

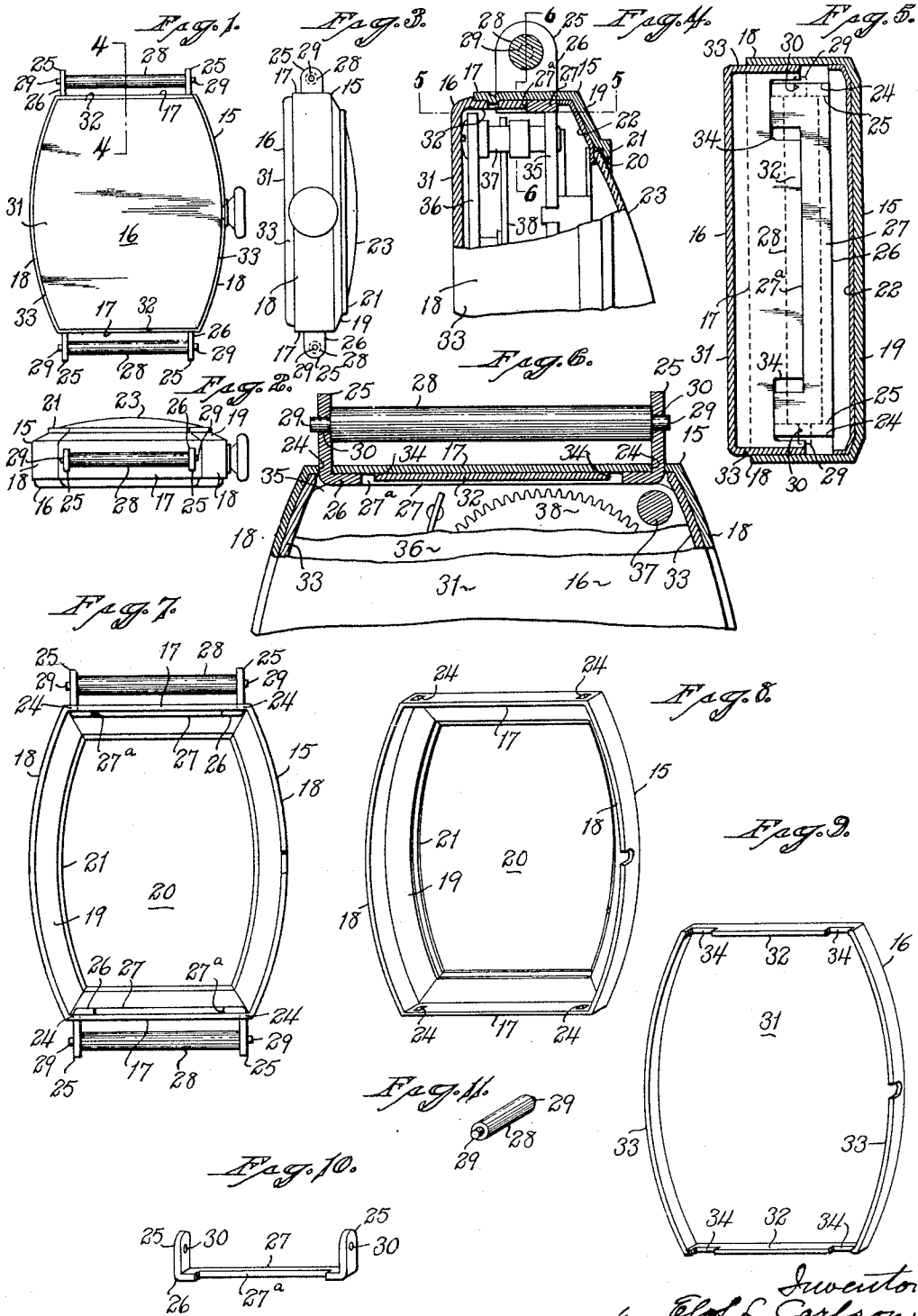
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WRIST WATCH AND THE LIKE

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WRIST WATCH AND THE LIKE

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This invention relates to an improvement in strap watches and the like, characterized by their provision with straps of various kinds and commonly referred to as "wrist watches," though not so limited.

One of the main objects of my present invention is to provide an attractive wrist watch or the like, having strong, reliable and low-cost means for the attachment of fastening-straps.

A further object of my invention is to provide a wrist watch or the like with strap-attaching means of such character as will serve also as a reinforcement for the case, and thus minimize the distortion or breakage of the latter under strains imposed by a strap.

With the above and other objects in view, as will appear from the following, my invention consists in a wrist watch or the like having certain features of construction and combinations and arrangements of parts as will be hereinafter described and particularly recited in the claims.

