April 1, 1958 R. SCHMITT 2,828,901

WRIST BAND FOR WATCHES

Filed Feb. 15, 1955

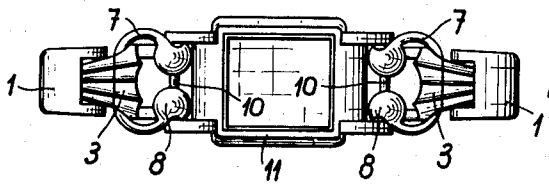


FIG. 1

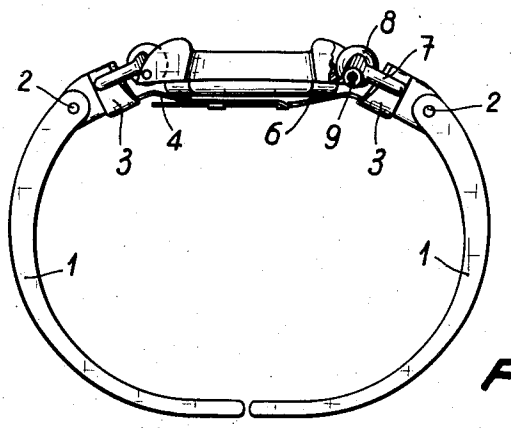


FIG. 2

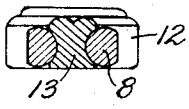


FIG. 9

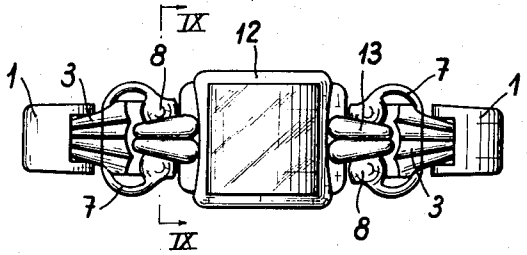


FIG. 3

FIG. 4

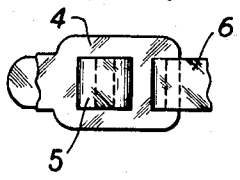


FIG. 5

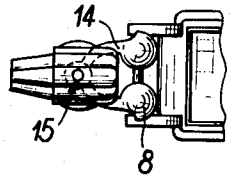


FIG. 6

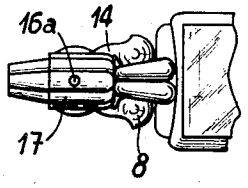


FIG. 7

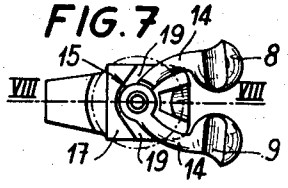
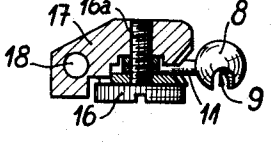


FIG. 8



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WRIST BAND FOR WATCHES

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7 Claims. (Cl. 224—4)

My invention has for its object a wrist band for watches, constituted by two rigid arcuate arms of which at least one is pivotally secured to the watch case.

According to my invention, the wrist band arms are carried by an attachment adapted to extend underneath the watch and to which are secured two U-shaped members each arm of which is provided at its ends with means such as slotted members or spheres for engaging the cross bar of a lug on the watch case.

I have illustrated by way of example in accompanying drawings two embodiments of a wrist band for a watch according to my invention together with a modification thereof. In said drawings:

Fig. 1 is a plan view of a first embodiment of a wrist band to which is secured a watch case provided with lugs for holding said wrist band.

Fig. 2 is an elevational view of the same embodiment.

Fig. 3 is again a plan view of the same embodiment associated with a watch case provided with a perforated bearing member.

Fig. 4 is a view of a detail as seen from underneath.

Figs. 5 and 6 are partial plan views of a further embodiment of the wrist band to which is secured a watch case provided with lugs in the case of Fig. 5 and with perforated members in the case of Fig. 6.

Fig. 7 is a view from below of a detail of said embodiment.

Fig. 8 is an elevational view of said detail.

Fig. 9 is a view, partly in cross-section, along line IX—IX of Fig. 3.

In the embodiment illustrated in Figs. 1 to 4, the wrist band includes two rigid arcuate arms **1** pivotally secured each at **2** to an intermediate piece **3**; one of said intermediate pieces **3**, that shown on the left hand side of Fig. 2, carries a resilient metal strip **4** adapted to engage the underside of the watch case and inside which are provided transverse openings **5** as shown in Fig. 4, whereas the other intermediate member **3** carries a non-perforated resilient strip **6** engaging said transverse openings **5**. By reason of this arrangement, the two blades **4** and **6** may slide with reference to each other, which allows adjusting the distance between the two intermediate pieces **3** in accordance with the size of the watch case to be secured to the wrist band; furthermore and by reason of the resiliency of said strips, the wrist band may be deformed when it is desired to secure it to the watch. Lastly the friction exerted by the two cooperating strips prevents any untimely shifting between the two strips with reference to each other.

Each intermediate piece **3** carries a U-shaped member **7** the outer ends of which are each rigid with a part spherical section **8** provided with a transverse notch **9**. These spherical sections **8** engage through their notches **9** the bars **10** forming part of the lugs to either side of the watch case **11**.

In Figs. 3 and 9, the wrist band is shown, as mounted on a watch **12**, provided with bearings constituted by

recessed members **13**. By reason of the elasticity of the arms of the U-shaped parts **7**, the spherical sections **8** engage partly inside the recessed ends of the bearings **13** and are held fast therein. Thus, although primarily intended for use with a watch case having cross-bars for its attachment, it may be secured to watch cases of a different type provided with hinge members constituted by transversely recessed bearings.

