April 2, 1929. J. W. SHOEMAKER 1,707,582

WRIST BAND

Filed Sept. 28, 1927

Fig 1.

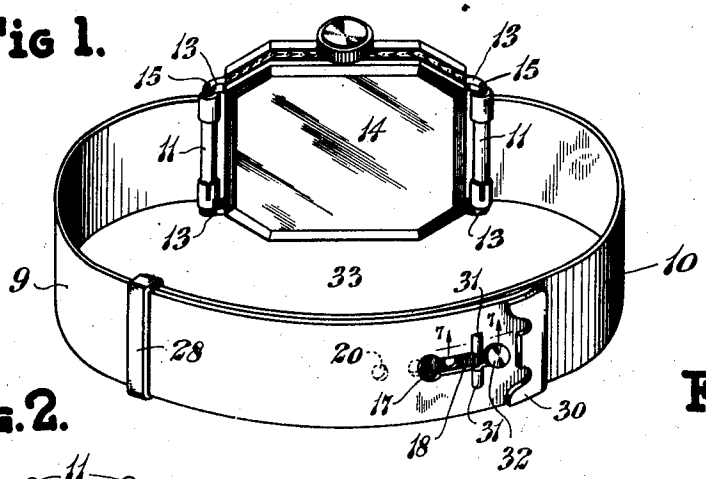


Fig. 4.

Fig. 2.

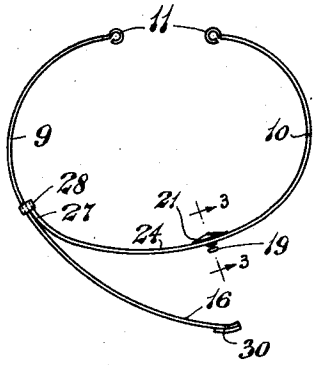
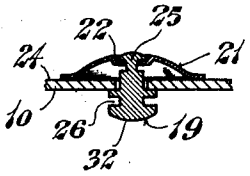


Fig. 3.



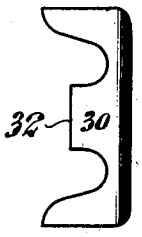


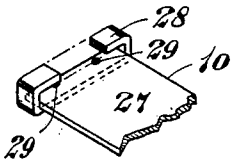
Fig. 7.



Fig. 5.



Fig. 6.



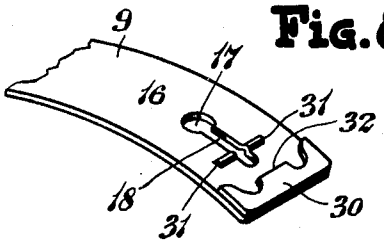
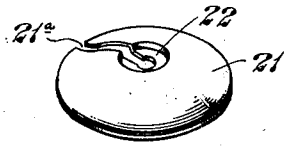


Fig. 8.

Fig. 9.



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Patented Apr. 2, 1929. 1,707,582

UNITED STATES PATENT OFFICE.

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WRISTBAND.

Application filed September 28, 1927. Serial No. 222,628.

This invention relates to wrist bands and more particularly to locking means therefor for insuring against unintentional separation of the band sections.

The objects of this invention are to provide simple, efficient, convenient and inexpensive means for adjustably securing the sections of a metal wrist band against accidental separation from each other.

Further objects or advantages will become apparent as the description proceeds.

The invention consists in the construction, combination, location and arrangement of parts as hereinafter more fully set forth and claimed.

In the drawing:

Fig. 1 is a perspective view of my improved wrist band shown in closed and secured position and attached to a watch case;

Fig. 2 is a side elevation of my improved band shown partly expanded and in open position;

Fig. 3 is an enlarged sectional view taken on a plane corresponding to line 3—3 of Fig. 2;

Fig. 4 is a detail view of the finger catch;

Fig. 5 is an edge elevation thereof;

Fig. 6 is a fragmentary detail perspective view of the retaining loop fixed to one end of one of the band sections and shown partly in vertical section and broken and dotted lines;

Fig. 7 is a sectional view taken on a plane corresponding to line 7—7 of Fig. 1;

Fig. 8 is a detail view in perspective showing the end of the band section carrying the finger catch; and

Fig. 9 is a perspective view of the spring clamp.

