

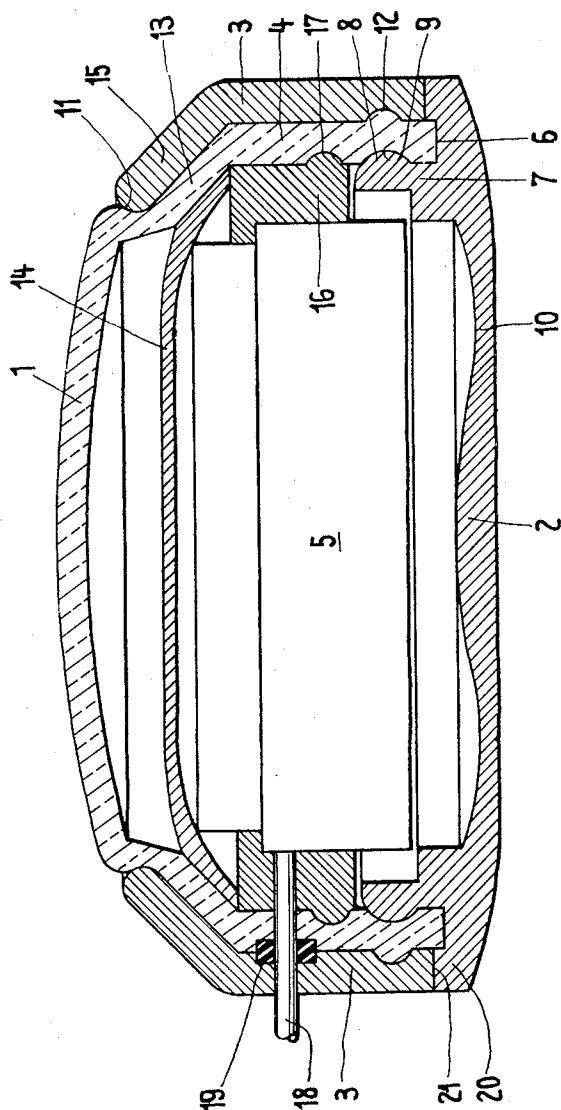
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TIGHT CONTAINER

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TIGHT CONTAINER

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8 Claims. (Cl. 58—90)

This invention relates to tight containers comprising a container body and a closing member having a collar to be fixed detachably to the container body.

The container according to the invention is characterized in that the said closing member is thinned in a zone inside said collar in order to guarantee elasticity of the collar and to obtain a pressure fit between said body and said member.

Other objects and features will be apparent as the following description proceeds, reference being had to the accompanying drawing which, by way of example, illustrates one embodiment of my invention, and wherein the single figure represents an axial section of this embodiment in the shape of a watchcase.

The case shown in the drawing comprises a body 1 forming the watch crystal, a closing member 2 forming the back of the case, and a combined bezel and center 3. The crystal 1 has the shape of a bell whose wall 4 extends axially all over the height of the watch movement 5 and touches the back 2 as at 6.

Inside its outer circumference the back 2 has a collar 7 the outer circumference of which has a bead 8 snappingly engaged in an inner groove 9 of the crystal wall 4. The shape of the groove 9 is exactly adjusted to the shape of the bead 8. The surfaces engaging each other have been machined and polished very finely in order to guarantee good tightness against penetration of liquid, gases and solid substances.

The back 2 is thinned in a zone 10 lying inside the collar 7 in order to guarantee elasticity of the collar 7 and, in consequence, to obtain a strong and uniform pressure exerted by the bead 8 on the groove 9, a fact which adds to the tightness of the joint.

The combined bezel and center 3 is held fast on the crystal by means of a double snap fixing means. The crystal comprises a depression 11 in which the upper end of the combined bezel and center 3 is engaged. Besides this, the wall 4 has a projection or bead 12 engaging a correspondingly shaped groove of the center 3.

The combined bezel and center 3 comprises a cylindrical wall and an upper truncated cone portion 15. The wall of the crystal comprises the proper wall 4 and an upper truncated cone portion 13. The combined bezel and center 3 is applied against the crystal wall, its truncated cone portion 15 being applied against the portion 13 of the crystal, so that the rim of the dial 14 engaging the lower face of the portion 13 is hidden from view by the portion 15 of the combined bezel and center 3.

When the watch movement has relatively small dimensions, as is the case in the illustrated example, a casing frame 16 carrying the movement 5 is adjusted inside the crystal wall 4. In the drawing, this frame 16 has a projection or bead 17 engaging a correspondingly shaped groove of the wall 4. The wall 4 is thus slightly thinned in the region of this groove so that a certain elasticity of the lower portion of the wall 4 is guaranteed and assembling the case thereby facilitated.

