

No. 824,073.

PATENTED JUNE 19, 1906.

T. W. FOSTER.

BRACELET.

APPLICATION FILED JAN. 6, 1906.

Fig. 1.

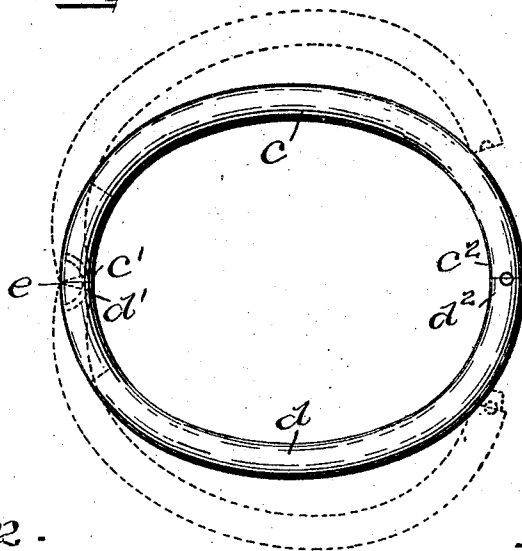


Fig. 2.

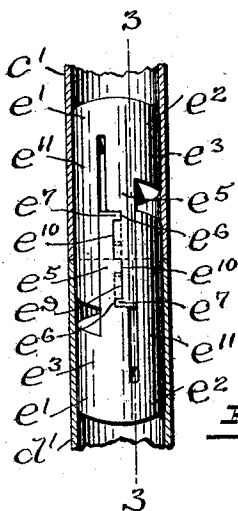


Fig. 3.

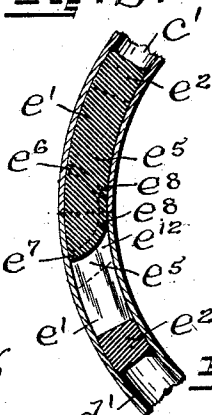


Fig. 4.

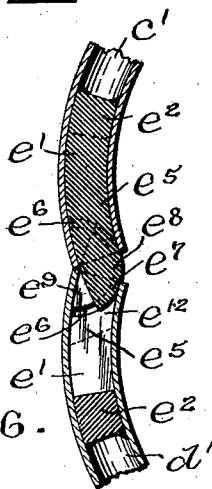


Fig. 5.

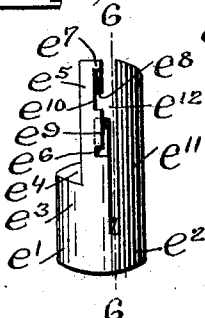
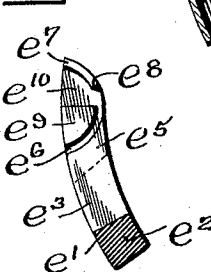


Fig. 6.



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THEODORE W. FOSTER, OF PROVIDENCE, RHODE ISLAND.

BRACELET.

No. 824,073.

Specification of Letters Patent.

Patented June 19, 1906.

Application filed January 6, 1906. Serial No. 294,934.

To all whom it may concern:

Be it known that I, THEODORE W. FOSTER, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented a new and useful Improvement in Bracelets, of which the following is a specification.

This invention has reference to an improvement in bracelets, and more particularly to an improvement in concealed hinges for bracelets.

The object of my invention is to improve the construction of a concealed hinge for bracelets whereby the interlocking hinge members are pivotally secured together under spring tension without the use of the usual pintle, and the hinge has a limited opening movement.

My invention consists in the peculiar and novel construction of a concealed hinge for bracelets, with details of construction, as will be more fully set forth hereinafter.

Figure 1 is a side view of a two-part bracelet provided with my improved concealed hinge and showing the bracelet in the closed position in full lines and in the open position in broken lines. Fig. 2 is an enlarged detail sectional view of the hinge end of the bracelet looking at the outside face of the hinge. Fig. 3 is an enlarged detail sectional view taken on line 3 3 of Fig. 2 through the hinge and adjacent ends of the bracelet and showing the hinge in the closed position. Fig. 4 is an enlarged detail sectional view similar to Fig. 3 and showing the hinge in the open position. Fig. 5 is an enlarged detail view looking at the outside face of one of the interlocking hinge members; and Fig. 6 is a sectional view through one of the hinge members, taken on line 6 6 of Fig. 5.