In the accompanying drawing:

Fig. 1 is a rear face view of a wrist watch constructed in accordance with my invention;

Fig. 2 is an end view thereof;

Fig. 3 is an edge view thereof;

Fig. 4 is a broken detail view, partly in edge elevation and partly in section, on the line 4—4 of Fig. 1, but on a larger scale;

Fig. 5 is a transverse sectional view taken on the line 5—5 of Fig. 4;

Fig. 6 is a broken view, partly in rear elevation and partly in horizontal section, on the line 6—6 of Fig. 4;

Fig. 7 is a view in elevation of the front case-member, looking toward the inner face thereof and showing the strap-yokes and strap-bars assembled therewith;

Fig. 8 is a perspective view of the front case-member stripped of its associated parts;

Fig. 9 is a similar view of the back case-member;

Fig. 10 is a perspective view of one of the strap-yokes; and

Fig. 11 is a similar view of one of the strap-bars.

The particular wrist watch herein chosen for the illustration of my invention consists in a cup-shaped sheet-metal front case-member, generally designated by the numeral 15, and a complementary cup-shaped back case-member, generally designated by the numeral 16, and adapted to telescopically fit within the front case-member 15 aforesaid, as will hereinafter appear.

The front case-member 15 is struck up to form two complementary end-walls 17—17 and complementary side-walls 18—18 respectively rearwardly projecting from a front-wall 19 which latter has its central portion cut away to provide a sight-opening 20, through which the hands of the watch may be observed. The front-wall 19, just referred to, is also struck up to form a forwardly- and inwardly-offset retaining-flange 21 surrounding the said sight-opening 20 and adapted to cooperate with an inner crystal-retaining ring 22 in retaining a concavo-convex crystal 23 in place.

Each of the end-walls 17—17 of the front case-member 15 is provided with two rectangular openings or perforations 24—24 respectively located adjacent its opposite ends and serving to provide for the outward passage of the offsetting parallel side-arms 25—25 of a U-shaped sheet-metal strap-yoke, generally designated by the numeral 26 and including, also, an integral cross-reach 27 extending between and connecting the spaced-apart side-arms 25—25 just referred to, and notched in its rear edge, as at 27^a for the purpose as will hereinafter appear.

The strap-yokes 26 are mounted in the front case-member 15 by passing their respective side-arms 25—25 outwardly through the openings 24—24 until the cross-reach 27 of the given said yoke is seated against the inner face of the adjacent end-wall 17, in which position it serves to stiffen and reinforce the said end-wall and provides a secure anchorage for a strap, despite the fact that the said end-walls may be of relatively-light material.

Installed between the respective side-arms 25—25 of each of the strap-yoke 26 is a cylindrical strap-bar 28 provided at its opposite

ends respectively with trunnions 29—29 extending into suitable perforations 30, one of which is formed in each of the side-arms 25—25 of each of the strap-yokes 26.

5 Telescopically fitting within the front case-member 15 is the cup-shaped back case-member 16 already referred to, which consists of a back-wall 31, complementary end-walls 32—32 and complementary side-walls 33—33.
10 The end-walls 32—32 and the side-walls 33—33 of the case-member 16 respectively complement the end-walls 17—17 and the side-walls 18—18 of the case-member 15, within which they interfit.

15 Each of the opposite end-walls 32—32 of the back case-member 16 extends into and seats in the notch 27^a of its complementary strap-yoke 26 and is provided with two clearance-notches 34—34 respectively located
20 adjacent its opposite ends and serving to clear the arms 25—25 and the portions of the cross-reach 27 adjacent thereto of the adjacent one of the said strap-yokes.

Housed within the case formed by the complementary front and back case-members 15 and 16 is a watch-movement of any approved type and requiring no detailed description, further than to state that it includes complementary front and back movement-plates
25 35 and 36, connected together by one or more pillars 37, as shown in Fig. 4, and housing between them the usual time-train represented by a gear-wheel 38.

30 Preferably, the front movement-plate 35 will be so proportioned as to bear against the inner face of the cross-reach 27 of one or both of the strap-yokes 26, so as to positively prevent the inward displacement of the latter, though it is obvious that the movement-plate need not necessarily be employed
35 for this purpose.

In the construction herein shown, I employ a strap-bar 28 extending between the side-arms of each of the strap-yokes 26, but I
40 wish to have it understood that in the event of the employment of metallic straps, it is feasible to omit the strap-bar 28 and connect the respective opposite ends of the metal strap directly to the said side-arms 25.

45 By employing a substantially U-shaped strap-yoke which is secured to the case by passing its side-arms outwardly through the same, I not only provide strap-attaching means which will effectually resist strains
50 imposed upon it without being pulled free from the said case, but I also provide for preventing the distortion of the case as an incident to the strains referred to.

