

P. L. HANSEN.
BRACELET.

APPLICATION FILED SEPT. 30, 1907.

Fig. 1.

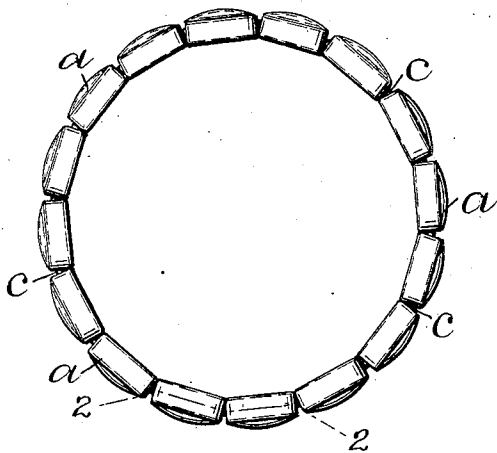


Fig. 2.

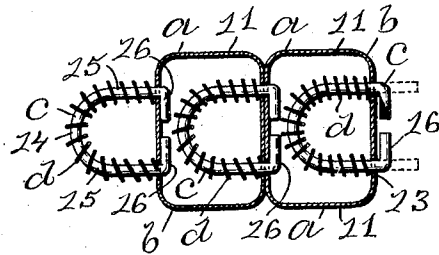


Fig. 3.

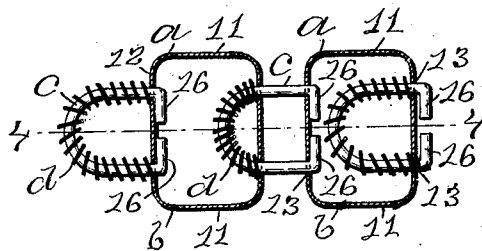


Fig. 4.

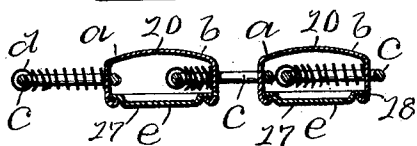
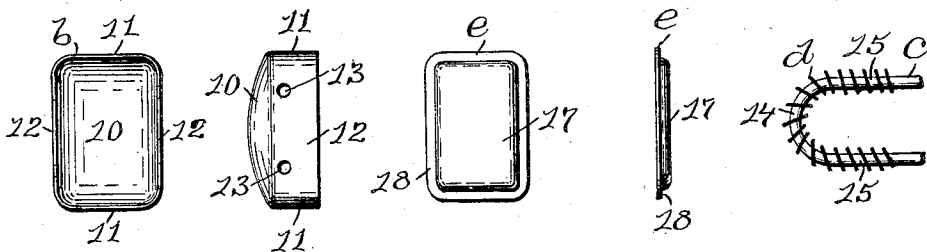


Fig. 5. Fig. 6. Fig. 7. Fig. 8. Fig. 9.



WITNESSES:

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UNITED STATES PATENT OFFICE.

PAUL L. HANSEN, OF PROVIDENCE, RHODE ISLAND.

BRACELET.

No. 896,988.

Specification of Letters Patent.

Patented Aug. 25, 1908.

Application filed September 30, 1907. Serial No. 395,116.

To all whom it may concern:

Be it known that I, PAUL L. HANSEN, 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 expansible bracelets composed of a plurality of spring actuated units.

The object of my invention is to improve the construction of an expansible bracelet, whereby the spring units forming the bracelet are simplified and strengthened and a more durable and flexible bracelet constructed than has heretofore been done.

A further object of my invention is to decrease the cost of manufacturing expansible bracelets composed of a plurality of spring actuated units.

My invention consists in the peculiar and novel construction of an expansible bracelet composed of a plurality of spring actuated units, said units having details of construction, as will be more fully set forth hereinafter and claimed.

