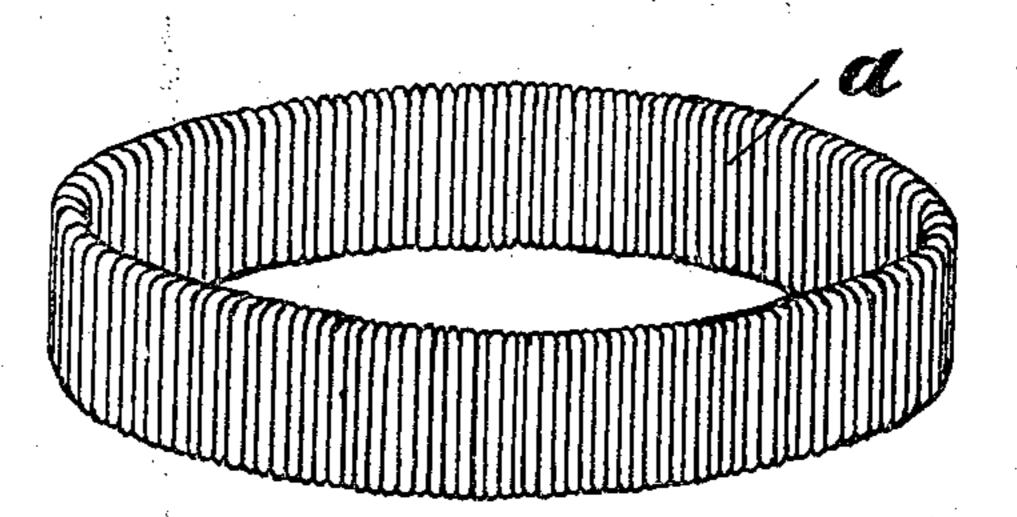
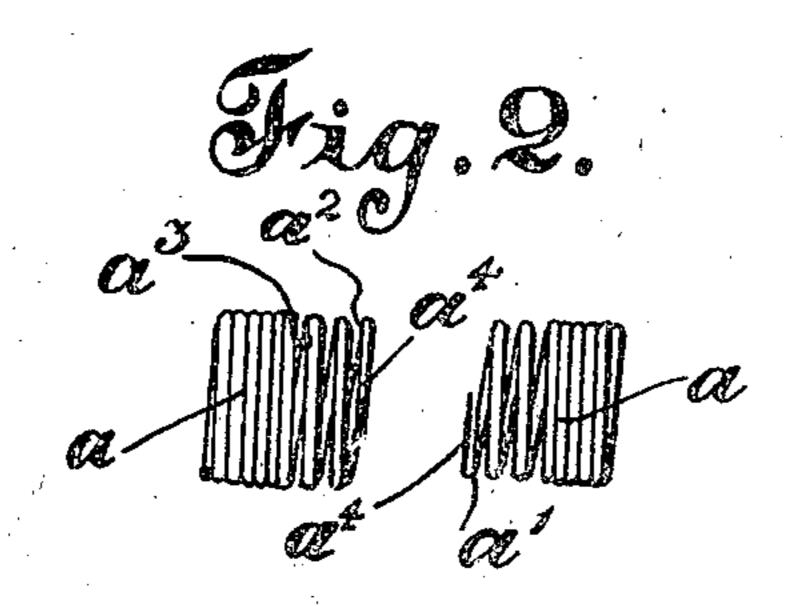
C. TERRY.

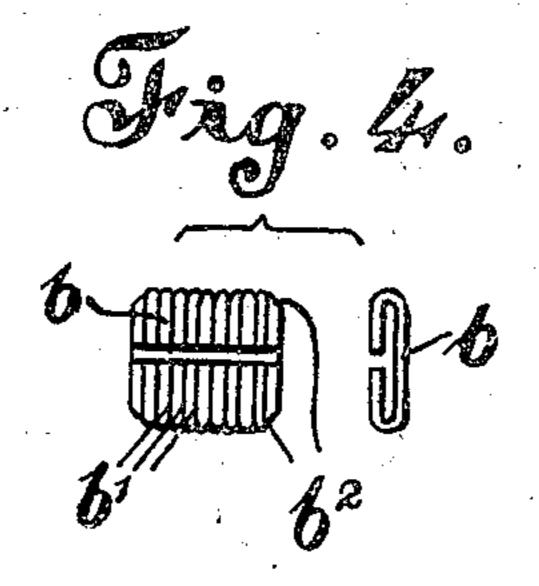
EXPANSIBLE WIRE BRACELET, ARMLET, GARTER, AND THE LIKE.
FILED APR. 16, 1920.

