

(No Model.)

E. A. REMICK & P. FLECK.
WATCHCASE SPRING.

No. 519,926.

Patented May 15, 1894.

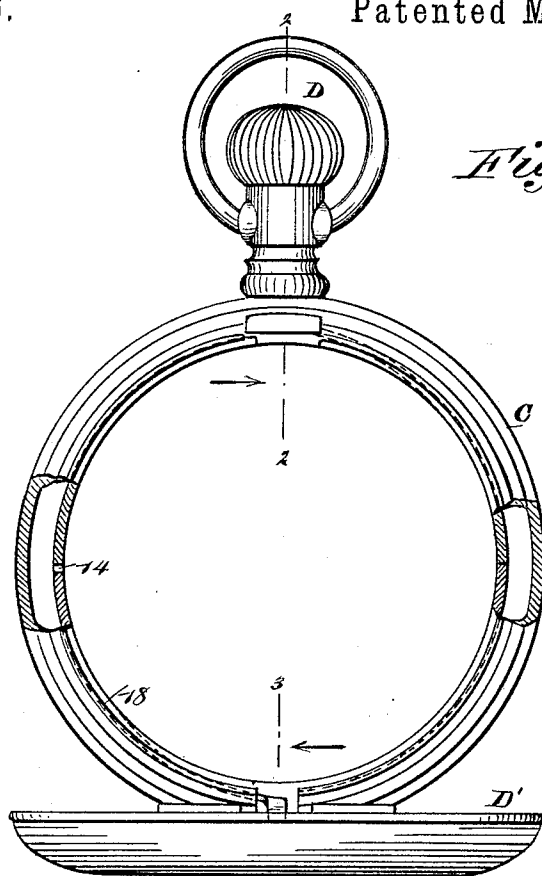
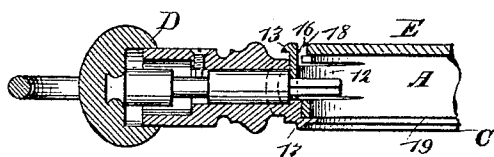


Fig. 1

Fig. 2



3

Fig. 3

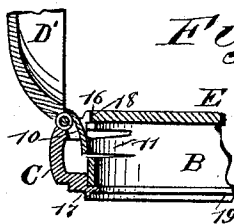


Fig. 4

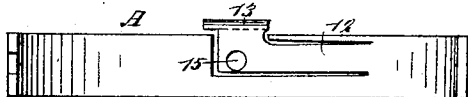
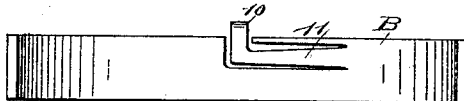


Fig. 5



WITNESSES:

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EDWARD A. REMICK, OF NEWARK, NEW JERSEY, AND PETER FLECK, OF
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WATCHCASE-SPRING.

SPECIFICATION forming part of Letters Patent No. 519,926, dated May 15, 1894.

Application filed January 4, 1893. Serial No. 457,212. (No model.)

To all whom it may concern:

Be it known that we, EDWARD A. REMICK, of Newark, in the county of Essex and State of New Jersey, and PETER FLECK, of Long Island City, in the county of Queens and State of New York, have invented a new and useful Improvement in Watchcase-Springs, of which the following is a full, clear, and exact description.

Our invention relates to an improvement in watch case springs, and has for its object to construct a spring in two semi-circular sections which when placed end to end form a complete band or ring, one section being provided with a fly and the other section with a lock latch.

A further object of the invention is to so construct the spring that it will not require screws or equivalent locking devices to hold it in place, and whereby also the spring may be utilized to support a movement, thus rendering a dust band upon the movement unnecessary, and permitting a movement to be placed in a case in an expeditious and convenient manner. Furthermore, no fitting is required when placing the spring in the watch case center, as it may be simply sprung into position.

Another object of the invention is to provide a spring which not only may be more quickly and effectually seated than ordinary springs, but which may also be more economically manufactured and more readily manipulated.

Our invention is an improvement in the class of two-part bands, or rings, which are arranged in the interior of a watch-case center, and provided with a spring "fly" and "lock latch," for engagement with the watch-case cover. In our improvement the "fly" and "lock latch" are made integral with the semi-circular sections forming the complete band, or ring, and the latter is so arranged relative to the watch-case center as to form a support for the watch-movement, as hereinafter described.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a front elevation, partly in sec-

tion, of the front of a watch case, the front cover being shown open. Fig. 2 is a vertical section taken practically on the line 2—2 of Fig. 1. Fig. 3 is a similar section taken practically on the line 3—3 of Fig. 1; and Figs. 4 and 5 are detail views of the sections of the spring.

The band or ring is made in two sections A and B. The sections are semi-circular in shape, and when the two sections are brought end to end, or one is placed over the other, a perfect band or ring is obtained, as is shown in Fig. 1; and in this manner the two sections are adapted to be used in the case. Each section is made from a piece of steel or equivalent material of a predetermined width, and one section is adapted to carry the fly and the other the lock latch of the spring. The fly 10, is shown as an integral portion of the section B, which is the lower section of the spring, and the fly forms a portion of a tongue 11, the tongue being struck up from the metal employed in the formation of the section, as is likewise the fly. The other section A of the band or ring is likewise provided with a tongue 12, and the lock 13, is made integral with the tongue, the tongue being an integral portion of the section. Thus it will be observed that each section of the band or ring is entirely formed from a single piece of material. It will be understood, and readily observed, from Figs. 4 and 5, that the tongues extend circumferentially of the sections, while the fly and lock are located diametrically thereof or transversely.

As has been heretofore stated the ends of the two spring sections A and B are in use brought together, as shown in Fig. 1; and in order that either one of the sections may be removed from the watch case center C in which the band or ring is fitted, one of the springs at one end is ordinarily provided with a recess 14, into which recess a suitable tool may be introduced to withdraw an end of a section from the case center. The lock 13, is adapted to be operated by the spindle of the pendant D of the watch in the ordinary manner; and when the watch is to be a stem-winder, the spindle, as shown in Fig. 2, is made to pass through an opening 15, produced in the lock, the said opening showing best in Figs. 2 and

4, while the fly 10, forming a portion of the lift section of the band or ring operates upon the knuckle of the hinge of the front cover D' in the ordinary manner and as shown in Fig. 1.

5 As shown in Figs. 2 and 3, the watch-case center, C, has two opposite interior, circular shoulders, 16 and 17, and the semi-circular band sections, A and B, rest on the lower shoulder, 17; but the upper edges of the said
10 sections lie for one half their thickness beneath the upper shoulder, 16, while the other half of such thickness projects interiorly beyond the said shoulder, 16. It is this narrow, projecting portion of the sections, A and B,
15 which forms a ledge or rest on which the top plate, E, of the watch movement is supported. It will be seen, that the edge of said top plate, E, abuts the portion, 18, of the center, C, which forms the shoulder, 16, and that it projects
20 inward over but half the width of the sections A and B. The latter are sprung into place in the watch-case center, C, and are held therein

without the aid of screws or other supplemental devices. Their ends abut squarely, and thus, in addition to the function just specified, 25 they constitute a dust-excluding band.

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

The combination with the watch-case center, 30 having interior, parallel, upper and lower shoulders, of the semi-circular spring sections, having the integral "fly" and "lock latch," and arranged between said shoulders with their upper edges projecting interiorly be- 35 yond the upper shoulder, and their squared ends abutting, as shown and described, for the purpose specified.

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Witnesses:

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