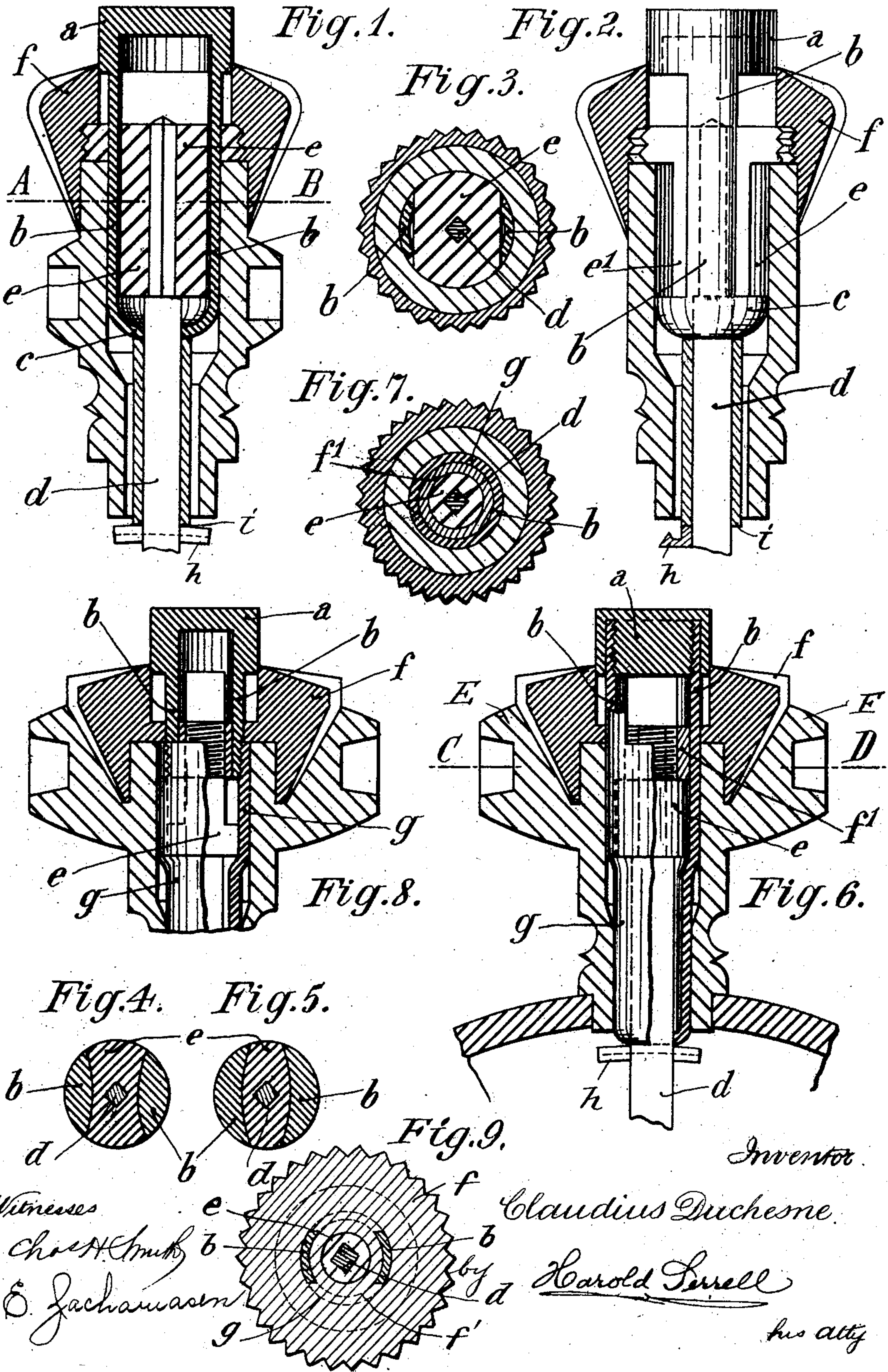


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 PUSH PIECE DEVICE ON WATCH CROWNS.  
 APPLICATION FILED JULY 18, 1908.

915,571.

Patented Mar. 16, 1909.



Witnesses

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# UNITED STATES PATENT OFFICE.

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## PUSH-PIECE DEVICE ON WATCH-CROWNS.

No. 915,571.

Specification of Letters Patent.

Patented March 16, 1909.

Application filed July 18, 1908. Serial No. 444,279.

*To all whom it may concern:*

Be it known that I, CLAUDIUS DUCHESNE, a citizen of Switzerland, residing at 4 Rue Grenes, Geneva, in the canton of Geneva, Switzerland, have invented an Improvement in and Relating to Push-Piece Devices for Watch-Crowns, of which the following is a specification.

Heretofore so far as I am aware the push piece devices for watch crowns have included a push piece button which acts upon pins or screws passed into holes provided therefor either in a square piece of material secured in a watch crown or in a barrel in the watch crown, and experience has shown that in placing the stem in position, these pins are often injured or entirely broken off, and the object of my invention is to overcome the hereinbefore named difficulty.