Fig. 1.











INVENTOR CHARLES TERRY by Minger Attorney

UNITED STATES PATENT OFFICE.

CHARLES TERRY, OF REDDITCH, ENGLAND.

EXPANSIBLE WIRE BRACELET, ARMLET, GARTER, AND THE LIKE.

Application filed April 16, 1920. Serial No. 374,470.

To all whom it may concern:

Be it known that I, CHARLES TERRY, a subject of the Kingdom of Great Britain, 5 of Worcester, England, manufacturer, have invented certain new and useful Improvements in or Relating to Expansible Wire Bracelets, Armlets, Garters, and the like (for which I have filed application in England 10 August 28. 1913. Patent No. 19,466), of which the following is a specification.

This invention comprises certain improvements in or relating to expanding wire bracelets, armlets, garters and the like, and it has 15 for its purpose to furnish means whereby such articles may be manufactured in a more expeditious and efficient manner than heretofore, and whereby considerable expense is saved during such manufacture.

In the manufacture of bracelets and like articles made from coiled or spiral spring wire, it has hitherto been the practice in forming the desired circlet from a band or 25 tremities of the band together and retain suitable length according to the nature or such extremities in the exact or proper posipresent invention, however, comprises means whereby the two extremities of the spiral 30 band may be connected together and retained in the exact required position in a adjacent to each other. very simple and efficient manner without and the joint when completed is so neat in 35 appearance as to render same invisible or substantially so.

According to the present invention the extremities of a portion of spiral spring of suitable length for the purpose required are 40 connected together by interlacing or locking a desired or suitable number of the wire coils or convolutions at one extremity with a similar or corresponding number of wire 50 displacement of the said interlaced or locked coils of the connection or joint, and for retaining the said coils in alignment with each other and with the remainder of the article without necessitating any soldering or braz-55 ing.

The invention is particularly applicable

to articles in which the coils of the spring are of flat or elongated formation.

In order that this invention may be clearly of Nevelty Works, Redditch, in the county understood and more readily carried into 60 practice, reference may be had to the appended explanatory sheet of drawings upon which:—

Figure 1 illustrates a complete bracelet, armlet or the like article formed in accord- 65 ance with the present invention.

Figure 2 illustrates two extremities of a coiled wire band or length before interlacing same.

Figure 3 is a perspective view illustrating 70 two extremities of a coiled wire band or length in the process of interlacing.

Figure 4 shows a suitable form of clip or security member for inserting within the interlaced coils for completing the joint.

Figure 5 is a transverse section through the joint according to this invention.

In a convenient embodiment of the present invention a portion or band of coiled or portion of such spring to connect the ex-spiral spring a is provided of any desired or 80 size of the article to be made, the coils or tion by soldering, brazing or the like. The convolutions of said spiral band a being advantageously of elongated or flat formation adapted in their normal or contracted con- 85 dition to lie in alignment side by side closely

In order to form a circlet or ring member necessitating the use of solder or the like, from a spiral band the coils at one extremity of same are interlaced with the coils at the 90 other extremity by screwing same into each other, which action may be accomplished in

the following manner. The one extremity of the band is held in the one or left hand and the other extremity 95 is held in the other or right hand. The extreme coil a at the one or right hand extremity is then interlaced with or hooked into engagement with the extreme coil a^2 at coils or convolutions at the other extremity the opposite or left hand extremity. The 100 by means of a screwing, turning or twisting one extremity of the band α being firmly action of the one extremity in relation to the held, the other extremity is given a twisting other, and a suitable member is assembled or or screwing turn in relation thereto, the inserted within the interior of the inter- movement being similar to that effected locked coils for effectively preventing the when tightening or inserting an ordinary 105 screw. Upon completion of the first turn the extreme coil at the one extremity of the spiral band will be disposed or interlaced in a position between the two extreme coils a^2 , a^3 at the other extremity and vice 110 versa. This screwing movement may be con-

tinued until say three or any other suitable plished and the flat member inserted in 5 interlacing operation is such that the coils by pressing a suitable sharp instrument or 70 of the one extremity alternately assume a tool upon both the upper and lower edges laced and a position in which they lie snugly panded in opposite directions and firmly bed 10 or tightly between such coils in the same against or grip the coils of wire, which coils 75 plane.

15 turned in opposite directions.

eration. In this manner after the operation 25 of interlacing the extremities a circlet is formed having all the coils in alignment and devoid of any twists.

