May 31, 1949. B. MAESTRI 2,471,694

ADJUSTABLE METALLIC WRIST BAND

Filed Feb. 15, 1946

Fig. 1

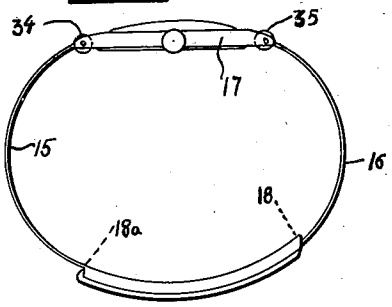


Fig. 2

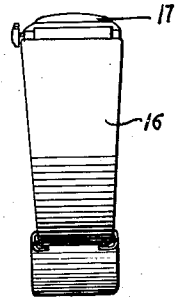


Fig. 3

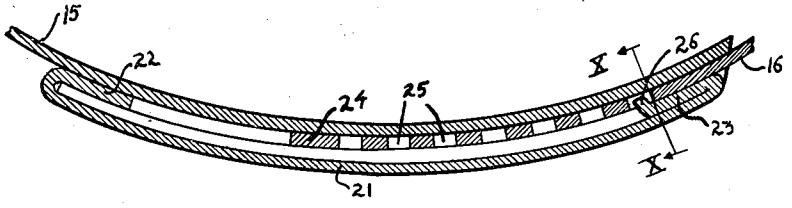


Fig. 4

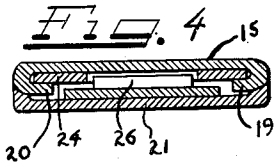


Fig. 5

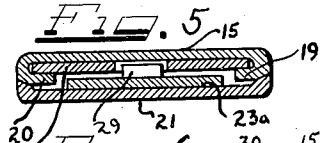


Fig. 6

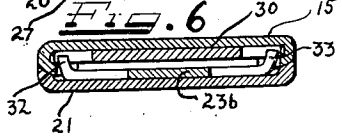


Fig. 7

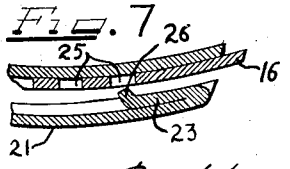


Fig. 8

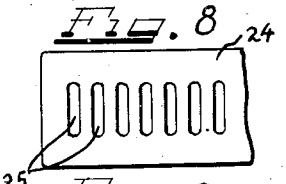


Fig. 9

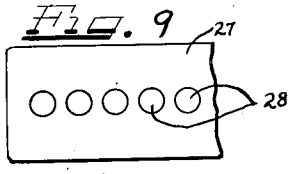
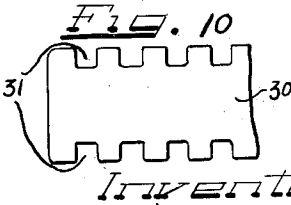


Fig. 10



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ADJUSTABLE METALLIC WRIST BAND

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7 Claims. (Cl. 24—206)

1

The present invention relates to an adjustable metallic wrist band for a watch or the like wherein the parts are readily connected and disconnected by a relative endwise movement.

The band of the present invention contemplates two separable parts which are connectible and disconnectible by relative endwise movement, with one part formed with a hood to receive the other part, and with means effective within the hood for connecting said parts together.

An object of the present invention is to provide an adjustable metallic wrist band of separable parts which may be readily connected and disconnected.

Another object of the present invention is to provide a two-part metallic wrist band in which one part is provided with a locking tongue or member for locking engagement with apertures or recess means in the other part, the parts being connected by simple push action and disconnected by lifting movement of the tongue.

A still further object of the present invention is to provide a two-part metallic wrist band with one part carrying a resilient locking tongue engageable with transverse slots in the other part.

The invention has for an additional object the provision of an adjustable metallic wrist band comprising two separable parts one of which carries a tongue engageable with apertures in the other part.

Another and still further object of the present invention is to provide an adjustable metallic wrist band of two separable parts, one part having a tongue engageable with notches in the other part.

A yet further object of the present invention is to provide an adjustable metallic wrist band of two parts, one part having a hood enterable by the other part, the hood being provided with a resilient detent-carrying portion which is movable to unlock the parts.

A further object of the present invention is to provide an adjustable metallic wrist band economical to construct and assemble and which is composed of parts readily made by machinery.

Generally speaking one part of the wrist band is formed with a hood having a cover capable of resilient or hinging movement, which cover carries detent means engageable with suitably shaped recess or aperture means formed in the other part for locking the parts together when said other part has been inserted in the hood.

