Sept. 9, 1958 D. MEGAR 2,850,783

WATCH BAND CONNECTION

Filed May 17, 1954 2 Sheets-Sheet 1

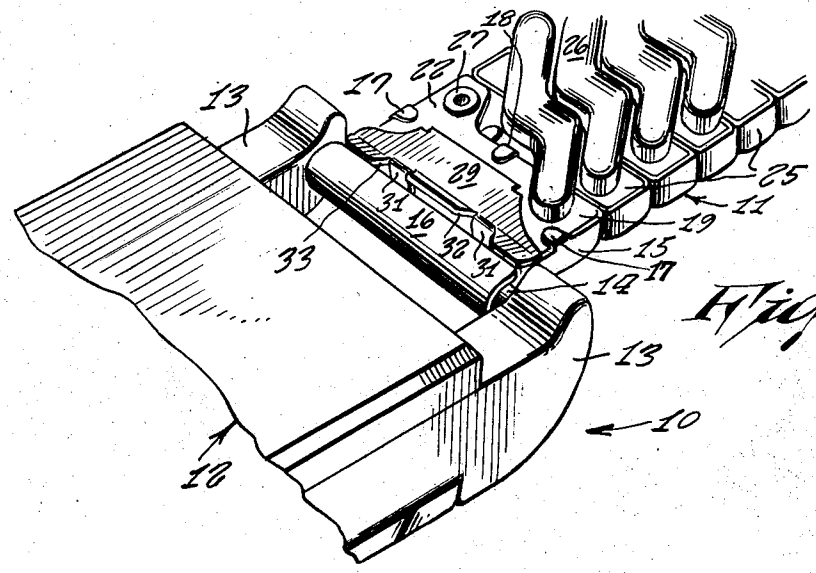


Fig. 1

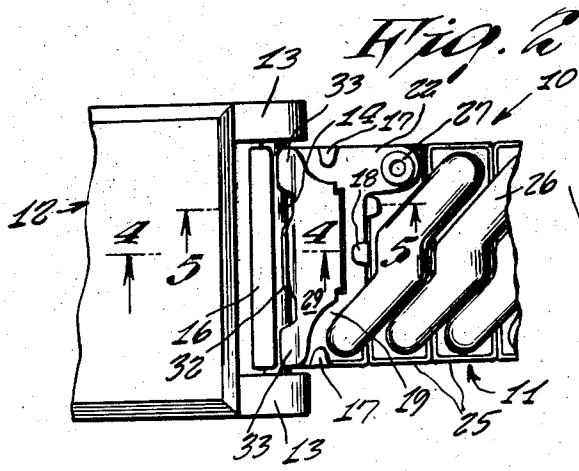


Fig. 2

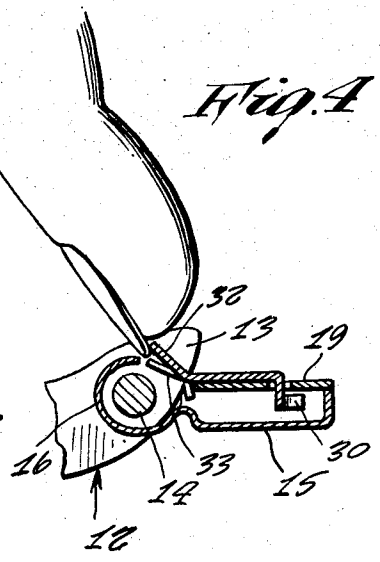


Fig. 4

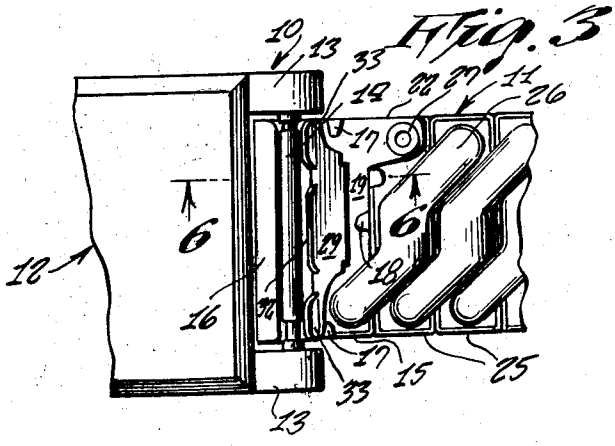


Fig. 3

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Fig. 5

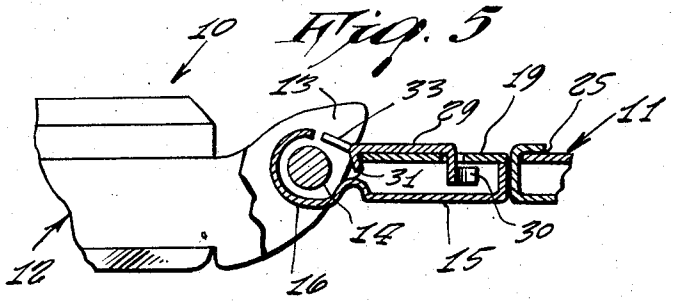
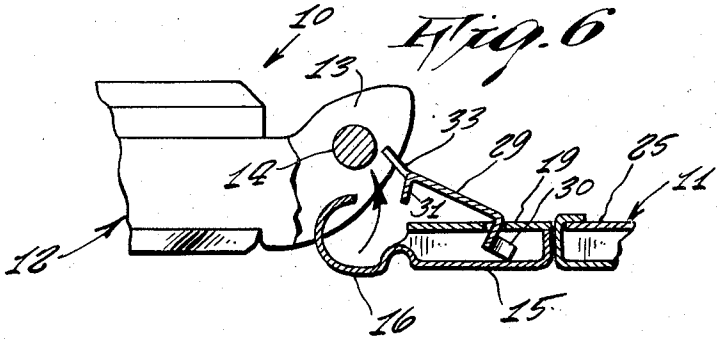


Fig. 6



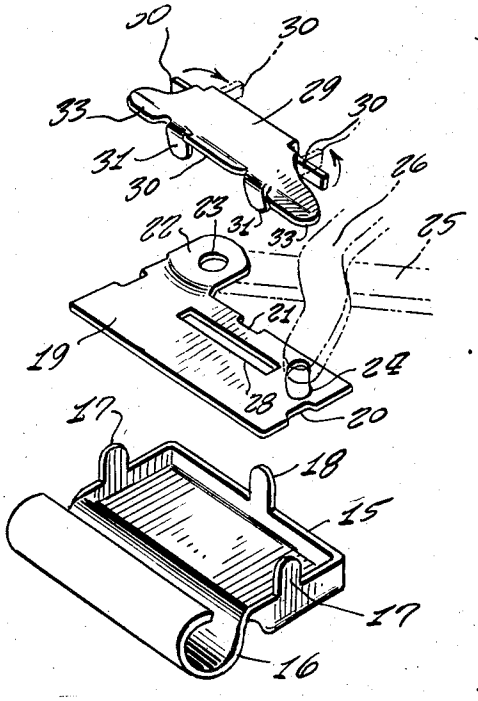


Fig. 7

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2,850,783

WATCH BAND CONNECTION

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Application May 17, 1954, Serial No. 430,163

6 Claims. (Cl. 24—265)

This invention relates generally to a fastening device and more particularly to a device for fastening the ends of a wrist band to a wrist watch.

The main object of the invention resides in the provision of a watch band attaching device which may be easily and readily opened and closed upon the insertion of a finger nail.

A further object of the invention resides in the provision of a watch band attaching device which may be easily and readily opened and closed without the need for any special tools to permit the easy and ready fastening and unfastening of the wrist band with the wrist watch casing.

A further object of the invention resides in the provision of a watch band attaching device which is sturdy and durable in construction, reliable and efficient in operation, and inexpensive to manufacture and assemble.

