

C. P. KUEHNER.
BRACELET.
APPLICATION FILED SEPT. 5, 1912.

1,053,046.

Patented Feb. 11, 1913.

Fig. 1.

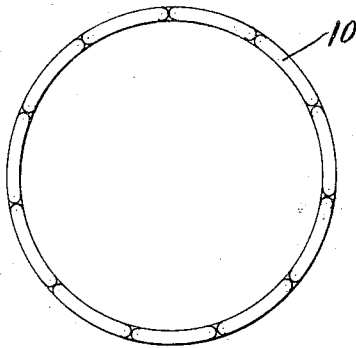


Fig. 2.

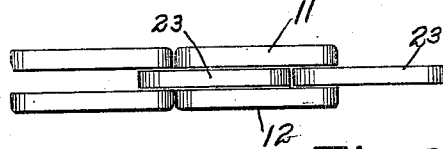


Fig. 3.

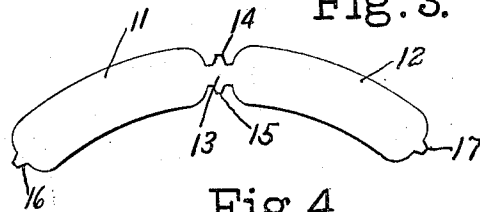


Fig. 6.

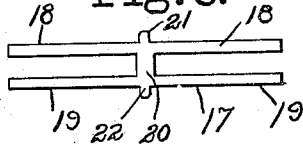


Fig. 4.

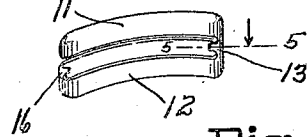


Fig. 5.

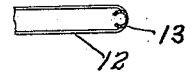


Fig. 7.

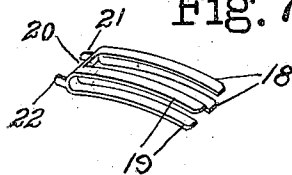


Fig. 8.

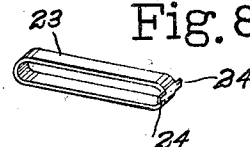


Fig. 9.

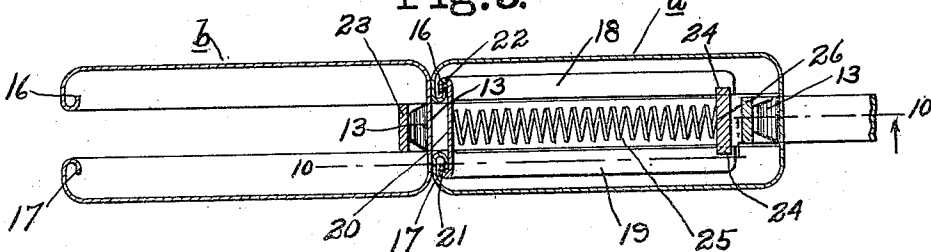
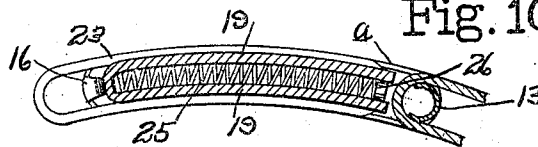


Fig. 10.



Inventor

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UNITED STATES PATENT OFFICE.

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BRACELET.

1,053,046.

Specification of Letters Patent.

Patented Feb. 11, 1913.

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To all whom it may concern:

Be it known that I, CHARLES P. KUEHNER, a citizen of the United States, and resident of the city of Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Bracelets, of which the following is a specification.

This invention relates to flexible bracelets of the class adapted to be extended to pass over the hand onto the wrist of the wearer, and the object of the invention is to provide such a bracelet with a plurality of compound links each link comprising two or more members normally retained in contracted position by spring pressure and adapted to receive relative movement, for the purpose of expanding or enlarging the bracelet.

A feature of my improved invention is that all of the parts are stamped and bent up out of sheet metal and then assembled and secured in position entirely without the use of solder.

With these and other objects in view, the invention consists of certain novel features of construction, as will be more fully described and particularly pointed out in the appended claims.

Of the accompanying drawings: Figure 1 is a view of an expandible bracelet of my improved construction. Fig. 2 is an enlarged view illustrating the arrangement of the parts and the manner of securing the links together. Fig. 3 is a view illustrating the hollow side members of the link as struck from sheet material. Fig. 4 illustrates these side members as having been bent up into a trough like form and then bent over to lie parallel with each other being secured together at one end by a bridge portion. Fig. 5 is a section on line 5—5 of Fig. 4 showing a section of the bridge portion. Fig. 6 is a detail of the abutment guide fork as struck from sheet metal. Fig. 7 shows the guide fork bent up into the required form to be inserted into the side members. Fig. 8 is a perspective view of one of the band members. Fig. 9 is a greatly enlarged sectional plan view showing two links connected together. Fig. 10 is an edge view partly in section on lines 10—10 see Fig. 9 showing the portion of two links connected together.

