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1,498,070

A. BEUCKE

STRAP ATTACHMENT FOR WRIST WATCHCASES

Filed Dec. 9, 1922

Fig. 1.

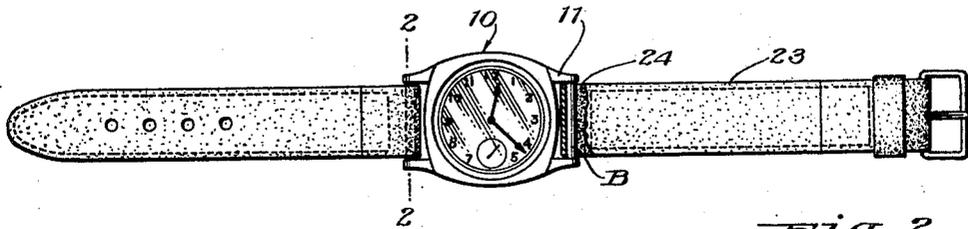


Fig. 3.

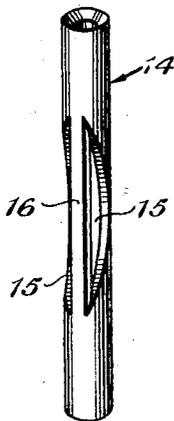


Fig. 4.

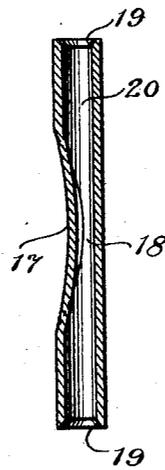


Fig. 2.

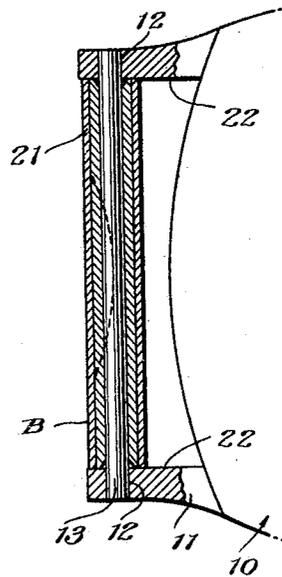


Fig. 5.

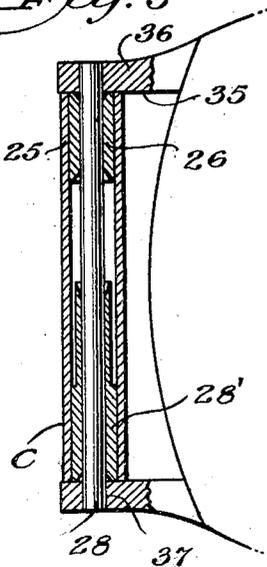


Fig. 6.

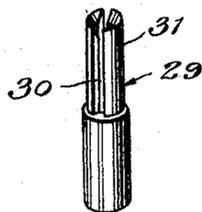


Fig. 7.

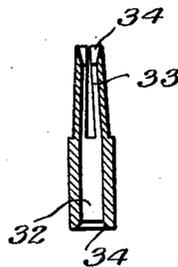
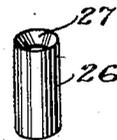


Fig. 8.



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UNITED STATES PATENT OFFICE.

AUGUST BEUCKE, OF NEWARK, NEW JERSEY, ASSIGNOR TO THE KEYSTONE WATCH CASE COMPANY, OF PHILADELPHIA, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

STRAP ATTACHMENT FOR WRIST WATCHCASES.

Application filed December 9, 1922. Serial No. 605,937.

To all whom it may concern:

Be it known that I, AUGUST BEUCKE, a citizen of the United States, and a resident of Newark, in the county of Essex and State of New Jersey, have made and invented certain new and useful Improvements in Strap Attachments for Wrist Watchcases, of which the following is a specification.

My invention relates to a wrist watch case and more particularly to that portion of the case to which the wrist strap or ribbon is secured and has for its object to provide for the ready attachment of a strap or ribbon to the case or its removal therefrom.

A further object is to provide a wrist watch case having removable bars, which bars may be inserted through permanently sewed loops at the ends of the strap or ribbon and easily attached to the watch case, so that a ribbon or strap may be attached to or detached from the wrist watch case without requiring that the sewing or stitching at the end or loop of the strap be severed or destroyed.

A further object is to accomplish the aforementioned ends in such manner that although the strap or ribbon may be readily attached to or disconnected from the watch case there will be no danger or likelihood of the watch becoming accidentally detached from the strap or ribbon.

A further object is to provide a wrist watch case having removable bar hangers of simple design, one which may be readily and economically manufactured and of strong and rigid construction throughout, and at the same time to provide a wrist watch case which is of simple and neat appearance and pleasing design.

With the foregoing and other objects in view, my invention consists in the improved wrist watch case illustrated in the accompanying drawing and hereinafter described and claimed, and in such variations and modifications thereof as will be obvious to those skilled in the art to which my invention relates, it being understood that changes may be made within the scope of what is claimed without departing from the spirit thereof.

The preferred embodiment of my invention is disclosed in the accompanying drawing, wherein:

Figure 1 is a plan view of a wrist watch case embodying the characteristic features of my invention and illustrating a strap or ribbon secured thereto;

Figure 2 is an enlarged sectional view taken on the line 2—2 of Figure 1;

Figure 3 is an enlarged detail view in perspective of the friction member during one stage of its manufacture;

Figure 4 is an enlarged sectional view of the completed friction member;

Figure 5 is an enlarged view in section of a somewhat modified form of the removable bar hanger;

Figure 6 is an enlarged detail view in perspective of the modified form of friction member;

Figure 7 is a view in longitudinal section of the same; and

Figure 8 is an enlarged detail view in perspective of the bushing used in the modified form of removable bar hanger.

