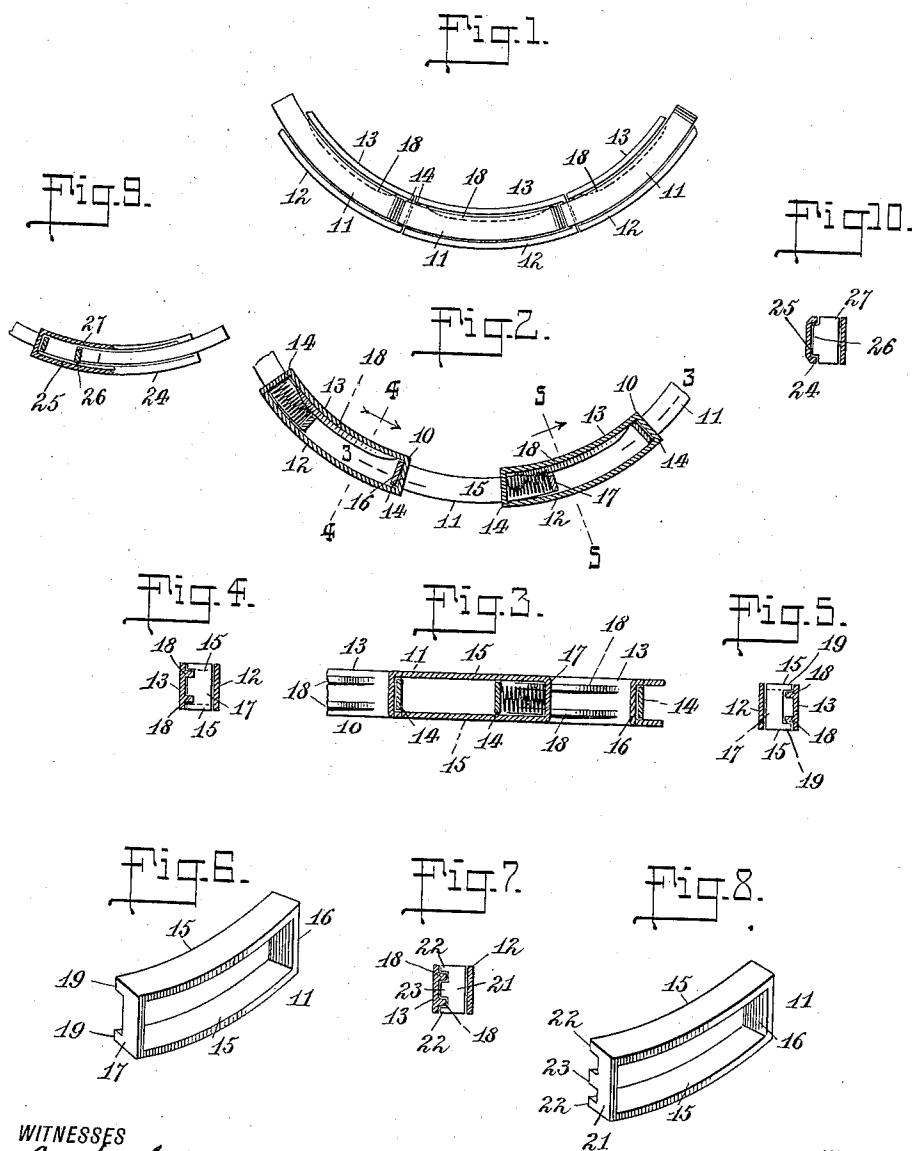


M. L. ROBBINS.
BRACELET.
APPLICATION FILED APR. 10, 1912.

1,059,564.

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WITNESSES

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BRACELET.

1,059,564.

Specification of Letters Patent.

Patented Apr. 22, 1913.

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To all whom it may concern:

Be it known that I, MEYER L. ROBBINS, a citizen of the United States, and a resident of New York, borough of Manhattan, in the county of New York and State of New York, have made and invented certain new and useful Improvements in Bracelets, of which the following is a specification.

My invention relates to an improvement in bracelets, and more particularly to that style or type thereof usually known and referred to as "expansible bracelets". In my experience in the manufacture and use of this type of bracelet I have found that it is very desirable that some means be employed whereby the several links may be guided in their movements one upon or within the other, and also some means whereby during the movement of the links they will be rigidly held in alinement, at least until the end of the travel of each link upon the other, at which time it is desirable that the links be allowed to swing upon one another in order to render the bracelet as a whole flexible, and thereby avoid injury to the same, which is always liable to occur if the article be made rigid, especially when it is forced over the hand in putting the bracelet on or taking it off of the wrist of the wearer. In other words, it is desirable that during the expansion of the bracelet it shall be rigid, but when expanded, shall be flexible. In order to lend to the finished article a neat and pleasing appearance it is also desirable that the outer sides or surfaces of each of the links be plain or smooth and without projections or protuberances of any kind, as such necessarily detract from the pleasing design thereof.

It is the object of my invention to provide a bracelet in which these advantageous features are secured, and at the same time to so construct the article that it may be easily, readily and cheaply manufactured and assembled, and with these and other ends in view consists in certain novel features of construction and combinations of parts as will be hereinafter fully described and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view of a part of a bracelet in side elevation constructed in accordance with my invention; Fig. 2 is a sectional view thereof in its open or expanded adjustment; Fig. 3 is a sectional view of a part of the bracelet taken on the line 3—3 of Fig. 2; Fig. 4 is a

sectional view taken on the line 4—4 of Fig. 2 and looking in the direction as indicated by the arrow; Fig. 5 is a sectional view taken on the line 5—5 of Fig. 2 and looking in the direction as indicated by the arrow; Fig. 6 is a perspective view of one of the inner links; Fig. 7 is an end view of a modified form of link assembled with the outer link, the latter being shown in section; Fig. 8 is a perspective view of a modified form of the inner link illustrated in Fig. 7; Fig. 9 is a longitudinal view partly in cross-section, and Fig. 10 a cross-sectional view of a modified form of the links.