For other objects and a better understanding of the invention, reference may be had to the following detailed description taken in connection with the accompanying drawing, in which:

Figure 1 is a fragmentary perspective view of a wrist watch showing the invention incorporated thereon;

Figure 2 is a fragmentary bottom plan view thereof and showing the device in the closed position;

Figure 3 is a view similar to Figure 2 but showing the device in the open position;

Figure 4 is a longitudinal sectional view taken along the line 4—4 of Figure 2 and showing the manner in which the device is opened;

Figure 5 is a view similar to Figure 4 but taken along the line 5—5 of Figure 2;

Figure 6 is a view similar to Figure 5 but showing the device in the open position and

Figure 7 is an exploded perspective view of the parts comprising the invention.

Referring now more in detail to the drawing, there is generallly indicated at **10** a wrist watch including an expansion bracelet **11** and a wrist watch casing **12**, both of conventional design and substantially as illustrated.

The casing **12** is integrally formed at each end with the laterally spaced ears **13** between which are removably mounted the spring urged attaching pins **14**, in the usual manner of such constructions, it being possible to remove the spring mounted pins **14** by the employment of a jeweler's tool, as is well known to those skilled in the art.

In the practice of my invention, novel means are provided for releasably attaching the ends of the expansion bracelet **11** to the shafts **14** without the requirement of any special tools and merely upon the insertion of a finger nail in a manner which will hereinafter become clear. The device according to the present invention includes a hollow rectangular casing **15** (Fig. 7) open at the top and integrally formed along one side with a substantially cylindrical portion **16** adapted to partially envelope the attaching pins **14**, the open upper edge of the casing **15** at the ends and the other side thereof being integrally formed with the lugs **17** and **18**.

A rectangular cover plate **19** is adapted to fit over the upper edge of the casing **15** and is provided at each end with the slots **20** adapted to receive upwardly therewithin the lugs **17** as well as a slot **21** along one side adapted to receive upwardly therethrough the lug **18**, the cover **19** being secured to the casing **15** by bending the lugs **17** and **18** inwardly across the upper face of the cover, as shown in Figure 1.

The side of the cover **19** near one end is integrally formed with a raised ear **22** having a central opening **23** and is provided near its other end with an arcuate slot **24**.

The expansion bracelet **11** includes the juxtaposed rectangular elements **25** and the juxtaposed S-shaped elements **26**, the rectangular elements **25** being normally urged into coincided relationship with adjacent rectangular elements by internal spring means, not shown, which also serves to normally urge the S-shaped elements **26** into coinciding relationship with the adjacent S-shaped elements, as shown in Figure 1. The free end of one of endmost rectangular elements **25** is pivotally connected to the ear **22** by means of a grommet **27** rotatably mounted within the opening **23**, while the free end of the adjacent S-shaped element **26** is slidably mounted within the arcuate slot **24** by means of a second grommet, not shown, whereby to pivotally connect one end of the expansion bracelet **11** to the cover plate, in the manner shown.

The cover plate **19** is provided with a transverse slot **28** for a purpose which will hereinafter become clear.

A clasp **29** adapted to overlie the cover plate **19** is integrally formed along one side at right angles thereto with a rectangular strip or flange **30** adapted to fit downwardly through the slot **28**, the opposite ends of the strip **30** being bent as shown in phantom in Figure 7 whereby to pivotally mount the clasp **29** within slot **28**, as will be obvious. The other side of the clasp **29** is integrally formed with the lugs **31** bent downwardly at right angles thereto and which are adapted to resiliently engage the adjacent edge of the cover plate **19**, whereby to permit the snapping engagement of clasp **29** with cover plate **19**, as shown in Figure 5. Intermediate the downwardly bent lugs **31**, the clasp **29** is integrally formed with an upwardly bent portion **32** adapted to receive a finger nail or the like thereunder whereby to permit the upward snapping of the clasp **29** out of engagement with the cover plate **19** (Fig. 4). The clasp **29** alongside each of the lugs **31** is also integrally formed with the projections **33** adapted to overlie the attaching pins **14** and to lock the latter within the substantially cylindrical portion **16** (Figs. 5 and 6) when the clasp is in the closed position.

