

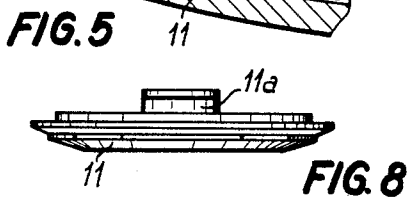
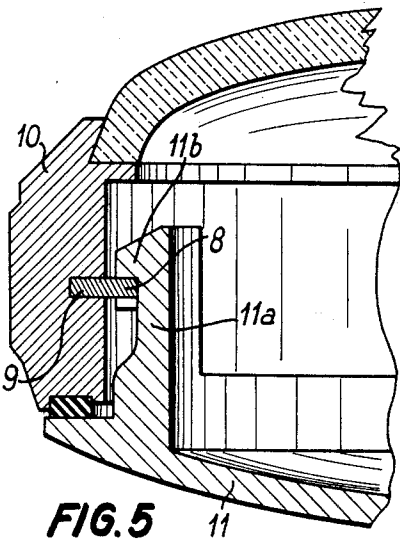
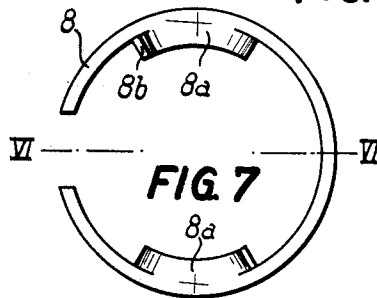
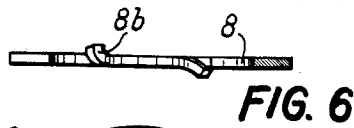
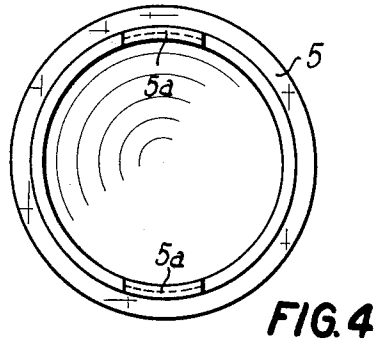
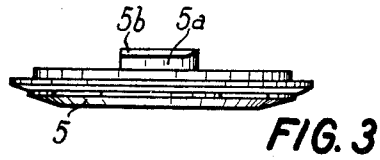
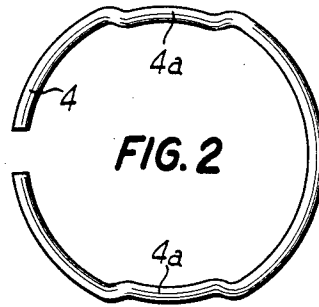
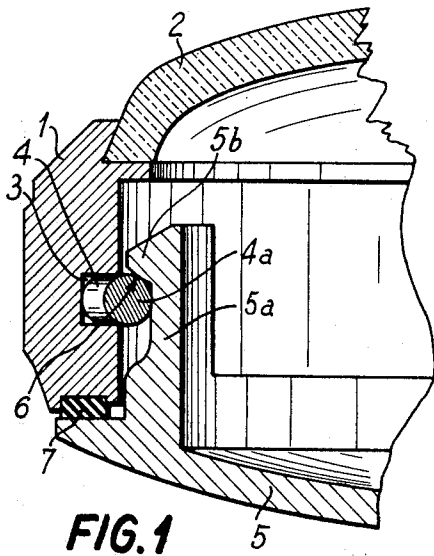
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FLUIDTIGHT CASING FOR WATCHES

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FLUIDTIGHT CASING FOR WATCHES

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6 Claims. (Cl. 58—90)

My invention has for its object a fluid-tight watch case. According to a main object of my invention, the bottom of said case is provided with at least two upstanding tongues extending in parallelism with the axis of the case and fitted on the inside of the case band, said tongues including each an outer shoulder through which they engage, by means of a bayonet joint, a connecting member secured to the case band and projecting inwardly with reference to the latter.

I have illustrated by way of example in accompanying drawings, two preferred embodiments of my invention. In said drawings:

Fig. 1 is an axial cross-section of a portion of a fluid-tight watch-case according to a first embodiment;

Fig. 2 is a plan view of the connecting members on a smaller scale;

Fig. 3 is an elevational view of the case bottom, also on a smaller scale;

Fig. 4 is a plan view of the case bottom illustrated in Fig. 3;

Fig. 5 is a cross-sectional view, similar to that shown in Fig. 1, of the second embodiment.

Fig. 6 is an elevational view of the connecting member in the second embodiment on a smaller scale;

Fig. 7 is a plan view of the connecting member shown in Fig. 6.

Fig. 8 is an elevational view of the bottom of the case shown in Fig. 5, also on a smaller scale.

In the first embodiment, the fluid-tight case includes a cylindrical case band 1 rigid with the rim, inside which is fitted the glass 2. The case band 1 is provided in its inner wall with an annular groove 3 inside which is housed a spring wire 4 assuming the shape of an open annulus including two sections 4a (Fig. 2) projecting inwardly of the casing and out of the groove 3. The bottom 5 of the case which is independent of the case band, is provided with two upstanding tongues 5a extending in parallelism with the axis of the case and provided each with an outwardly directed flange 5b (Figs. 3 and 4) adapted to engage after the manner of a bayonet joint, the corresponding sections 4a of the spring 4. The surface 6 of each shoulder or flange 5b which engages the spring 4, assumes a frustoconical shape so that the radial pressure exerted by the spring 4 on the upstanding tongues 5a may produce an axial pressure exerted by the bottom of the case on the cooperating edge of the case band 1, said pressure compressing the packing 7 fitted between the said two parts of the case.