Referring to the drawings, 10 designates an expandible bracelet which is made up of a plurality of compound links, each link comprising two side members 11 and 12, which are preferably struck up from sheet metal on the arc of a circle, as illustrated in Fig. 3, said members being connected together at one end by a bridge 13 which has small lateral bearing projections 14 and 15, and from the opposite end of the blank extend fingers 16 and 17. The members of this blank are next struck up into a trough shape and are then bent over at the connecting bridge 13 nearly upon themselves, as illustrated in Fig. 4. A double forked member is preferably formed from sheet stock originally in the shape of a letter H the arms 18 and 19 being bent over into the form illustrated in Fig. 7, each pair of branches being parallel and in spaced apart relation and connected together at one end by means of the cross bar 20 of the H. This cross bar as illustrated in Figs. 6 and 7 is provided with laterally extending fingers 21 and 22 to cooperate with the fingers 16 and 17 in the manner hereinafter described. The third member of this compound link is made in the form of an elongated band 23 see Fig. 8 having a hollow central portion and being divided at one end with laterally bearing extensions 24.

The assembling and operation of the parts are described as follows: The band member is slipped over the abutment cross bar 20 of the fork member 17 which bar forms a support for one end of the band, the laterally projecting fingers 24 at the opposite end of the band extend between the branches of the opposite forks to provide a sliding second bearing at this end of the band. A light coil spring 25 is now inserted into the band member one end resting against the cross bar 20 which now forms an abutment for said spring, while the other end rests against the opposite end of the band at the point 26. In order to position this fork, band member and spring, which now between them constitute a single unit, they are placed between the pair of hollow side members which are then brought together over the fork member completely inclosing the latter and which at the same time retain the band member slidably between them as shown in Fig. 9. The fingers 21 and 22 of

this abutment cross bar and the fingers 16 and 17 of the side members are bent in hook form in opposite directions so that when the ends of these side members are brought
 5 into operating position the ends of the hooks of one set snap by and engage and clench with those of the other set locking the whole securely in position and at the same time
 10 securely locking the free ends of the said members against opening. In order to connect this link now with the next, the band member is extended compressing the spring
 15 25 against the abutment cross bar 20 and the sides of the band member are sprung slightly apart and one of the pair of the hollow side members is passed therethrough and carried
 20 around in position to bring the members parallel and cause the bridge portion 13 to engage the end of the band whereby under the tension of the spring 25 the end of the
 25 second link *b* is connected to the link *a*. The joining of these links together in the manner above described is repeated until a sufficient number have been connected to form the desired size of bracelet.

It will be noted that no solder is required in the construction of my improved bracelet. The extensions 24 on the band member may be formed by swaging the stock outward if desired.

I claim:

1. A bracelet comprising a plurality of compound extendible links each comprising
 35 a pair of hollow side members connected together at one end by a bridge, an independent guide member having two parts one mounted in each of said side members, an abutment connecting the two parts of said
 40 guide member, a central band shaped link connecting member adapted to slide between said side members and receive its bearing at one end on said bridge and at its opposite end in said guide member, and a spring
 between said abutment and said band to

hold the latter normally in contracted position. 45

2. A bracelet comprising a plurality of compound extendible links each comprising
 50 a pair of hollow side members connected together at one end by an integral bridge, an independent guide member having two parts one mounted in each of said side members, an abutment connecting the two parts
 55 of said guide member, means for connecting the free ends of said side members to said abutment member, a central band shaped link connecting member adapted to slide between said side members and receive its
 60 bearing at one end on said bridge and at its opposite end in said guide member, and a spring between said abutment and said band to hold the latter normally in contracted position.

3. A bracelet comprising a plurality of compound extendible links each comprising
 65 a pair of hollow side members connected together at one end by an integral bridge, an independent guide member having two parts one mounted in each of said side members, an abutment connecting the two parts
 70 of said guide member, bendable fingers for connecting the free ends of said members to said abutment member, a central band shaped link connecting member adapted to slide between said side members and receive
 75 its bearing at one end on said bridge, said band being provided with laterally extending guide fingers at its opposite end projecting into said guide member, and a spring between said abutment and said band to
 80 hold the latter normally in contracted position.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES P. KUEHNER.

Witnesses:

HOWARD E. BARLOW,
 R. L. CLAYTON.