An identical device made up of the casing **15**, cover plate **19** and clasp **29** will, of course, be provided for the other end of the expansion bracelet **11** and will similarly releasably engage the other attachment pin **14**.

In operation, with the free ends of the elements **25** and **26** connected to the cover plate **19**, the latter secured to the casing **15** by means of the lugs **17**, **18** and with the clasp **29** pivotally mounted on the cover plate **19** and in the open position, the attachment pin **14** may be inserted downwardly within the substantially cylindrical portion **16** (Fig. 6). The clasp **19** may then be snapped downwardly into the position of Figure 5 with the lugs **31** resiliently engaging the edge of the cover plate, which action causes the projections **33** to retain the attachment pin **14** within the cylindrical portion **16**. In order to remove the wrist band **11**, it is only necessary to insert the finger nail downwardly (Fig. 4) below the upwardly extending portion **32** and to snap the clasp **29** upwardly (Fig. 6) whereupon the attaching pin **14** may be removed from the substantially cylindrical portion **16**.

In order to increase the attractiveness of the device, the undersurface of the casing 15 may be provided with an ornamental design similar to that carried by the rectangular elements 25.

While various changes may be made in the detail construction, it shall be understood that such changes shall be within the spirit and scope of the present invention as defined by the appended claims.

What is claimed is:

1. An article of the class described comprising a rectangular body portion, an end plate of an expansible wrist-watch band, means for connecting one side of said body portion to the said end plate of an expansible wrist watch band, a hollow member at the other side of said body portion, said hollow member at one side being open and adapted to receive therethrough the attachment pin of a wrist watch casing, a clasp pivotally mounted between said plate and body member and releasable means engageable with said plate for retaining said clasp in closed position upon said body member, said clasp when in the closed position being adapted to close the open side of said hollow member whereby to retain the attachment pin therewithin.

2. An article of the class described comprising a hollow rectangular body member open at the top, a second hollow member at one side of said body member, said second hollow member being open on one side adjacent said body member and adapted to receive therewithin the attachment pin of a wrist watch casing, a rectangular cover plate for said rectangular body member, a lug for connecting the side of said cover plate remote from said second hollow member to the end plate of an expansible wrist watch band, a clasp, means pivotally mounting the side of said clasp remote from said second hollow member on said cover plate, and means on the other side of said clasp for resiliently engaging said cover plate whereby to retain said clasp in a closed position, said other side of said clasp being adapted to close said open side of said second hollow member when said clasp is closed whereby to retain the attaching pin therewithin.

3. An article of the class described comprising a rectangular hollow body member open at the top, a second hollow member at one side of said body member, said second hollow member being open on one side adjacent said body member and adapted to receive therewithin the attachment pin of a wrist watch casing, a rectangular cover plate for said body member, a lug for connecting the side of said cover plate remote from said second hollow member to the end plate of an expansible wrist watch band, a clasp, means pivotally mounting the side of said clasp remote from said second hollow member on said cover plate, and means on the other side of said clasp for resiliently engaging said cover plate whereby to retain said clasp in a closed position, said other side of said clasp being adapted to close said open side of said second hollow member when said clasp is closed whereby to retain the attaching pin therewithin, said means for pivotally mounting the clasp on said cover plate comprising said cover plate having an elongated slot, the side of said clasp remote from said second hollow member being integrally formed with an elongated strip at substantially right angles thereto adapted to pass downwardly through said slot, the ends of said strip being bent at right angles to the body portion thereof whereby to engage the undersurface of said cover plate and to pivotally retain said strip within said slot.