Referring specifically to the several views, wherein similar reference numerals designate corresponding parts throughout, the wrist watch case 10 is provided upon opposite sides with the outstanding arms 11 which are provided adjacent their outer extremities with the aligned openings 12. These aligned openings are adapted to receive a pin 13 therethrough, the pin being preferably formed of steel and seating snugly within but not binding with the side walls of the aligned openings.

A friction member 14, as illustrated in Figure 3, is preferably formed of a short piece of metal tubing and is subjected to the action of spaced milling cutters so as to have formed therein the two spaced slots 15 extending entirely through the side walls of the tube and forming between said slots the strip 16. The strip 16 is then subjected to an inwardly bending force so as to curve or bend it inwardly as at 17 in Figure 4 and thereby partially restrict the portion 18 of the opening 20 which extends throughout the tube.

The ends of the tubing are preferably chamfered or bevelled as at 19, so as to aid in the passing of the pin 13 through the opening 20, the latter being of such size as to snugly receive the pin therethrough.

As illustrated in Figure 2, a sleeve 21,

preferably formed of or coated with precious metal, receives the friction member 14 therein, the opening within the sleeve and the external diameter of the friction member being such that after the friction member has once been pressed into place within the sleeve it will permanently remain so positioned.

The sleeve and friction member thus constitute a bar B and are of such length as to fit nicely between the confronting walls 22 of the supporting or hanger arms 11 of the case.

In order to assemble the removable bar in position it is placed between the confronting arms 11 and the opening 20 of the friction member drawn into alignment with the openings 12 of the arms. The steel pin 13 is then forcibly pressed through the friction member, engages the inwardly bent strip 16, and forces it outwardly against the natural resiliency of this strip and is then pressed onwardly through the opening 12 of the remote hanger arm. The pin 13 is of such length as to extend flush with the outer surfaces of the two arms when thus pressed into position. The outward forcing of the strip 16 provides for a considerable amount of friction between the removable bar B and the pin, causing the latter to remain in place but at the same time allowing it to be readily removed when so desired.

In Figures 5 to 8 I have illustrated a somewhat modified form of my invention wherein the removable bar C is formed of an outer sleeve 25 and in the end of one end of which is forcibly pressed a bushing 26, the two ends 27 thereof being suitably bevelled so as to facilitate the passage of the pin 28 therethrough.

At the remote extremity of the sleeve is provided a friction member 28', the same being also formed of a short length of tubing having one end thereof reduced in diameter as at 29, and which reduced portion is provided with a longitudinally extending transverse slot 30, forming two resilient prongs 31. The prongs 31, as illustrated in Figure 7, are then bent together so that the opening 32 which extends through the tube is restricted or narrowed as at 33 and of relatively less size than the diameter of the pin 28. The ends of the friction member 28' are also chamfered or bevelled as at 34, so that after it has been forcibly pressed into position at the one extremity of the sleeve the steel pin 28 may be readily inserted through the one end thereof. With the removable bar C as thus constructed and placed between the confronting surfaces 35 of the hanger arms 36, the pin 28 is forcibly passed through one of the openings 37 in the arms, through the friction member 28', thereby forcing or

spreading the resilient prongs 33 apart and then through the remote bushing 26 and into the aligned opening 37 of the remote arms. The prongs 33 forcibly grip the side walls of the pin 28 and thus prevent it from being accidentally shaken or jarred from place. It is to be understood in connection with the foregoing that my novel removable bar and pin construction may be utilized in connection with other devices besides watch cases, as, for example, it may be used in connection with a buckle or in any other relation where the fastening of a loop to a frame or support is desired.

With the removable bar B as constructed in the preferred form or as C in the modified form, it may be readily passed through a permanent loop 24 at the ends of a strap or ribbon 23 and then positioned between the hanger arms and the pin inserted in place, and, in like manner, when so desired, a direct end pressure upon the steel pin will force it from the hanger bar and allow the latter to be readily removed and the strap or ribbon to be thus disconnected from the wrist watch case.

Having thus described and explained my invention, I claim and desire to secure by Letters Patent:

1. In an article of the character described, the combination of spaced hanger arms having aligned openings therein, a tubular bar extending between said hanger arms with the bore thereof aligned with the said openings, a friction member located within said tube and having an opening extending there-through, portions of said friction member extending toward the axis thereof and constricting the said opening, and a pin extending through the openings in said hanger arm and through the said bar and engaged by said friction member and held in position thereby.

2. An article of the character described consisting of hanger arms having aligned openings therein, a removable bar extending between said hanger arms, having an axial opening extending therethrough and aligning with the openings in the arms, a friction member with an opening extending therethrough and with bevelled ends communicating with said openings, said friction member having portions thereof restricting the opening through said friction member, and a pin extending through the openings in the hanger arms, through said friction member, and frictionally held in place by the latter.

3. An article of the character described comprising hanger arms having aligned openings therein, a removable bar extending between said hanger arms and having an opening therethrough aligning with the openings in the hanger arms, a friction member rigidly contained within said tube

and including resilient prongs restricting
the opening through said friction member,
and a pin free from obstructions or de-
pressions extending through the openings
5 in the hanger arms and frictionally en-
gaged by the prongs of the friction mem-
ber and held in place thereby and there-
by holding the removable bar between said
hanger arms.

Signed at Newark, in the county of Essex 10
and State of New Jersey, this 5th day of
December A. D. 1922.

AUGUST BEUCKE.

Witnesses:

JOHN L. METZGAR,
JOHN J. McGRATH.