

## SPECIFICATION

## Watch band

5 The present invention relates to a watch band, and more particularly to an adjustable watch band comprising removable links for adapting the band to the thickness of wearer's hand.

10 The adjustable watch band comprises a plurality of link units, each link unit of which comprises a link, at least two rings, and a connecting pin for connecting the link and rings. In the prior art, it is difficult to assemble a plurality of links and rings.

15 According to the present invention there is provided a watch band including a plurality of adjustable link units each of which comprising a large link having a pair of end rings connected with each other by opposite connecting bars at a space therebetween; a small link comprising a ring engaged with  
20 said connecting bar, said ring having a slit for permitting the passing of said connecting bars therethrough; and a connecting pin inserted into rings of said large and small links for connecting both links, said connecting pin being made by bending a steel  
25 plate into a V-shape so as to be compressed in the direction of the thickness of the watch band and inserted into said rings.

30 The invention will now be described by way of example with reference to the accompanying drawings, in which:

Figure 1 is a plan view showing a part of a watch band according to the present invention;

Figure 2 is a sectional view of the watch band which is in inverted relation to the band of Figure 1;

35 Figure 3 is a perspective view of a large link;

Figure 4 is a perspective view of a small link;

Fig. 5 is a perspective view of a connecting pin;

40 Fig. 6 is a perspective view showing a part of the watch band for illustrating a connecting operation; and

Figs. 7 and 8 are perspective views showing another embodiment.

Referring to the drawings and more particularly to Fig. 3, a large link 1 is made by bending a pressed  
45 steel plate. The large link 1 comprises end rings 1a and 1c, a central ring 1b having a slit 1f at the underside thereof. The rings 1a, 1b and 1c are connected with each other by opposite connecting bars 1d, 1e to form spaces 1h and 1i.

50 Referring to Fig. 4, a small link 2 comprises a pair of rings 2a and 2b each of which has a slit 2c. The rings 2a and 2b are connected with each other by a connecting bar 2d. The large and small links are so designed as to be engaged with each other by the  
55 rings and the space therebetween.

Fig. 5 shows a connecting pin 3 which is made by bending a spring steel plate into V-shape. The connecting pin 3 has a protrusion 3a formed on one end portion thereof and an up turned tab 3b formed at the other end. The connecting pin has a L-shape in  
60 plan view. The short side along the tab 3b can be engaged with the ring 1c. To facilitate the insertion of the connecting pin into the links 1 and 2, a beveled portion 3c is formed at the tip thereof.

65 Method of assembling of the band will be

described hereinafter. The small link 2 positioned as illustrated in Fig. 4 is inverted and engaged with the large link 1 with passing the connecting portion 2d through the slit 1f and passing the connecting bars  
70 1d and 1e through slits 2c. Then, the small link 2 is inverted again keeping the engagement with the large link 1, so that a unit of the link is assembled. Numeral 4 in Fig. 6 shows the assembled one unit of the link. The rings 2a and 2b are inserted in spaces  
75 1h and 1i of the large link 1. The rings 2a and 2b are engaged with the large link 1 of the adjacent unit as shown in Fig. 6. Thereafter, the small link and the large link 1 of adjacent unit are so disposed that spaces 2e and 2f in rings 2a and 2b and spaces 1l, 1k  
80 and 1j in rings 1a, 1b and 1c are aligned. Then, the connecting pin 3 is inserted into the spaces to connect the adjacent units. Figs. 1 and 2 show connected unit of links. The protrusion 3a of the connecting pin 3 engages with a notch 1g formed in the ring 1c due  
85 to the elastic force of the pin so that the connecting pin is prevented from removing. The watch band according to the present invention includes the above described adjustable link units.

90 In order to disconnect the links for adjusting the length, the connecting pin 3 is removed from the links by pulling the tab 3b. Tab 3b serves also as a closure for the end of the ring 1c.

95 In accordance with the present invention, since a pair of rings 2a and 2b are integrated by the connecting bar 2d, assembling of the links and connecting of the adjacent links may be easily carried out. Further, since it is not necessary to perform any bending work after assembling of links, working efficiency may be increased. The connecting bar 2d of the rings  
100 2a and 2b is not exposed as shown in Fig. 1, so that the watch band may be made up into a good appearance.

Although the illustrated large link 1 comprises three rings 1a, 1b and 1c and the small link 2 comprises a pair of rings 2a and 2b, a large link comprising a pair of rings and a small ring comprising only one ring may be employed for the watch band.

105 Figs. 7 and 8 show such an example. A large link 5 comprises a pair of end rings 5a and 5b connected with each other by opposite connecting bars 5c and 5d. A small link 6 comprises only one ring having a slit 6a for passing the connecting bars 5c and 5d therethrough. Other construction and feature are the same as the previous embodiment.

## 115 CLAIMS

1. A watch band including a plurality of adjustable link units each of which comprising a large link having a pair of end rings connected with each other by opposite connecting bars at a space therebetween; a small link comprising a ring engaged with  
120 said connecting bar, said ring having a slit for permitting the passing of said connecting bars therethrough; and a connecting pin inserted into rings of said large and small links for connecting both links, said connecting pin being made by bending a steel  
125 plate into a V-shape so as to be compressed in the direction of the thickness of the watch band and inserted into said rings.

2. A watch band according to claim 1 wherein  
130 said large link comprises opposite end rings and a



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central ring, and said small link comprises a pair of rings connected with each other by a connecting bar, said central ring has a slit for permitting the passing of said connecting bar of said small link there-

5 through.

3. A watch band according to claim 1 or claim 2 wherein said connecting pin has a protrusion adapted to be engaged with a notch provided in the ring of said large link.

10 4. A watch band according to claim 1 or claim 2 wherein said connecting pin has an end tab for the aid of removing from said rings.

5. A watch band according to claim 1 or claim 2 wherein said connecting pin has a bevelled portion

15 at the tip thereof.

6. A watch band substantially as hereinbefore described with reference to, and as illustrated in, the accompanying drawings.

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