I am well aware that heretofore U-shaped
55 strap-yokes have been employed in wrist watches but such yokes have usually been applied by extending their side-arms inwardly through the case and riveting the said side-arms over upon the interior of the latter, with the result that not only were the

relatively-weak riveted-over portions directly subjected to the draft imposed by the strap, but also the case was subjected to distortion and possible breakage.

It will be understood by those skilled in
60 the art that my invention may assume varied physical forms without departing from my inventive concept, and I, therefore, do not limit myself to the specific embodiment herein chosen for illustration, but only as
65 indicated in the appended claims.

I claim:

1. In a strap watch or the like, the combination with a case provided with spaced-apart openings; of a U-shaped strap-yoke
70 having its cross-reach located within the said case and having its spaced-apart side-arms extending outwardly from the interior of the said case through the said spaced-apart openings therein.

2. In a strap watch or the like, the combination with a case provided in its edge with spaced-apart openings; of a U-shaped strap-yoke having its cross-reach located within
75 the said case and having its spaced-apart side-arms extending outwardly from the interior of the said case through the said spaced-apart openings in the edge thereof.

3. In a strap watch or the like, the combination with a case provided in its edge with
80 spaced-apart openings; of a one-piece U-shaped strap-yoke having its cross-reach located within the said case and having its spaced-apart side-arms extending outwardly from the interior of the said case through
85 the said spaced-apart openings in the edge thereof.

4. In a strap watch or the like, the combination with a case provided with spaced-apart openings; of a U-shaped strap-yoke
90 having its cross-reach located within the said case and having its spaced-apart side-arms extending outwardly from the interior of the said case through the said spaced-apart openings therein; and a strap-bar located
95 outside of the said case and extending between the projecting side-arms of the said strap-yoke.

5. In a strap watch or the like, the combination with a case provided with spaced-apart
100 openings; of a one-piece U-shaped strap-yoke having its cross-reach located within the said case and having its spaced-apart side-arms extending outwardly from the interior of the said case through the said
105 spaced-apart openings therein; and a strap-bar located outside of the said case and extending between the projecting side-arms of the said one-piece strap-yoke.

6. In a strap watch and the like, the combination with a case including two interfitting flanged case-members, one of which is provided in its flange with spaced-apart
110 openings; of a U-shaped strap-member having its cross-reach located within the said
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case and having its spaced-apart side-arms extending outwardly from the interior of the said case through the said spaced-apart openings therein.

case-member fitting within the said outer case-member; of a U-shaped strap-yoke having its cross-reach located within the flange of the said outer case-member and having its spaced-apart side-arms extending outwardly through the said spaced-apart openings therein; the said inner case-member having its flange notched to clear the portion of the said strap-yoke located within the said outer case-member.

In testimony whereof, I have signed this specification.

ELOF L. CARLSON.

5 7. In a strap watch and the like, the combination with a case including two interfitting flanged case-members, one of which is provided in its flange with spaced-apart openings; of a U-shaped strap-member having its cross-reach located within the said case and having its spaced-apart side-arms extending outwardly from the interior of the said case through the said spaced-apart openings therein; and a strap-bar located outside of the said case and extending between the projecting side-arms of the said strap-yoke.

10 8. In a strap watch and the like, the combination with a case including two interfitting flanged case-members, one of which is provided in its flange with spaced-apart openings; of a one-piece U-shaped strap-member having its cross-reach located within the said case and having its spaced-apart side-arms extending outwardly from the interior of the said case through the said spaced-apart openings therein.

15 9. In a strap watch and the like, the combination with a case including interfitting flanged case-members, one of which is provided in its flange with spaced-apart openings; of a one-piece U-shaped strap-member having its cross-reach located within the said case and having its spaced-apart side-arms extending outwardly from the interior of the said case through the said spaced-apart openings therein; and a strap-bar located outside of the said case and extending between the projecting side-arms of the said one-piece strap-yoke.

20 10. In a strap watch and the like, the combination with a case including a flanged outer case-member provided in its flange with spaced-apart openings, and a flanged inner case-member fitting within the said outer case-member; of a U-shaped strap-yoke having its cross-reach located within the flange of the said outer case-member and having its spaced-apart side-arms extending outwardly through the said spaced-apart openings therein.

25 11. In a strap watch and the like, the combination with a case including a flanged outer case-member provided in its flange with spaced-apart openings, and a flanged inner case-member fitting within the said outer case-member; of a one-piece U-shaped strap-yoke having its cross-reach located within the flange of the said outer case-member and having its spaced-apart side-arms extending outwardly through the said spaced-apart openings therein.

30 12. In a strap watch and the like, the combination with a case including a flanged outer case-member provided in its flange with spaced-apart openings, and a flanged inner

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