Figure 1 is an edge view of an expansible bracelet composed of a plurality of my improved spring actuated units and showing the bracelet in the contracted or normal position. Fig. 2 is an enlarged detail sectional view of two units taken on line 2 2 of Fig. 1 looking toward the face and showing the units in the closed or contracted position. Fig. 3 is an enlarged detail sectional view similar to Fig. 2, showing the units in the expanded position. Fig. 4 is an enlarged detail sectional view taken on line 4 4 of Fig. 3, showing the units in their expanded position. Fig. 5 is an enlarged view of the shell looking into the interior of the same. Fig. 6 is an enlarged side view of the shell, showing the apertures in the side for the connecting link. Fig. 7 is an enlarged view of the back plate looking at the outside of the same. Fig. 8 is an enlarged edge view of the back plate, and Fig. 9 is an enlarged face view of a connecting link and actuating spring.

In the drawings, Fig. 1 illustrates an expansible bracelet composed of a plurality of spring actuated units *a a*, each unit *a* consisting of a shell *b*, a connecting link *c*, a coiled actuating spring *d* on the link and a back plate *e*. The shell *a* is stamped up from sheet metal

to form a rectangular box having the bottom 10 which forms the face of the bracelet, the ends 11 11, and the sides 12 12 in which are two apertures 13 13 for the connecting link *c*, as shown in Figs. 5 and 6.

The connecting link *c* is formed from wire bent **U** shape to form the semi-circular closed end 14 and the straight arms 15 15, as shown in Fig. 9. After a connecting link *c* is inserted through the apertures 13 13 in the sides of two adjoining shells the ends of the arms 15 15 of the connecting link are bent (by the use of a suitable tool) toward each other to form the **L**-shaped ends 16 16 on the arms, as shown in Figs. 2 and 3.

The coiled actuating spring *d* is coiled around and held in its operative position on the connecting link *c* with the ends of the spring extending out onto the arms of the link, as shown in Fig. 1.

The back plate *e* is stamped up from sheet metal and has a raised central panel 17 forming a flat annular lip 18 shaped to fit into the interior of the shell *b*.

In assembling the units to form a bracelet, a connecting link *c* is placed in position, the arms 15 15 of the link inserted through the apertures 13 13 in the adjacent sides 12 12 of two adjoining shells *b b* and the ends of the arms bent toward each other to form the **L**-shaped ends 16 16 on the arms. This brings the ends of the coiled actuating spring *d* into engagement with the inner face of the side of a shell *b* and the **L**-shaped ends 16 16 of the connecting link *c* into engagement with the inner face of the adjacent side of the adjoining shell *b*, as shown in Fig. 2. The back *e* is now placed in the shell *b* and secured by rolling the edge of the shell over the lip 18 on the back, as shown in Fig. 4. These operations are repeated as many times as there are units in the bracelet. The bracelet can now be expanded by pulling the units apart against the tension of the coiled actuating springs *d d* on the connecting links *c c*, as shown in Fig. 3. When released the units assume their normal or contracted position, as shown in Fig. 2, through the tension of the coiled actuating springs *d d*.

It is evident that the shell *b* could have any design or configuration desired without materially affecting the spirit of my invention.

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

1. A bracelet composed of a plurality of

units each consisting of a shell, a U-shaped link connecting two adjoining shells and a coiled spring surrounding the U-shaped portion of the connecting link in the shell.

5 2. A bracelet composed of a plurality of units each consisting of a shell having apertures in its sides, a U-shaped connecting link the arms of which extend through the apertures on the sides of two adjoining shells, a
10 coiled spring on the connecting link engaging with the side of a shell, and means for securing the ends of the connecting link in the adjoining shell, whereby the units are held in their normal or contracted position under
15 spring tension.

3. In a bracelet, a U-shaped connecting link *c* constructed to have the closed end 14

and the arms 15 15 with the bent-over ends 16 16, and a coiled spring *d* surrounding the U-shaped portion of the connecting link, as 23 described.

4. A bracelet composed of a plurality of spring actuated units *a a* each unit *a* consisting of a shell *b*, a U-shaped connecting link *c*, a coiled actuating spring *d* surrounding the 25 U-shaped portion of the connecting link and a back plate *e*, as described.

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

PAUL L. HANSEN.

Witnesses:

J. A. MILLER,

ADA E. HAGERTY.