The two extreme ends of the spiral wire aare advantageously of hook formation, the 30 free arm or part a4 of the hook being extended to a position substantially half way along the width of the coil and this free extremity a4 of the hook portion is advantageously tapered off to a fine edge or flattened 35 by grinding or otherwise so as to facilitate its engagement between the coils during the operation of interlacing in forming the con-

In order to prevent the displacement of 40 the coils a after having been interlocked, and to retain said coils in one plane, a suitable flat metallic member b is inserted within the interior of the wire coils advantageously at a position near the one extremity before the 45 interlacing is effected, which flat member b after the joint has been accomplished is moved along the interior of the coils a into a position within the interlaced portion of same.

This flat securing member b is advantageously in the form of an elongated thin sheet of metal bent so as to form two flat rectangular face portions, disposed one over the other in parallel relationship, a small space 55 remaining between same. The size of the rectangular member b is conveniently such as to permit of its being readily inserted within the wire coils a of the article being made while having a substantially close fit

60 within same.

nection.

The exterior faces of the flat metallic securing member b may be advantageously serrated vertically or formed with parallel vertical grooves, cuts or ribs b1 and after the 65 interlocking of the coils has been accom-

number of coils at both extremities have position therein, the said member may be been interlaced and brought into alignment caused to be expanded to a certain extent in or in the same plane. The action during the any suitable manner, such for instance as position in a plane at right angles to the of the same between the coils a thereby causplane of the coils with which they are inter- ing the sides of the flat member b to be exa will be thereby pressed into engagement If desired, in effecting the interlacing both with the serrations or cuts be in the flat memextremities may be twisted or turned in re- ber b. The faces of the flat member may be lation to each other, providing that they are otherwise roughened so as to form gripping surfaces.

Prior to interlacing the coils or convolu- In bending the metal to form the two tions at the extremity of the wire a the band flat sides or faces of the securing member b or length forming the article is twisted in the contiguous edges of same after being an opposite direction to the twisting move- bent over may be disposed transversely ment necessitated in the interlacing opera- across the middle of one of the sides or faces, 85 tion, the number of twists or turns given to and when formed the four corners b2 of the said band corresponding with the number member may be chamfered off so as to faciliof twists necessitated in the interlacing op- tate the movement of the said member b along the interior of the coils a.

It is advantageous to leave open to a cer- 90 tain degree those coils or convolutions of wire which are to be interlaced as this facilitates

the interlocking operation.

A strip or band of fabric c of any suitable nature may be inserted within the 95 coiled article to prevent the expansion or stretching of same beyond a certain degree. The extremities of this strip of fabric c may be connected together in any suitable or usual manner such as by stitching, but prior 100 to such connection the strip is passed through the flat metallic expansible member b adapted to be inserted within the coils a, the flexibility of the strip of fabric c permitting the free turning movement of the 105 coils during the interlacing of same.

The invention is applicable to bracelets, rings, garters, armlets, anklets or any other desired expansible wire article and it enables the spiral spring or the like to be 110 gilded, plated, etc., in the length, before joining to form the article required thereby saving much expense and permitting of a greatly improved finish to the article being made.

What I claim as my invention and desire to secure by Letters Patent is:

1. An expansible bracelet, comprising a continuous coiled spring wire of equal diameter throughout its length, the extremities 120: being interlaced by threading the end coils between the convolutions of the coacting end coils.

2. An expansible bracelet, comprising a continous coiled spring wire of equal diam- 125 eter throughout its length, the extremities being interlaced by threading the end coils between the convolutions of the coacting end coils, and a clip surrounded by the interlaced end coils.

115

130

4. An expansible bracelet, comprising a continuous coiled spring wire of equal diam-15 coils, and an expansible clip surrounded by of between the convolutions of the end coils. the interlaced end coils and adapted to be In witness whereof I have hereunto set expanded to enter into frictional contact my hand. with said coils, said clip having serrated

3. An expansible bracelet, comprising a faces to increase the engagement with said

5. An expansible bracelet, comprising a continuous coiled spring wire of equal diameter throughout its length, the extremities being interlaced by threading the end coils between the convolutions of the coacting end 25 coils, and an expansible clip surrounded by the interlaced end coils and adapted to be expanded to enter into frictional contact with said coils, said clip having serrated eter throughout its length, the extremities faces to increase the engagement with said 30 being interlaced by threading the end coils coils, said end coils having their free ends between the convolutions of the coacting end tapered so as to facilitate the insertion there-

CHARLES TERRY.