In the drawings, *c* indicates one semi-oval half, *d* the other semi-oval half, and *e* the concealed hinge of the bracelet. The semi-oval halves *c* and *d* are constructed from a tube which is oval in cross-section. The upper half *c* has the end *c'* for the hinge *e* and the end *c''*. The lower half *d* has the end *d'* for the hinge *e* and the end *d''*. The ends *c'* and *d'* and the ends *c''* and *d''* coincide when the bracelet is closed. The ends *c''* and *d''* may be provided with any one of the well-known forms of catches adapted to hold the ends together when the bracelet is closed.

My improved concealed hinge *e* consists of two identical interlocking members *e'* *e'*. These members *e'* *e'* are shaped to fit in the

ends *c'* and *d'* of the bracelet and curved to conform to the contour of the bracelet, as shown in Figs. 3 and 6. Each member *e'* is constructed integral to have a solid end *e''*, from which extends a rigid arm *e'''*, cut away at *e''''* to form a central arm *e''''*, having on its inner face a groove *e''''''* adjacent its end and the lip *e''''''''* at its end. The inner end of the lip *e''''''''* forms a stop-shoulder *e''''''''''*, and in forming the groove *e''''''''''* and the lip *e''''''''''* a raised portion *e''''''''''* and a depressed portion *e''''''''''* are formed in the inner face of the arm *e''''''*, as shown in Figs. 5 and 6. A spring side arm *e''''''''* extends from the solid end *e''* parallel with the arm *e''''* and forms a space *e''''''''*, as shown in Fig. 5. The center on which the groove *e''''''''* and the lip *e''''''''* is struck coincides with the center on which the hinge opens.

The two members of the hinge are assembled by forcing the central arms *e''''* *e''''* of each member into the spaces *e''''''''* *e''''''''* (against the tension of the spring-arms *e''''''''* *e''''''''*) and bringing the arms into a position for the lip *e''''''''* to enter the coinciding grooves *e''''''''* *e''''''''* with the hinge members on a curved line with each other, as shown in Figs. 2 and 3. The members of the hinge are now forced into the ends *c'* and *d'* of the bracelet into a position for the center on which the hinge opens to coincide with the juncture of the ends *c'* and *d'* of the bracelet. The solid ends *e''* *e''* of the hinge members are now secured in the ends *c'* and *d'* of the bracelet by solder or other means.

The hinge is limited in its opening movement by the stop-shoulders *e''''''''''* *e''''''''''* on the inner ends of the lips *e''''''''* *e''''''''* engaging with each other, as shown in broken lines in Fig. 4. The tension of the spring-arms *e''''''''* *e''''''''* on the arms *e''''* *e''''* tends to firmly hold the lips *e''''''''* in the grooves *e''''''''* *e''''''''* and compensates for wear on the coinciding faces of the arms *e''''* *e''''*. Also the comparatively large faces of the raised portions *e''''''''* *e''''''''*, engaging with the faces of the depressed portions *e''''''''* *e''''''''*, practically eliminates wear on the faces of the lips *e''''''''*, thereby providing a bracelet with a concealed hinge that is not liable to wear loose and throw the ends *c''* and *d''* of the bracelet out of alinement.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a bracelet, a concealed hinge comprising two identical interlocking members each member having a solid end from which extends a rigid arm cut away to form an arm

having on its inner face a groove, a lip, a raised and a depressed portion intermediate the groove and the lip, and a spring side arm parallel with the central arm and forming an intermediate space, as described.

2. A concealed bracelet-hinge comprising two identical interlocking members e' e' each member e' e' having a solid end e^2 from which extends a rigid arm e^3 cut away at e^4 to form an arm e^5 having on its inner face a groove e^6 , a lip e^7 , the inner end of which forms a stop-shoulder e^8 , a raised portion e^9 and a depressed portion e^{10} intermediate the groove e^6 and the lip e^7 , and a spring side arm e^{11} extending from the end e^2 parallel with the arm e^5 , as described.

3. The combination with a tubular half c having the end c' and a tubular half d having

the end d' of a bracelet, of a concealed hinge e composed of two identical interlocking members e' e' each member e' e' having a solid end e^2 from which extends a rigid arm e^3 cut away at e^4 to form an arm e^5 having on its inner face a groove e^6 , a lip e^7 the inner end of which forms a stop-shoulder e^8 , a raised portion e^9 and a depressed portion e^{10} intermediate the groove e^6 and the lip e^7 , and a spring side-arm e^{11} extending from the end e^2 parallel with the arm e^5 , as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THEODORE W. FOSTER.

Witnesses:

ADA E. HAGERTY,
J. A. MILLER.