March 25, 1930. E. G. CARLSON 1,751,792

BRACELET

Filed May 24, 1929

Fig. 1.

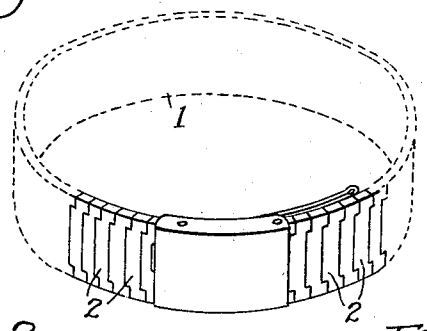


Fig. 2.

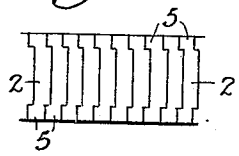


Fig. 3.

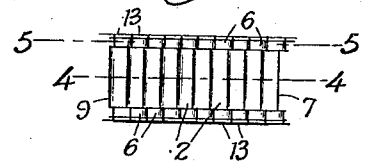


Fig. 4.

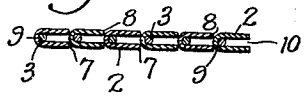


Fig. 5.

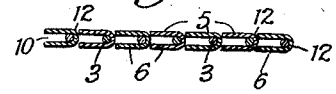


Fig. 6.

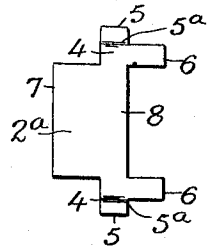


Fig. 7.

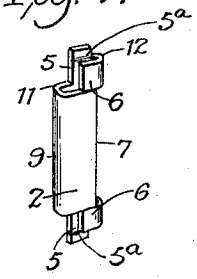
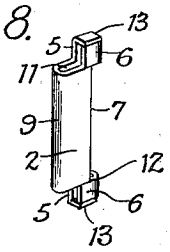


Fig. 8.



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Patented Mar. 25, 1930 1,751,792

UNITED STATES PATENT OFFICE

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BRACELET

Application filed May 24, 1929. Serial No. 365,696.

This invention relates to bracelets and like articles of jewelry of that type in which the body of the article comprises a band composed of metallic box link members.

One object of the invention is to provide a novel form and construction of box link members adapted to be united by pintle pins and each having knuckles for the pins which also form closures for the ends of the joined links and bracing members for sustaining the links against strains in an edgewise direction, said knuckles also serving to hold the parts securely assembled without the necessity of soldering any parts.

Another object of the invention is to provide a bracelet band which is strong and durable in construction, light in weight, thin and flexible to a desired degree, ornamental and attractive in appearance, and susceptable of being manufactured and sold at a comparatively low cost.

The invention consists of the features of construction, combination and arrangement of parts, hereinafter fully described and claimed, reference being had to the accompanying drawings, in which:—

Fig. 1 is a perspective view of a closed bracelet embodying the invention.

Figs. 2 and 3 are outer and inner face views of a portion of the bracelet band on an enlarged scale.

Fig. 4 is a longitudinal section on line 4—4 of Fig. 3.

Fig. 5 is a longitudinal section on line 5—5 of Fig. 3.

Fig. 6 is a plan view of the blank from which a link is made.

Figs. 7 and 8 are perspective views of a link formed from a folded blank.

The bracelet comprises a link band 1 formed of closely related box link members 2, pivotally connected by pintle pins 3 to give flexibility to the band. The ends of the band are connected to a suitable type of buckle clasp 4 adapted to be folded and unfolded to contract the bracelet for application to the wearer's wrist and to expand the same for removal from the wrist. The band shown in the present instance is designed for use as a plain wrist bracelet, but is made, of course, to be modified in obvious ways to render it suitable for use as a watch wrist bracelet.

Each link member 2 is made from the preliminarily flat rectangular or oblong rectangular shaped body plate 2^a shown in Fig. 6, which is provided at the junction of its top and bottom edges and one of its side edges with substantially L-shaped wings or projections 4, each embodying a longitudinal limb 5 and a lateral limb 6 arranged at right angles to each other. In forming a link member from this blank, the body plate 2^a is folded medially upon itself so as to bring its side edges 7 and 8 into longitudinal alinement, and thus provide a box link body which is closed at one side by the bight or fold 9 and open at its opposite side 10 and provided with normally open end portions 11. Subsequent to or simultaneously with the folding of the body blank in the manner described, the arms 6 of the wings 4 are bent backwardly upon themselves toward the closed side of the link body so as to provide with the inner halves of the limbs 5 substantially U-shaped knuckles 12, open at the top and at the side facing the closed side of the link body and adapted to be closed at the top by closure flaps 13 formed by the outer halves of the limbs 5.