In the embodiment of my invention as illustrated and which shows a preferred construction I provide a wrist band or bracelet comprising band sections 9 and 10, made of suitable material but preferably of flat metal. Tubular portions 11 on one end of band sections 9 and 10 extend between the lugs 13 integral with watch case 14 and receive the usual detachable pin bars 15. End 16 of band section 9 has a perforation 17 and a communicating reduced slot 18 therethrough forming an opening or key slot for receiving a double headed stud 19 adjustably retained on band section 10. Said band section 10, as shown in Fig. 1, has a plurality of spaced longitudinally arranged holes 20 therethrough adapted to align with slot 18 in end 16 of band section 9. Spring clamp 21 frictionally engages the inner face 24 of band section 10. Recess 22, formed in said clamp, engages reduced head 25 of said stud 19, thereby adjustably securing said stud 19 within any one of the desired holes 20 in the band section 10. Said stud 19 is provided with an annular groove 26, the bottom of which is of a diameter such as to be slidably received in slot 18. End 27 of band section 10 is provided with a retaining loop 28, which is securely attached thereto in any suitable manner, as for example, by small rivets 29. The outer end 16 of band section 9 is provided with a finger catch 30, which catch is soldered to said end in the position clearly illustrated in Fig. 8, or it may be an integral part of said section 9. End 16 of band section 9 is provided with raised portions or obstructions 31 oppositely disposed on each side of slot 18, which obstructions serve to retain headed stud 19 within the closed end of slot 18, thus preventing said stud 19 from accidentally working its way into alignment with perforation 17 and thus allowing said band sections to expand or separate from one another, as shown by Fig. 2.

To operate my improved band, assume that it is in the position shown in Fig. 1. To expand the band sufficiently for placing it upon the wrist of the wearer over the hand, simply place the thumb or finger nail against the edge 32 of finger catch 30 and push said finger catch and band section 9 in a direction away from said stud 19. This pressure will cause said obstructions 31 to pass beneath head 32 of headed stud 19 and allow said stud to be aligned with perforation 17, whereupon said stud may be removed from engagement with end 16 of band section 9 and said sections 9 and 10 drawn apart or expanded until loop 28 engages or strikes against finger catch 30 whereupon the band thus expanded will permit the ready withdrawal of the hand therethrough. To adjust said headed stud 19 from one of the holes 20 to another (to adapt said band to different sized wrists) simply remove spring clamp 21 from engagement with stud 19 by forcing it edgewise so that the stud will disengage therefrom through slot 21a, remove said stud and insert it in the desired hole 20 and then replace said clamp in holding relation with said stud.

An advantage of this invention is that once the stud 19 has been locked within slot

18, as by obstructions 31, it is held against accidental separation.

My invention is capable of modification without departure from its scope or spirit as defined in the claims, as for instance, the band may be formed in one section as when used as a bracelet, or it may be formed of a plurality of sections, such as shown.

What I claim as new and desire to secure by Letters Patent is:

1. Means for detachably connecting the overlapping end portions of a metallic band having a key-slot in one overlapping end portion and comprising raised portions on opposite sides of the narrow portion of said slot and in spaced apart relation from its closed end, in combination with a headed stud attached to the cooperating overlapping end portion whereby said head is adapted to pass through the enlarged end of said key-slot and be moved longitudinally past said raised portions and whereby said raised portions will frictionally engage the edge of said head to hold it between said raised portions and the closed end of the narrow portion of said slot and whereby said overlapping portions are held in detachable relation with each other.

2. Means of the character described for adjustably mounting a headed stud in any one of a series of holes in the end portion of a metallic band comprising a stud having a head provided with an annular groove and having a shank adapted to enter any one of said holes, with a reduced head on said shank, in combination with a resilient dished slotted clamp having a recess adjacent the closed end of said slot to receive said reduced head whereby said stud is adapted to be securely but detachably held in adjusted position in any one of said holes, for the purposes specified.

3. Means for detachably connecting the overlapping end portions of a resilient metallic band having a key slot in one overlapping end portion and comprising an obstruction adjacent the narrow portion of said slot and in spaced apart relation from its closed end, in combination with a headed stud attached to the cooperating end portion whereby said head is adapted to enter the enlarged end of said key-slot and be moved longitudinally past said obstruction and whereby said obstruction will detachably hold said head between said obstruction and said closed end, for the purposes specified.

4. Means of the character described for for detachably connecting the overlapping end portions of a metallic band having a key slot in one overlapping end portion and comprising an obstruction adjacent the narrow portion of said slot and in spaced apart relation from its closed end, in combination with a stud adjustably mounted in any one of a series of holes in the cooperating overlapping end portion, said stud having a reduced head, and having a head provided with a groove adapted to receive the walls of the narrow portion of said key-slot, and a dished slotted spring clamp detachably mounted between said band and the reduced head of said stud, for the purposes specified.

5. Means of the character described for adjustably mounting a stud in any one of a series of holes in the end portion of a metallic band comprising a stud having a shank, a head on one end of said shank adapted to enter any one of said holes, a head on the other end of said shank, in combination with a resilient dished slotted clamp to receive said second head whereby said stud is adapted to be securely but detachably held in adjusted position in any one of said holes.

6. Means of the character described for adjustably mounting a stud in any one of a series of holes in the end portion of a metallic band comprising a stud having a shank, a head on one end of said shank adapted to enter any one of said holes, a head on the other end of said shank, in combination with a resilient dished slotted clamp to receive said second head whereby said stud is adapted to be securely but detachably held in adjusted position in any one of said holes, and a finger catch on one end of said band, substantially as specified.

JOHN W. SHOEMAKER.