4. An article of the class described comprising a rectangular hollow body member open at the top, a second hollow member at one side of said body member, said second hollow member being open on one side adjacent said body member and adapted to receive therewithin the attachment pin of a wrist watch casing, a rectangular cover plate for said body member, a lug on said plate for connecting the side of said cover plate remote from said second hollow member to the end plate of an expansible wrist watch band, a clasp, means pivotally mounting the side of said clasp remote from said second hollow member on said cover plate, and means on the other side of said clasp for resiliently engaging said cover plate whereby to retain said clasp in a closed position, said other side of said clasp being adapted to close said open side of said second hollow member when said clasp is closed whereby to retain the attaching pin therewithin, said means for pivotally mounting the side of said clasp remote from said second hollow member on said cover plate comprising said cover plate having an elongated slot, the side of said clasp remote from said second hollow member being integrally formed with an elongated strip at substantially right angles thereto adapted to pass downwardly through said slot, the ends of said strip being bent at right angles to the body portion thereof whereby to engage the undersurface of said cover plate and to pivotally retain said strip within said slot, said means for retaining said clasp in a closed position comprising depending lugs integrally formed in the side of said clasp adjacent said second hollow member, said lug being adapted to resiliently engage the adjacent edge of said cover plate.

5. An article of the class described comprising a rectangular hollow body member open at the top, a second hollow member at one side of said body member, said second hollow member being open on one side adjacent said body member and adapted to receive therewithin the attachment pin of a wrist watch casing, a rectangular cover plate for said body member, a lug on said plate for connecting the side of said cover plate remote from said second hollow member to the end plate of an expansible wrist watch band, a clasp, means pivotally mounting the side of said clasp remote from said second hollow member on said cover plate, and means on the other side of said clasp for resiliently engaging said cover plate whereby to retain said clasp in a closed position, said other side of said clasp being adapted to close said open side of said second hollow member when said clasp is closed whereby to retain the attaching pin therewithin, said means for pivotally mounting the clasp on said cover plate comprising said cover plate having an elongated slot, the side of said clasp remote from said second hollow member being integrally formed with an elongated strip at substantially right angles thereto adapted to pass downwardly through said slot, the ends of said strip being bent at right angles to the body portion thereof whereby to engage the undersurface of said cover plate and to pivotally retain said strip within said slot, said means for retaining said clasp in a closed position comprising depending lugs integrally formed in the side of said clasp adjacent said second hollow member, said lugs being adapted to resiliently engage the adjacent edge of said cover plate, said clasp along its edge adjacent said second hollow member intermediate said lugs being integrally formed with an upwardly extending portion adapted to receive thereunder a finger nail or the like whereby to facilitate the disengagement of said lugs from said cover plate.

6. An article of the class described comprising a rectangular hollow body member open at the top, a second hollow member at one side of said body member, said second hollow member being open on one side adjacent said body member and adapted to receive therewithin the attachment pin of a wrist watch casing, a rectangular cover plate for said body member, a lug on said plate for connecting the side of said cover plate remote from said second hollow member to the end plate of an expansible wrist watch band, a clasp, means pivotally mounting the side of said clasp remote from said second hollow member on said cover plate, and means on the other side of said clasp for resiliently engaging said cover plate whereby to retain said clasp in a closed position, said other side of said clasp being adapted to close said open side of said second hollow member when said clasp is closed whereby to retain the attaching pin therewithin, said means for

pivotally mounting the clasp on said cover plate comprising said cover plate having an elongated slot, the side of said clasp remote from said second hollow member being integrally formed with an elongated strip at substantially right angles thereto adapted to pass downwardly through said slot, the ends of said strip being bent at right angles to the body portion thereof whereby to engage the undersurface of said cover plate and to pivotally retain said strip within said slot, said means for retaining said clasp in a closed position comprising depending lugs integrally formed in the side of said clasp adjacent said second hollow member, said lugs being adapted to resiliently engage the adjacent edge of said cover plate, said clasp along its edge adjacent said second hollow member intermediate said lugs being integrally formed with an upwardly extending portion adapted to receive thereunder a finger nail or the like whereby to facilitate the disengagement of said lugs from said cover plate, the side of said clasp adjacent said hollow member on the outer sides of said lugs being integrally formed with projections adapted to close the open side of said second hollow member whereby to prevent removal of the attachment pin when said clasp is in a closed position.

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