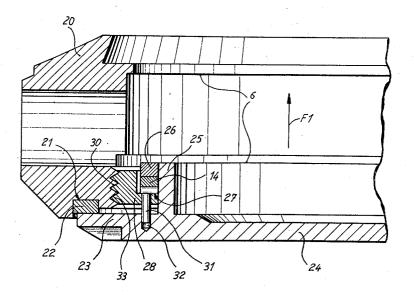
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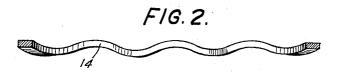
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E. PIQUEREZ FLUIDTIGHT WATCH CASE Original Filed Nov. 1, 1955

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FIG.1.





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FLUIDTIGHT WATCH CASE

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Original application Nov. 1, 1955, Ser. No. 544,332. Divided and this application Dec. 18, 1959, Ser. No. 860,437

Claims priority, application Switzerland Nov. 22, 1954

1 Claim. (Cl. 58-90)

My present application is a dvision of my copending specification Ser. No. 544,332, filed on November 1, 1955. According to my invention, there are provided annular elastic means compressed between the bottom section of the case and the case band, said bottom section including 20 an annular upstanding member provided with an outer flange urged upwardly by the elastic means under the action of said elastic means which are subjected to the upwardly directed compression exerted by a ring threadedly engaging the inside of the case band.

In the drawings:

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Figure 1 is a partial diametrical cross section embodying my invention.

Figure 2 illustrates in detail the elastic means in a partly sectional elevational view.

In the accompanying drawing, the body 20 of the watch case is provided with an annular groove 1 housing a packing 22 held in position by the outer flange 23 on the case bottom 24. Said bottom is provided with an upstanding cylindrical wall 25 to which is outwardly 35 secured a collar-shaped stop 26 which serves for urging axially a corrugated annular spring 14 against a second stop 27 constituted by the inner flange of an assembling ring 28. The latter is screwed inside a tapped section 30 of the case body 20. The ring 28 turns in unison 40 with the bottom 24 of the case as provided by the pins 31, only one of which is illustrated; however, the connection between the bottom 24 and the assembling ring

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28 provides a slight axial clearance between said parts by reason of the fact that the pins 31 are slidingly fitted in blind openings 32, the depth of which is sufficient to allow such an axial clearance. As a consequence of this arrangement, the corrugated annular spring urges the bottom 24 upwardly in the direction of the arrow F_1 by acting on the collar-shaped stop 26 which leads to making the flange 23 exert a pressure on the packing 22. By reason of the presence of equidistant corrugations on the 10 spring 14, said pressure is uniform and constant.

It is possible to substitute for the corrugated annular spring 14 other elastic means held under compressed conditions between an annular axial stop formed either on the case body or on the case bottom or even on another 15 part of the case.

Obviously, the packing is not essential since the desired fluidtightness between the bottom and the case body may be obtained through direct contact between said parts without any packing therebetween.

What I claim is:

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In a fluidtight watch case, the combination of two case components, a bottom section and a case band, an annular packing fitted between the peripheral portion of the upper surface of the bottom section and the lower periphery of the case band, an annular member rigid with $\mathbf{25}$ and extending over the bottom section on the inside of the case band and having an annular surface facing the upper surface of said bottom section, a ring coaxial with the case and threadedly engaging the inner surface of 30 the case band and including an inturned annular flange, the upper surface of which faces the above-mentioned annular surface in the annular member and annular elastic means fitted between the two last-mentioned cooperating annular surfaces and urging the member rigid with the bottom section and therewith the latter upwardly into fluidtight engagement with the case band with the interposition of the packing.

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