In the second embodiment, a flat ring 8 the cross-section of which is rectangular, is housed inside an annular groove 9 formed in the cylindrical inner wall of the case band 10. Said ring 8 is provided, as shown in Figs. 6 and 7, with two projections 8a extending radially and inwardly and the transverse ends of which are folded at 8b so as to further the assembly of the bottom 11 with the case band, through a kind of bayonet joint, said bottom being provided for this purpose, as in the preceding case, with

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two upstanding lugs or tongues 11a rigid each at its upper end with an outwardly directed flange 11b (Fig. 8) adapted to engage said projections 8a on the ring 8. This embodiment operates thus in the same manner as the first embodiment illustrated in Figs. 1 to 4.

What I claim is:

1. A fluidtight watch case comprising a case bottom including at least two upstanding tongues parallel with the axis of the case bottom and at equal distances from said axis, an outwardly directed shoulder rigid with the upper end of each tongue, a case band extending on the outside of the tongues coaxially with the axis of the case bottom and provided with an annular groove in its inner surface to face the uprights underneath the shoulders thereon, an annular washer inserted between the lower edge of the case band and the cooperating outer edge of the case bottom, an open annular ring fitted in the groove in the case band and including sections projecting out of said groove towards the inside of the case and adapted to engage the underside of the corresponding upright shoulders for a predetermined relative angular position of the case bottom with reference to the case band.

2. A fluidtight watch case comprising a case bottom including two diametrically opposed upstanding tongues parallel with the axis of the case bottom and at equal distances from said axis, an outwardly directed shoulder rigid with the upper end of each tongue, a case band extending on the outside of the tongues coaxially with the axis of the case bottom and provided with an annular groove in its inner surface to face the uprights underneath the shoulders thereon, an annular washer inserted between the lower edge of the case band and the cooperating outer edge of the case bottom, an open annular ring fitted in the groove in the case band and including two diametrically opposed sections, projecting out of said groove towards the inside of the case and adapted to engage the underside of the corresponding upright shoulders for a predetermined relative angular position of the case bottom with reference to the case band.

3. A fluidtight watch case comprising a case bottom including two diametrically opposed upstanding tongues parallel with the axis of the case bottom and at equal distances from said axis, an outwardly directed shoulder rigid with the upper end of each tongue, a case band extending on the outside of the tongues coaxially with the axis of the case bottom and provided with an annular groove in its inner surface to face the uprights underneath the shoulders thereon, an annular washer inserted between the lower edge of the case band and the cooperating outer edge of the case bottom, an open annular ring fitted in the groove in the case band and including two diametrically opposed sections, projecting out of said groove towards the inside of the case and adapted to engage the underside of the corresponding upright shoulders for a predetermined relative angular position of the case bottom with reference to the case band, said projecting sections having ends extending peripherally of the inner wall of the case band and shaped helically with reference to the axis of the case.

4. A fluidtight watch case comprising a case bottom including at least two upstanding tongues parallel with the axis of the case bottom and at equal distances from said axis, an outwardly directed shoulder rigid with the upper end of each tongue, a case band extending on the outside of the tongues coaxially with the axis of the case bottom and provided with an annular groove in its inner surface to face the uprights underneath the shoulders thereon, an annular washer inserted between the lower edge of the case band and the cooperating outer edge of the case bottom, a split spring annulus fitted inside the groove and projecting out of said groove at points regis-

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tering vertically with the location of the shoulders on the upstanding tongues for a predetermined relative angular setting of the case band and bottom to engage tightly the underside of said shoulders.

5. A fluidtight watch case comprising a case bottom including at least two upstanding tongues parallel with the axis of the case bottom and at equal distances from said axis, an outwardly directed shoulder rigid with the upper end of each tongue, a case band extending on the outside of the tongues coaxially with the axis of the case bottom and provided with an annular groove of rectangular cross-section in its inner surface to face the uprights underneath the shoulders thereon, an annular washer inserted between the lower edge of the case band and the cooperating outer edge of the case bottom, a split ring of substantially rectangular cross-section fitted inside the groove in the inner wall of the case band and including projecting sections registering vertically with the location of the shoulders on the upstanding tongues for a predetermined relative angular setting of the case band and bottom to engage tightly the underside of said shoulders.

6. A fluidtight watch case comprising a case bottom including at least two upstanding tongues parallel with the axis of the case bottom and at equal distances from said axis, an outwardly directed shoulder rigid with the

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upper end of each tongue, and the lower surface of which assumes a slope directed downwardly towards the axis of the case, a case band extending on the outside of the tongues coaxially with the axis of the case bottom and provided with an annular groove in its inner surface to face the uprights underneath the shoulders thereon, an annular washer inserted between the lower edge of the case band and the cooperating outer edge of the case bottom, an open annular ring fitted in the groove in the case band and including sections projecting out of said groove towards the inside of the case and adapted to engage the underside of the corresponding upright shoulders for a predetermined relative angular position of the case bottom with reference to the case band.

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