Embodiments of the present invention are illustrated in the accompanying drawing and the views thereof are as follows:

2

Figure 1 is a side elevational view of a wrist band of the present invention shown as supporting a watch, with the separable parts connected;

Figure 2 is a plan view of the band of Figure 1;

Figure 3 is an enlarged fragmental longitudinal sectional view through the hood portion of the band showing the connection of the parts against separation;

Figure 4 is an enlarged transverse sectional view taken in the plane of line X—X of Figure 3 and showing an elongated transversely extending detent for engagement with any one of a plurality of transverse slots in the coacting band part;

Figure 5 is a similar sectional view taken in the same plane of a band in which the detent is cylindrical for engaging circular holes in the coacting band part;

Figure 6 is a sectional view taken in the same plane of an arrangement wherein laterally spaced lugs engage side notches formed in the coacting band part;

Figure 7 is a fragmental enlarged view showing separation of the cover or resilient tongue of the hood for disconnecting the band parts;

Figure 8 is a fragmental plan view of a portion of a coacting band part provided with transversely extending slots;

Figure 9 is a similar view showing the coacting band part provided with a plurality of circular holes; and

Figure 10 is a fragmental plan view of a coacting band part provided with side notches.

The drawing will now be explained.

Referring to Figure 1 an adjustable metallic wrist band of the present invention comprising parts 15 and 16 is shown as fastened to a wrist watch 17, with the parts 15 and 16 in connected relationship.

Referring to Figures 1 and 4, a portion of the part 15 of the band, indicated as lying between the line designated by reference characters 18a and 18, is shown as down and inturned, forming flanges 19 and 20 which are spaced from the adjacent part 15. The flanges are substantially coextensive with the length of the portion between the reference characters 18a and 18.

A cover or resilient tongue 21 has one end inturned at 22 which inturned end is entered underneath the flanges 19 and 20, at one end of the portion 18a—18 to connect the cover or resilient tongue in position to cooperate with the flanges to form a hood.

It will be noted that the side margins of the

cover 21 are thickened to rest against the flanges, as may be observed in Figures 4, 5 and 6.

A portion of the opposite end of the cover member 21 is inturned at 23 with the inturned portion pressed tightly against the inner surface of the cover as may be readily observed in Figure 3. The inturned portion 23 is provided with detent means.

For convenience, the end of the cover 21 carrying the inturned portion 22 which secures the cover to the part 15, will be referred to as a hinged end, while the other end of the cover will be referred to as the free end.

In assembling the parts the fit between the inturned part 22 of the cover 21 and the flanges 19 and 20 is such as to securely fasten the cover in place against displacement.

Due to the curvature of the parts 15 and 16, the cover 21 is correspondingly curved, as may be observed in Figure 3, which rigidifies the cover and aids in retaining it in place to complete the hood.

The part 16 of the band has a portion identified in Figure 8 as 24 for entrance into the hood to connect the band parts together. This portion 24 of the part 16 is provided with a plurality of transversely extending slots 25, there being a sufficient number of slots to accommodate the wrist band to wrists of different sizes.

For cooperating with the transverse slots 25 of the portion 24 of the band part 16, detent means are provided. Figure 4 shows a detent 26 as a transversely extending deflected portion of the inturned part 23 of the free end of the cover 21. The length of the detent is slightly less than the length of the slots 25.

The portion 24 of the part 16 is inserted in the hood of the part 15 by a push action and is pushed into the hood until the wrist band is comfortably tight on the wrist of the wearer whereupon the detent 26 will clamp into one of the transverse slots 25 and lock the parts together. During the push action the detent means 26 will ride over the notches in the portion 24, as the cover is capable of resilient or hinging movement with respect to its hinged ends.

Referring to Figure 4 it will be noted that the portion 24 is inserted underneath the flanges 19 and 20. The construction is such that when the parts are connected as described, very little if any relative swinging movement takes place between the connected parts.

Figure 9 shows a portion 27 of the parts 16 as provided with a plurality of circular holes 28. Where the part 16 is provided with the portion 27, the inturned part 23a of the cover 21 will be provided with a cylindrical detent 29, the detent 29 engaging any one of the holes 28 when the band is fitted to the wrist of the wearer.

In this form of the invention the parts 15 and 16 are connected by a simple push action and are disconnected by lifting the free end of the cover 21 to disengage the detent 29 from its engaged hole 28.

Referring to Figures 6 and 10, the portion 30 of the part 16 is provided with notches 31 formed in the side margins with a notch on one side in register with a notch on the opposite side.

For cooperating with the notches 31 the inturned end 23b of the cover 21 is formed with laterally spaced lugs 32 and 33, the lugs 32 and 33 engaging with any oppositely disposed pair of notches 31 of the portion 30 inserted in the hood.

It will be noted that all of the portions of the part 16, which enter the hood, enter between the flanges 19 and 20 of the part 15. The proportions of the detent means and the recess or aperture means are such as to lock the parts 15 and 16 together without appreciable relative movement.

The fact that the portions 24, 27 and 30 enter underneath the flanges 19 and 20 prevents relative sidewise movement of the connected parts 15 and 16.

Whenever it is desired to remove the band from a wrist, the free end of the cover or resilient tongue 21 is lifted by inserting a fingernail under this end lifting it a sufficient distance to disengage the detent means with the recess or aperture means of the cooperating band part.

Because of the construction described and illustrated, the resilient tongue or cover 21 exactly conforms to the contour of the flanges 19 and 20 without presenting any evidence of the fact that the tongue or cover is relatively movable with respect to the part 15.