In carrying out my invention I employ a button constituting part of a push piece, the button being provided with two branch members suitably connected therewith and adapted to slide within the pendant to operate the lid latch or other part, the whole structure being contained within the crown and pendant and adapted to connect these parts, as will be hereinafter more particularly described.

In the drawing, Figure 1 is a vertical section illustrating my present invention. Fig. 2 is a view similar to Fig. 1 taken in a plane at right angles thereto. Fig. 3 is a section on the line A B Fig. 1. Figs. 4 and 5 are detailed sectional views of modifications of parts of the structure shown in Figs. 1, 2 and 3 taken through the stem and projections of the push piece. Fig. 6 is a vertical section showing a further modification of the invention. Fig. 7 is a cross section on line C D Fig. 6, Fig. 8 is a vertical section showing a still further modified form of the invention, and Fig. 9 is a section on line E F Fig. 6.

Referring to the drawing, *a* designates a button which is part of the push piece employed to operate the lid latch or other device of a watch. This button *a* is provided with two arms or branches *b* oppositely disposed, spaced apart and as shown in Fig. 1, are preferably integral with the button *a*. The arms *b* at their free ends are preferably in-turned so as to closely surround the winding stem *d* by a cup-shaped formation indicated at *c* through which as will be understood, the stem *d* is freely revoluble and upon

which the said in-turned extremities of the arms *b* may slide.

*e* designates a head provided with a central aperture adapted to receive the extremity of the winding stem *d* which as shown in Fig. 3 is flat sided so as to be made to turn with the head *e*. The upper end of the head *e* is screw threaded and by means of which it is adapted to be connected to the crown *f* and in the opposite sides of the head *e* there are flattened portions *e'* running longitudinally thereof and in which the arms *b* of the button *a* are adapted to fit and slide; it being understood as hereinbefore intimated, that the cup-shaped lower extremities of the arms *b* upon the button *a* being pressed will act upon suitable devices to move the lid latch *h* or other parts of the watch which are intended to be actuated by the button *a*, through a tube *i* surrounding the stem *d* and as shown in Figs. 4 and 5, it will be understood that it is within the nature and spirit of my invention to provide the head *e* with concave surfaces and the arms *b* with convex surfaces, or to provide the head *e* with convex surfaces and the arms *b* with concave surfaces instead of both members being provided with flat surfaces as indicated in Fig. 3.

Referring to the modification shown in Figs. 6 and 7 the arms or branches as will be understood, may form the parts of a tube *g* which extends throughout the entire length of the pendant and is connected to the button *a* by having the upper end portions thereof interiorly screw threaded to screw into a recess provided therefor in the button *a*; the upper end of the tube as will be understood, is cut away on opposite sides to provide the oppositely disposed arms *b* which pass through recesses provided therefor in the crown *f* and into the annular recess in the button *a*. Within the tube *g* the winding stem *d* is provided with a head *e* as in the other form of the invention, and the upper end of this part is of reduced diameter and screw-threaded to be connected with a barrel *f'* integrally with or connected to the stem *f*; the barrel *f'* fitting within the tube *g* and the aforesaid recesses for the arms and branches being provided between the barrel *f'* and the outer portion of the crown *f*.

In the modification shown in Fig. 8, the oppositely disposed arms or branches *b* are integral with the push button *a* and the



lower ends thereof are screw-threaded and adapted to be connected thereby to the upper extremity of the tube *g* similar in all respects to that shown in Figs. 6 and 7, the  
5 said arms or branches *b* in this construction passing through similar recesses in the crown *f* like those described for the divided portions of the tube *g* shown in Figs. 6 and 7.

I claim as my invention:

10 1. In a watch, the combination with a pendant and winding stem, of a head on said stem, a crown, a push piece, a tube surrounding said head and slidable thereon, and arms associated with said tube and extending through apertures provided therefor between the said head and crown and  
15 connected to the said push piece.

2. In a watch, the combination with a pendant and winding stem, of a head fixed  
20 on said stem, a crown having a recess therein, a push piece within the recess in the crown, a tube surrounding the said head and curved arms integral with the said tube and extending through the apertures provided therefor  
25 in the said crown and connected to the said push piece.

3. In a watch, the combination with a pendant and the winding stem, of a head

fixed on the said stem, a crown having a recess therein, a push-piece within the recess  
30 in the crown, a tube surrounding the said stem and head thereon, curved arms integral with the said tube and extending through apertures provided therefor in the said crown and connected to the said push-piece.  
35

4. In a watch, the combination with a pendant and the winding stem, of a head fixed on the said stem, a crown having a recess therein, a centrally disposed barrel  
40 integral with the said crown and in which the said crown is connected to the said head, a push-piece having an annular screw-threaded recess therein, a tube surrounding  
45 said stem and head and slidable thereon, and curved screw-threaded arms integral with the said tube and extending through apertures provided therefor in the said crown and adapted to be received in the said  
annular recess in the said push-piece.

In testimony whereof I have affixed my  
50 signature in presence of two witnesses.

CLAUDIUS DUCHESNE.

Witnesses:

L. H. MUNICER,

R. DE HURSTENBERGER.