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WATCHCASE PENDANT CONSTRUCTION

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Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

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This invention relates to a new and improved dust-proof connection between the crown and pendant of a watch case.

One of the objects of this invention is to provide a very simple and efficient construction whereby the joint or connection between the crown and pendant is made so tight that it is dust-proof, moisture-proof, etc.

Another object of this invention is to provide a simple and efficient dust-cap for said purpose.

Other objects of this invention will be set forth in the following description and drawings which illustrate a preferred embodiment thereof, it being understood that the above general statement of the objects of this invention is intended to generally explain the same, and not to limit it in any manner.

Fig. 1 is an elevation showing my invention applied to a watch case of standard form and having a bow, crown and pendant of standard form, a portion of the watch case being illustrated as broken away, for the sake of clearness.

Fig. 2 is a sectional view showing the assembly of the pendant, crown and dust cap.

Fig. 3 is a detail view similar to Fig. 2.

Fig. 4 is a sectional view on the line 4—4 of Fig. 2.

Fig. 5 is a perspective view of the dust cap.

Fig. 6 is a detail view.

The watch case W has a bow B' and a pendant C provided with a central post E. A crown B is provided with an internally threaded recess, in which the stem K is secured. These parts require no detailed description as they are in themselves well-known. Fig. 1 shows how the stem K actuates the winding gears of the watch.

The dust-cap A is of general cylindrical contour and is provided with a top flange G and an angular side projection D. This dust-cap A is preferably made of springy metal. The cylindrical portions of the wall of the cap A are adapted to fit very tightly on member E. The internal diameter of cap A may be made slightly smaller than the external diameter of member E, so that some force is required to locate cap A in the position shown in Fig. 2, and a firm frictional grip is secured between members B and A. Any fit which is sufficiently tight to exclude dust and the like is within the scope of my invention.

When the crown B is forced into position, it abuts the flange G and may slightly depress the same, although it would not be departing from the invention to have the crown B merely abut or be close to flange G. The inner diameter of crown B may be slightly less than the external diameter of member E so that a very tight fit is secured between members B and D, although the crown B can be readily turned in the well-known manner. However, when the crown is turned for winding purposes, the cap A does not turn on member E, because the frictional bearing surface between members E and A is sufficient to keep the cap A stationary. However, the frictional grip between shoulder D and crown B is preferably made so strong, that when the crown is removed from the pendant, the cap A is moved longitudinally or is removed simultaneously therewith. The crown B may be provided with an inner groove which is so shallow that it does not appear except in Fig. 6, where it is indicated by the reference letter D' and the shoulder D can spring into this inner groove, so as to provide a dust-tight joint which will enable the crown B to freely turn, and at the same time facilitate the removal of cap A together with crown B.

I have described a preferred embodiment of this invention but it is clear that numerous changes and omissions could be made without departing from its spirit.

I claim:

1. A resilient metal dust cap for a watch case pendant having an outer laterally continuous and laterally projecting member intermediate the ends thereof.

2. In combination, a watch case pendant having a projection, a crown mounted over said projection and provided with a recess having an inner wall, and a dust cap located intermediate said projection and said inner wall, said dust cap snugly abutting said projection to make a dust-tight
fit and having a lateral flange, the end wall of said recess snugly abutting the said flange, said dust cap also snugly abutting the inner wall of the said recess to make a dust-tight fit.

3. In combination, a watch case pendant having a projection, a crown mounted over said projection and provided with a recess having an inner wall, and a dust cap located intermediate said projection and said inner wall, said dust cap snugly abutting said projection to make a dust-tight fit and having an outer lateral projection, the inner wall of said recess having a groove which is engaged by said projection.

4. In combination, a watch case having a projection, a crown mounted over said projection and provided with a recess having an inner wall, and a dust cap located intermediate said projection and said inner wall, said dust cap snugly abutting said projection to make a dust-tight fit and having an outer lateral projecting member adapted to abut said inner wall to make a dust tight fit.

In testimony whereof I affix my signature.

HERBERT K. FOSTER.