The inchoate box links so constructed are then assembled to form the band 1, adjacent links being assembled by bringing the closed side 9 of one link parallel with and in position to close the open side 10 of an adjacent link, and so that said closed side of the first-named link underlies the knuckles 12 of the second-named link. A pintle pin 3 is then fitted in the bight or fold 9 of the second-named link with its ends projecting beyond the top and bottom of the link body and into the knuckles 12 of the first-named link, whereby the two knuckles are hingedly connected, and finally the flaps 13 of the limbs 5 of the first-named link are turned down or bent at right angles to close the outer ends of the knuckles 12, whereby the pins are held in position against endwise displacement. When a series of box links so constructed are hingedly connected in the manner set forth, the open side of one link will be closed by the

closed side of a second link at one side thereof and its closed side will close the open side of the next adjacent link at the opposite sides thereof, and the knuckles of each link will overhang the link whose closed side closes its open side for a distance equal substantially to one-half the width of the link, this arrangement prevailing throughout the band or series of connected links, whereby the knuckles act as overlapping braces to prevent sliding displacement of the links on their pintle pins and also to brace the links against strains edgewise of the band or in planes parallel with the pintle pins, by means of which an exceedingly strong and durable type of flexible bracelet band is produced.

It will also be seen that by the above-described mode of constructing and connecting the bands that the open sides of the knuckles will be closed by adjacent knuckles, and that the outer ends of the knuckles will be closed by the flaps 13, so that the pintle pins will be concealed and protected from injury or from protruding and causing liability of injury to the person or dress of the wearer, while the box links will be closed in an effective manner against the entrance of dust and dirt. Furthermore, it will be evident that, while the parts may be made of thin metal, no raw or sharp edges will be left exposed to catch into extraneous objects or to cause injury to the person or clothes of the wearer.

In practice, it will be understood that the links may be made of gold, silver, various metal alloys or any suitable or desired precious, semi-precious metals or metal alloys or plated metals, and that, as a result of the construction of the links with knuckles which act as closing and reinforcing members, a box link bracelet may be made which will have a durable and solid appearance, and yet may be made of thin metal and of narrow width without sacrifice of strength and durability. The mechanical structure is such as to give an ornamental and attractive appearance to the bracelet which, of course, may be enhanced by surface ornamentation produced in any of the ordinary ways.

Preferably the blank 2^a is provided along the fold lines of the limbs 5 with grooves or scores 5^a which weaken the metal sufficiently to allow the said limbs 5 to be bent easily to the closed position shown in Figs. 1, 2, 3 and 8. By this means the turned down or folded limbs 5 may be brought to lie flatly and squarely across the edges of the band so as to provide smooth-surfaced edges.

Having thus fully described my invention, I claim:—

1. A bracelet comprising a link band formed of doubled link plates each having a closed side, an open side and normally open ends, the closed side of each link facing and closing the open side of the adjacent link, and pintle pins fitted in the closed sides of the links and projecting beyond the ends of the link plates, the links having portions folded to form knuckles receiving the ends of the pins and in addition closing the open ends of the links.

2. A bracelet comprising a link band formed of doubled link plates each having a closed side, an open side and normally open ends, the closed side of each link facing and closing the open side of the adjacent link, and pintle pins fitted in the closed sides of the links and projecting beyond the ends of the link plates, the doubled links having at their open sides wings folded to form knuckles receiving the ends of the pins and additional closure flaps for the knuckles, the closed knuckles of each link projecting beyond the open side of the link and overhanging the closed side of an adjacent link.

3. A bracelet comprising a link band formed of doubled link plates each having a closed side, an open side and normally open ends, the closed side of each link facing and closing the open side of the adjacent link, and pintle pins fitted in the closed sides of the links and projecting beyond the ends of the link plates, the doubled links having at their open sides normally L-shaped wings folded to provide U-shaped knuckles receiving the ends of the pintles and additional closure flaps for the knuckles, the closed knuckles of each link projecting beyond the open side of the link and overhanging the closed side of an adjacent link.

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