The extremities of the band parts 15 and 16 are provided with eyes 34 and 35 to receive the usual pins for fastening the wrist watch 17 to the band parts.

It will be observed that the wrist band of the present invention is one in which the several parts may be readily manufactured and shaped by machinery, the only assembly operation being that of applying the resilient tongue or cover 21 in place on the part 15 as illustrated in Figure 3.

Because of the construction and design of the parts entering into the present invention, it is possible to make the metallic wrist band of relatively thin material, so that its weight will not be such as to constitute a discomfort to the wearer.

The wrist band of the present invention is one which may be readily applied to or removed from the wrist of a wearer, with full assurance that when applied the parts will not accidentally become separated.

The invention has been described herein more or less precisely as to details, yet it is to be understood that the invention is not to be limited thereby, as changes may be made in the arrangement and proportion of parts, and equivalents may be substituted, without departing from the spirit and scope of the invention.

I claim as my invention:

1. A two-part separable metallic wrist band comprising one part having the opposite margins of a portion of its length downwardly and inturned forming flanges, a cover overlying said flanges to form a hood, one end of said cover being inturned and hooked underneath said flanges at one end of said portion with the other end of said cover free, said cover being capable of slight movement about said one cover end as a hinge towards and away from said flanges, said cover having detent means inwardly of its free end, said other part having a portion enterable in said hood and under said flanges, said other part portion having a series of recess means for selective engagement with said detent means to lock said two parts together in adjusted relation, and said parts being disconnected by lifting the free end of said cover.

2. A two-part separable metallic wrist band comprising two parts connectible and disconnectible by relative endwise movement, one of said parts having an open ended hood portion for receiving the other of said parts through its open end, said hood including a cover hingedly connected at one end to said one part and disposed

with its other end defining a portion of the open end of said hood portion, said cover having an integral part thereof inturned adjacent said other end, said inturned part supporting detent means, the other of said band parts having a portion enterable in said hood which portion is formed with recess means for interlock with said detent means for connecting said band parts together, and said cover being liftable at its other end to disengage the detent and recess means for separation of said band parts.

3. A two-part separable metallic wrist band comprising two parts connectible and disconnectible by relative endwise movement, one of said parts having an open ended hood portion for receiving the other of said parts through its open end, said hood including a cover hingedly connected at one end to said one part and disposed with its other end defining a portion of the open end of said hood portion, said cover having an integral part thereof inturned adjacent said other end, said inturned part supporting an elongated detent arranged with its length crosswise of the hood, the other of said band parts having a portion enterable in said hood which portion is formed with a plurality of elongated transversely extending recesses for interlock with said detent for connecting said band parts together, and said cover being liftable at its said other end to disengage the detent from its engaged recess for separation of the band parts.

4. A two-part separable metallic wrist band comprising two parts connectible and disconnectible by relative endwise movement, one of said parts having an open ended hood portion for receiving the other of said parts through its open end, said hood including a cover hingedly connected at one end to said one part and disposed with its other end defining a portion of the open end of said hood portion, said cover having an integral part thereof inturned adjacent said other end, said inturned part supporting a cylindrical detent, the other of said band parts having a portion enterable in said hood which portion is formed with a plurality of circular holes for interlock with said detent for connecting said band parts together, and said cover being liftable at its other end to disengage the detent from a hole for disconnection of the band parts.

5. A two-part separable metallic wrist band comprising two parts connectible and disconnectible by relative endwise movement, one of said parts having an open ended hood portion for receiving the other of said parts through its open end, said hood including a cover hingedly connected at one end to said one part and disposed with its other end defining a portion of the open end of said hood portion, said cover having an integral part thereof inturned adjacent said other

end, said inturned part supporting two laterally spaced lugs, the other of said band parts having a portion enterable in said hood which portion is formed with notches along its side margins for interlock with said lugs for connecting said band parts together, and said cover being liftable at its said other end to disengage the lugs from the notches for separation of the band parts.

6. A two-part separable wrist band comprising a curved strap member having opposed marginal flanges on a portion of its length, a resilient cover member curved to lie over said curved strap having one end inturned and hooked under said flanges, a detent member at the other end of said strap, a curved bar having recesses to receive a detent member therein, said bar being arranged to slide under the flanges of said strap member and a detent member secured at one end of said cover member movable into one of the recesses in said bar, the curved shape of said resilient cover member and hooked end portion thereof coacting to permit a slight bending movement of said cover member about the hooked end portion and to urge the detent into the slots.

7. An adjustable wrist band comprising a curved strap member having the opposite margins of a portion of its length downwardly and inturned forming flanges, a resilient cover member curved to lie over said strap having one end inturned and hooked under said flanges, the other end of said cover being folded over to lie against the strap member spacing the cover member thereabove, a curved bar of a thickness to telescope under the flanges of the strap member and having a plurality of elongated transversely extending slots, a detent member on the folded-over portion of said cover member movable by the resiliency of said cover member selectively into one of said recesses, the detent member being inclined toward the fixed end of said cover member for resisting the pull of said curved bar member.

BENJAMIN MAESTRI.

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