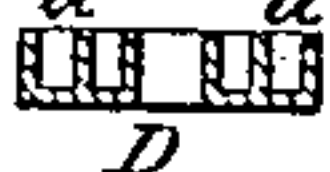


Fig. 7.



Witnesses.
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CHARLES SPRINGER, OF NEW CASTLE, PENNSYLVANIA.

Letters Patent No. 77,848, dated May 12, 1868.

IMPROVEMENT IN WATCHES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, CHARLES SPRINGER, of New Castle, in the county of Lawrence, and State of Pennsylvania, have invented a new and useful Improvement in "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 drawings forming part of this specification.

The present invention consists in applying about and around the standing collar, surrounding the winding-arbor or centre-square which moves the hands, or both, of a watch-movement; for instance, of that class known as the "American," an adjustable grooved collar, having a suitable packing-medium to form a tight and close joint, when the watch is shut, with the case thereof, and thus exclude or prevent the entrance of dirt to the interior or running-mechanism of the movement.

In the accompanying plate of drawings my improvements in watches are illustrated—

Figure 1 being a view of a watch with its back cover open, exposing the back plate.

Figures 2, 3, 4, 5, 6, 7, and 8, detail views of the packing-collar, showing different forms.

A, in the drawings, represents the winding-post of a watch, projecting from the back-plate B to the case, and there surrounded by a stationary collar or cup, C, fixed to the plate B. D is a collar, arranged to fit tightly over the outside of the cup C.

This collar D is grooved around its upper side, and in such groove is inserted a leather, cloth, or other packing-ring or washer, *a*, suitable to pack and form a close and tight joint to the entrance of dirt around the winding-post cup and the back-cover, when such cover is closed.

A packing-ring or collar, similar to that above described, may be also used upon and around the centre-square, which carries the hands, if so desired.

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

The adjustable collar D, containing the packing in the annular recess *a*, in combination with the back-plate B, cap C, and post A, of an ordinary watch, as herein described, for the purpose specified.

CHARLES SPRINGER.

Witnesses:

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