No. 837,004. PATENTED NOV. 27, 1906.

J. J. SOMMER.

AUTOMATICALLY ADJUSTABLE BRACELET, BELT, &c.

APPLICATION FILED JULY 30, 1906.

Fig. 1.

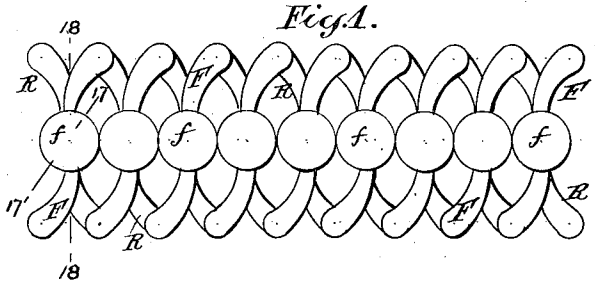


Fig. 2.

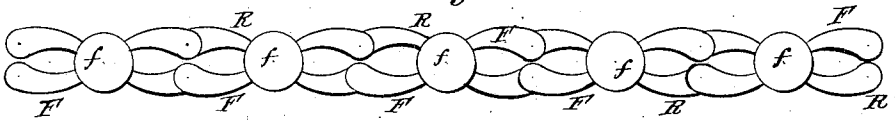


Fig. 3.

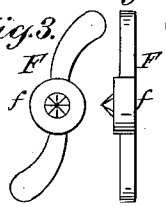


Fig. 4.

Fig. 5.

Fig. 10.

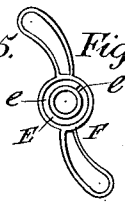


Fig. 11.

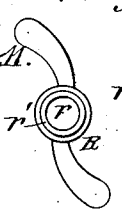


Fig. 12.

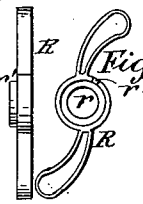


Fig. 13.

Fig. 14.

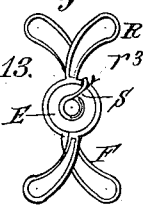


Fig. 8.

Fig. 9.

Fig. 6.

Fig. 7.

Fig. 15.

Fig. 16.

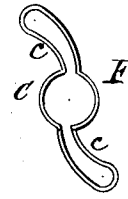


Fig. 17.

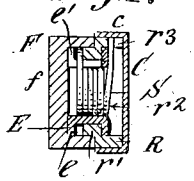


Fig. 18.

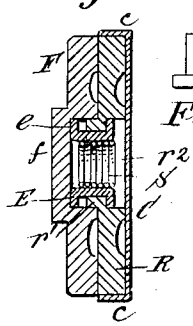


Fig. 19.

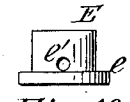
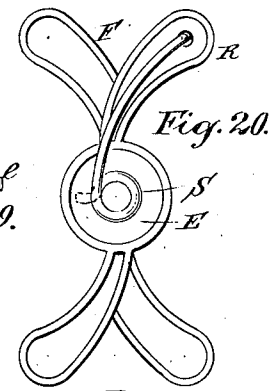


Fig. 20.



Witnesses:
D. W. Gardner.
Wm. H. Smith

Inventor:
John J. Sommer
By his Attorneys
Geo. H. Mott

UNITED STATES PATENT OFFICE.

JOHN J. SOMMER, OF NORTH ATTLEBORO, MASSACHUSETTS.

AUTOMATICALLY-ADJUSTABLE BRACELET, BELT, &c.

No. 837,004. Specification of Letters Patent. Patented Nov. 27, 1906.

Application filed July 30, 1906. Serial No. 328,428.

To all whom it may concern:

Be it known that I, JOHN J. SOMMER, a citizen of the United States, residing at North Attleboro, Bristol county, and State of Massachusetts, have invented certain new and useful Improvements in Automatically-Adjustable Bracelets, Belts, &c., of which the following is a specification.

My invention relates to the class of flexible bracelets, belts, and the like in which springs tend constantly to retract pivotally-connected levers into a normal position, substantially as set forth in my Letters Patent No. 781,969, dated February 7, 1905, and Letters Patent No. 794,193, dated July 11, 1905, the present invention being an improvement thereon and being designed to simplify and cheapen the construction, to afford a greater scope of play or extension, and to render the device more effective and attractive in appearance; and the invention consists in the specific construction and arrangement of parts hereinafter set forth.