Referring to the drawings, it will be seen that the article is made up of a number of outer links 10, and inner links 11, Fig. 2, each outer link being formed of or comprising two longitudinal plates, one an outer plate 12, and the other an inner plate 13 connected by the transverse end plates 14 forming a box-like structure with open sides; also a number of inner links 11, each comprising two sides 15—15, Fig. 6, connected at one end by means of the plate 16, and at the opposite end by the plate 17, the height or width of said plates 15 being such as to be nicely contained between the inner and outer plates 12—13 of the outer link 10, so that the extreme edges of said outer and inner plates 12—13 of the outer link will lie flush with the sides 15 of the inner link, as illustrated in Figs. 4 and 5.

In order to guide the links one upon or within the other during their movements, I form on one of the plates 12—13, preferably the latter, a rib or ribs 18, preferably two, and spaced apart, as clearly illustrated in Fig. 3, these ribs being made integral with the plate 13, or soldered or otherwise secured thereto, and extend to within a short distance of the ends of said plate. These ribs are straddled by the feet 19 formed on the end plate 17 of the inner link 11, the inner edges of said feet contacting with the outer sides or surfaces of the ribs and thereby holding the links in alinement and guiding the same during the movement thereof one upon or within the other.

By arranging the sides 15 of the inner link to lie within the outer and inner plates 12—13 of the outer link, the said links are allowed a longitudinal movement only one upon the other, and by reason of the feet 19 straddling or encompassing the ribs 18, all lateral play of the links one upon the other

is avoided. As the ribs gradually merge into the plate 13 at some distance away from the extreme ends of said plate, the links, when fully expanded, are allowed a certain
 5 play in all directions one upon or within the other, thereby rendering the article as a whole flexible, whereby it is more readily and easily passed over the hand of the wearer in placing it upon or removing it
 10 from the wrist.

In order to return the several links to their normal or closed positions after being expanded, I insert between one end of each inner link and the end of its corresponding
 15 outer link, a coil spring 20, one end of said spring bearing against the end plate 14 of the outer link, and the other end of the spring bearing against the end plate 17 of the inner link, the tendency of the spring
 20 being to hold the links in their closed or normal positions as illustrated in Fig. 1.

If desired, instead of forming the end plate 17 of the inner link as illustrated in Fig. 6, it may be constructed as illustrated at
 25 21 in Fig. 8, that is, in addition to the two feet 22, it may be provided with the central projection 23 adapted to extend in between the ribs 18 to assist the feet 22 and ribs 18 in holding the links in alinement during
 30 their movements, the feet 22 embracing the outer sides of the ribs, and the projection 23 fitting in between the same, as illustrated in section in Fig. 4.

While I have illustrated and described
 35 two ribs 18, it will of course be understood that but one may be used, if desired, or, on the other hand, three may be utilized, it being essential only that one of the plates 12—13 be provided with such means as to be
 40 embraced by one of the end plates of the inner link in such way that the links are guided in their longitudinal movement and held in alinement during the expansion or contraction of the bracelet.

It will be obvious to those skilled in the art that other changes might be made in the detailed construction of the links whereby to effect the same result, and without departing from the spirit of the invention, as, for in-
 50 stance, instead of employing a guide in the form of a rib or ribs, the same result may be obtained by forming it in the shape of a groove formed in the outer or inner plate, or both, of the outer link, and a foot or feet
 55 formed on the end plate of the inner link projecting into the groove whereby to retain

the links in alinement during their movements. In Figs. 9 and 10 I have shown the outer plate 24 provided with a groove 25, and into which extends the lug or foot 26
 60 formed on the end plate 27 of the inner link 28, the remaining parts of the links being constructed substantially as those before described. Again, it will be understood, with-
 65 out further illustration and description, that, if desired, both a rib 18 and a groove 25 may be utilized, one, for instance, formed on the inner plate, and the other the outer plate of the outer link, and hence I do not confine my invention to the exact details 70 shown and described; but

What I claim is:—

1. An expansion bracelet comprising a number of assembled inner and outer links forming a box-like structure, each outer link
 75 comprising longitudinal inner and outer plates connected by transverse end plates, and a guide formed on the interior of one of said longitudinal plates of said outer link, each of said inner links comprising side and
 80 end plates, the guide formed on said outer link being engaged by one of the end plates of said inner link, and a spring assembled with said inner and outer links for returning the same to their normal closed posi-
 85 tions.

2. An expansion bracelet comprising a number of assembled inner and outer links, each of said outer links comprising an inner and outer plate connected at their ends by
 90 end plates, the inner plate of the outer link being provided with a rib extending lengthwise of said outer link and shorter in length than the plate upon which it is formed, each of said inner links comprising side and end
 95 plates, one end plate of said inner link being provided with feet engaging said rib formed on the outer link, and a spring located within said outer link and having one end engaging one end plate of said outer
 100 link, and the other end engaging one end plate of said inner link whereby to return the links to their normal closed positions.

Signed at New York, borough of Manhattan, in the county of New York, and State
 105 of New York, this 9th day of April, A. D. 1912.

MEYER L. ROBBINS.

Witnesses:

GEORGE GASCHKE,
 ISRAEL ROSKIN.