In the modification illustrated in Figs. 5 to 8, the U-shaped part carrying the spherical sections **8** is constituted by two arms **14** pivotally secured together at **15**. The pivotal axis is constituted by the stem **16***a* of a screw **16** (Fig. 8) screwed into an intermediate member **17** to which the corresponding arcuate arm of the wrist band which is not illustrated is pivotally secured at **18**. The spacing between the spherical sections may be modified in keeping with the thickness of the bearing members **13** provided on the watch case (Fig. 6) or with the breadth of the lug cross-bar **10** similarly provided on the watch case (Fig. 5).

The spherical sections **8** in Figs. 5, 7 and 8 are provided each, as in the case of the first embodiment disclosed, with a transverse notch **9** adapted to engage the transverse bar **10** of the lug on the watch case.

It should be remarked that clearances **19** are formed in each intermediate piece **17** to allow the arms **14** of the U-shaped part to extend therein with some play while said clearances are slightly less deep than the thickness of the arms so that the screw **16** may reliably lock said arms in position.

What I claim is:

1. In a wrist-band adapted to be secured to a watch case including lug cross-bars at each end of the case, the combination of two rigid arcuate arms, each said arm being pivotally secured to an intermediate member on opposite sides of said case, yielding metallic interconnected means carried by the corresponding intermediate members to interconnect the latter on the outside of the lower surface of said watch case, a bifurcated part carried by each intermediate member near the point at which the latter is pivotally secured to the corresponding arcuate arm and means carried by each end of each bifurcated part and adapted to engage a watch case cross-bar.

2. In a wrist-band adapted to be secured to a watch case including lug cross-bars at each end of said case, the combination of two rigid arcuate arms, each said arm being pivotally secured to an intermediate member on opposite ends of said case, yielding metallic interconnected means carried by the corresponding intermediate members to interconnect the latter on the outside of the lower surface of said watch case, a slightly yielding bifurcated part carried by each intermediate member near the point at which the latter is pivotally connected to the corresponding arcuate arm and spherical sections rigid with the outer ends of the yielding bifurcated part provided with transverse slots, said spherical sections being adapted to engage through said slots the cross-bar of the lug on the watch case which faces the corresponding bifurcated part.

3. In a wrist-band, adapted to be secured to a watch case including lug cross-bars at each end of the case, the combination of two rigid arcuate arms, each said arm being pivotally secured to an intermediate member on opposite ends of said case, yielding metallic interconnected means carried by the corresponding intermediate members to interconnect the latter on the outside of the lower surface of said watch case, a bifurcated part including two arms pivotally secured to each intermediate member near the point at which the latter is pivotally connected to the corresponding arcuate arm, a screw extending along the pivotal axis of the two arms of each

bifurcated part and adapted to lock said last-mentioned arms in the desired angular setting and means carried by each end of each bifurcated part and adapted to engage a watch case cross-bar.

4. In a wrist-band adapted to be secured to a watch case including lug cross-bars at each end of said case, the combination of two rigid arcuate arms, each said arm being pivotally secured to an intermediate member on opposite ends of said case, yielding metallic interconnected means carried by the corresponding intermediate members to interconnect the latter on the outside of the lower surface of said watch case, a slightly yielding bifurcated part including two arms pivotally secured to the intermediate member near the point at which the latter is pivotally connected to the corresponding arcuate arm, a screw extending along the pivotal axis of the two arms of each bifurcated part and adapted to lock said last-mentioned arms in the desired angular setting and spherical sections rigid with the outer ends of the bifurcated part provided with movable transverse slots, said sections being adapted to engage through said slots in said spherical sections the cross-bar of the lug on the watch case which faces the corresponding bifurcated part.

5. In a wrist-band adapted to be secured to a watch case including lug cross-bars at each end of said case, the combination of two rigid arcuate arms, each of said arms being pivotally secured to an intermediate member on opposite ends of said case, a resilient metal strip carried by each intermediate member and adapted to extend on the outside of the lower surface of the watch case to be carried by the wrist-band, one of the strips being provided with transverse openings for frictional engagement by the other strip, a bifurcated part carried by each intermediate member near the point at which the latter is pivotally connected to the corresponding arcuate arm and means carried by each end of each bifurcated part and adapted to engage a watch case cross-bar.

6. In a wrist-band adapted to be secured to a watch case including lug cross-bars at opposite ends of said case, the combination of two rigid arcuate arms, each said arm being pivotally secured to an intermediate member at said opposite ends, a resilient metal strip carried by each intermediate member and adapted to extend on the

outside of the lower surface of the watch case to be carried by the wrist-band, one of the strips being provided with transverse openings for frictional engagement by the other strip, a bifurcated part carried by each intermediate member near the point at which the latter is pivotally connected to the corresponding arcuate arm and spherical sections rigid with the outer ends of each bifurcated part provided with transverse slots movable relative to each other, said sections being adapted to engage through the slots in said spherical sections the cross-bar of the lug on the watch case which faces the corresponding bifurcated part.

7. In a wrist band adapted to be secured to a watch case including a transverse attaching cross-bar across opposite ends of said case, in combination: two rigid arcuate arms, each said arm being pivotally secured to an intermediate member on opposite sides of said case, resilient metallic attachment members connected to each said intermediate member and adapted to extend under the lower surface of said case slidably and interconnecting said intermediate members at a finite distance from each other; two angularly spaced arms carried by each said intermediate member and forming the end of each said attachment member near the point at which said intermediate members are pivotally secured to the corresponding arcuate arm, and means carried by the ends of each angularly spaced arm and adapted to engage the corresponding watch case cross-bar.

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