In the accompanying drawings, Figure 1 is an elevation of a portion of a bracelet, belt, or like article made in accordance with my invention, the parts being shown in their normal or contracted positions. Fig. 2 is a view of the same with the levers extended. Figs. 3, 4, and 5 are respectively front, edge, and rear views of the outside levers. Fig. 6 is an inner end elevation, and Fig. 7 a side elevation, of one of the hollow fulcrums or eyelets; Figs. 8 and 9, top and bottom views of one of the springs; Fig. 10, a rear view of one of the front levers, showing a hollow fulcrum or eyelet inserted therein. Fig. 11 is a front elevation of one of the rear levers; Fig. 12, an edge view, and Fig. 13 a rear view, thereof; Fig. 14, a rear view of a pair of front and rear levers joined together by a hollow fulcrum or eyelet. Fig. 15 is a rear elevation of a back plate or cover for a rear lever; Fig. 16, a front elevation of the same. Fig. 17 is a section, upon an enlarged scale, taken upon plane of line 17 17, Fig. 1; Fig. 18, a section taken, upon an enlarged scale, upon plane of line 18 18, Fig. 1. Fig. 19 is an enlarged elevation of a modified form of eyelet or hollow fulcrum; Fig. 20, a rear elevation, upon an enlarged scale, of a pair of levers, illustrating a modification in the arrangement of the spring.

In the drawings the front or outer lever is designated by the letter F, and the inner or rear lever by the letter R. The front lever F is formed with a central inverted cup f and is preferably stamped out of relatively thick metal, as "double-stock" gold or other plate, so as to render it heavy and substantial, and particularly to afford sufficient thickness in the bottom or outer portion of the inverted cup to admit of the mounting of a gem or other ornamentation requiring some depth or thickness of metal. Also being thus made of heavy stock, no cover or back plate is required, the inner edges of the lever F being simply drawn up and rolled over to afford an even finish.

Fitting in and soldered or otherwise secured to the central recess or cup f is a hollow fulcrum or eyelet E, formed with an annular flange e and with a recess e' through its side. This recess may be either in the form of a slot, as in Figs. 6 and 7, or of a perforation, as shown in Fig. 19, its function in either case being that of receiving and retaining one end of a spring S.

The inner or rear lever R is also stamped out of metal plate with a central opening r and annular flange r', the latter adapted to fit into the cup f and between its inner side walls and the barrel or cylindrical portion of the eyelet E, which cylindrical portion is made of sufficient length to protrude through the central opening r^2 and beyond the annular flange r' of the rear plate R, so that its edge may be turned over said annular flange r' to couple the two levers F and R together, as will be understood by reference to Figs. 17 and 18, a depression having been formed in the back of the rear lever R of sufficient depth to accommodate and countersink the overturned edge of the eyelet within the back of said plate.

One end of the coiled spring S is held in the recess e' in the eyelet E, the other in a notch r^3 in the hub of the rear lever R, or it may extend through the rear depression in one arm of said lever and be inserted through the pivot-hole formed in the rear extremity, as illustrated in Fig. 20, in which case it may be utilized as a pivot in connecting the lever to the end of an adjoining front lever.

The back of the rear lever R is closed by a thin cover C of sheet metal stamped up for the purpose with flanges e, which are drawn over and inclose the edges of said rear lever.

It will be seen that a distinguishing feature of my present construction is the use of a hollow fulcrum-eyelet within which the body of the spring is coiled. Another distinguishing feature is that the parts are allowed a wider

range of motion, the only limitations thereto being the actual contact of the central circular portions of adjoining levers when closed or the actual contact of the outer ends of the levers when fully extended, thus affording greater scope and freedom of adjustment in use, a desideratum especially where bracelets are used to hold in place the long sleeves of the gloves at present in vogue.

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

1. In a device of the character designated, the combination of a front lever formed with a central annular cup, a hollow fulrcum-eyelet fitting in and secured to said cup, a rear lever formed with a central annular flange fitting into said hollow cup on the front lever and secured thereto by the turned edge of the hollow fulcrum-eyelet, and a coiled spring in said hollow fulcrum-eyelet, one end of said spring engaging with the fulcrum-eyelet and the other with the rear lever, for the purpose described.

2. In a device of the character designated, the combination of a front lever formed with a central annular cup, a hollow fulcrum-eyelet fitting in and secured to said cup, a rear lever formed with a central annular flange fitting into said hollow cup on the front lever and secured thereto by the turned edge of the hollow fulcrum-eyelet, a coiled spring in said hollow fulcrum-eyelet, one end of said spring engaging with the fulcrum-eyelet and the other with the rear lever, and a flanged cover drawn over the back of said rear lever, for the purpose described.

JOHN J. SOMMER.

Witnesses:
E. L. LOUGHLIN,
J. THOMPSON.