The winding stem 18 traverses freely the center 3, the

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wall 4 and the frame 16. A washer 19 such as of rubber, for instance, lies in a lodging provided partially in the crystal and partially in the center, and embraces tightly the winding stem 18. Instead of using the washer 19 the stem 18 may be provided with a watertight crown.

The back 2 has a radial extension 20 to make the back 2 flush with the center 3.

When assembling the shown and described watchcase, the frame 16 comprising the watch movement 5 is at first inserted into the crystal 1 (snap fixing 17). Afterwards, the combined bezel and center 3 is put onto the crystal 1, the member 3 being thereby snappingly fixed to the crystal as at 11 and 12. Finally, the back 2 is brought into place whereby its collar 7 snappingly engages the crystal wall 4 as at 8, 9. In order to take the case to pieces, a knife or the like is inserted into the joint 21 thereby separating the center 3 from the extension 20 of the back 2, so that the latter can be removed. Afterwards, the lower portion of the crystal wall 4 is radially compressed in order to remove the combined bezel and center 3. Finally, by radially extending the wall 4, the casing frame 16 and the watch movement 5 can easily be taken out of the crystal.

The bead 8 may also be provided on the wall 4 and the corresponding groove 9 on the collar 7 of the back 2.

Instead of a watchcase, the novel container may for instance be a conserve box for storing victuals or any other kind of water- and/or gastight and/or dustproof container.

While I have described and shown one embodiment of my invention I do not wish to unnecessarily limit the scope of my invention to this embodiment, but reserve the right to make such modifications and rearrangements of the several parts as may come within the purview of the accompanying claims.

What I claim is:

1. A generally cylindrically shaped container comprising a container body forming one end and the sidewall of the container, a closing member forming the other end of the container, locking means removably securing the closing member in engagement with the container, an annular area of reduced section forming part of the closing member end, and a center portion thicker than said annular section forming part of the closing member end, the edge of the closing member adapted to be yieldingly pressed inwardly facilitating the engagement of the locking means.

2. A generally cylindrically shaped container comprising a container body forming one end and the sidewall of the container, locking means, and a closing member forming the other end of the container and removably held in closing relationship with the container by the locking means, the closing member having a thinned annular zone between two thicker zones, the edge of the closing member adapted to be yieldingly pressed inwardly facilitating the engagement of the locking means.

3. A generally cylindrically shaped container comprising a container body forming one end and the sidewall of the container, a closing member forming the other end of the container, surfaces of the body and closing member cooperating with each other, means forming a bead on one of said last-mentioned members, means forming a groove on the other of the last-mentioned members, the groove practically exactly adjusted to the shape of the bead, an annular area of reduced section forming part of the closing member end, and a center portion of the closing member end thicker than said annular section, the edge of the closing member adapted to be yieldingly pressed inwardly facilitating the engagement of the bead in the groove, whereby a snap action assembly is had of the body and closing member.

4. A watchcase comprising a bell-shaped crystal, a

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back, a collar extending from the back and snappingly engaged with the inner surface of the crystal wall, and a thinned annular zone between two thicker zones of the back whereby a snap assembly is had of the crystal and back, the edge of the back adapted to be yieldingly pressed inwardly facilitating the engagement of the collar with the inner surface of the crystal-wall.

5. A watchcase comprising a bell-shaped crystal, a back, a collar extending from the back and snappingly engaged with the inner surface of the crystal wall, a thinned annular zone between two thicker zones of the back for a snap assembly, a combined bezel and center, and a truncated cone portion of the combined bezel and center for hiding from view the rim of a watch dial to be inserted in the case, the crystal in beaded engagement with the collar and the combined bezel and center in beaded engagement with the crystal.

6. A watchcase comprising a bell-shaped crystal having a groove on its inner wall positioned adjacent the edge and a bead on its outer wall positioned opposite to the groove, a back, a collar extending from the back and having a bead on its outer surface to engage the groove in the crystal, a combined bezel and center having a groove on its inner wall positioned adjacent one end to receive the crystal bead, and a truncated cone portion of the combined bezel and center for hiding from view the rim of a watch dial to be inserted in the case.

7. A watchcase comprising a bell-shaped crystal having a groove on its inner wall positioned adjacent the edge and a bead on its outer wall positioned opposite to the

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groove, a back, a collar extending from the back and having a bead on its outer surface to engage the groove in the crystal, a combined bezel and center having a groove on its inner wall positioned adjacent one end to receive the crystal bead, a truncated cone portion of the combined bezel and center for hiding from view the rim of a watch dial to be inserted in the case, and a thinned annular zone between two thicker zones of the back.

8. A container comprising a wall, a detachable closing member, and locking means securing the closing member in closing relationship with the wall, the closing member having an annular thinned zone positioned inwardly of its edge, the edge of the closing member adapted to be yieldingly pressed inwardly facilitating the engagement of the locking means securing the closing member in closing relationship with the wall.

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