(No Model.)

T. B. CLEVELAND.

SPRING HINGE FOR BRACELETS.

No. 248,142. Patented Oct. 11, 1881.

FIG. 1.

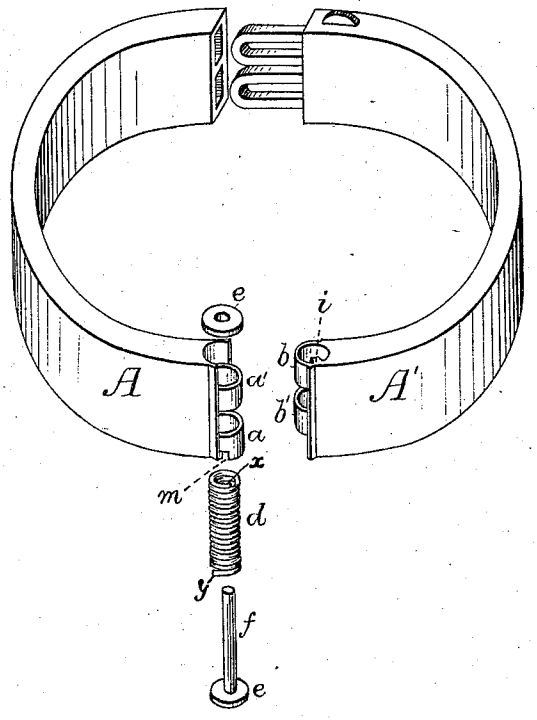
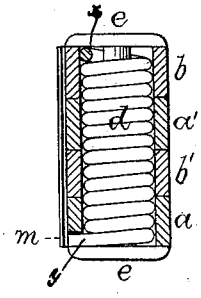


FIG. 2.



Witnesses:

H. L. Fulenwider

James F. Tobin.

Inventor:

Thomas B. Cleveland

by his attorneys

Howson and Sons

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

THOMAS B. CLEVELAND, OF NEWARK, NEW JERSEY, ASSIGNOR TO ISAAC A. ALLING, HORACE ALLING, AND WM. R. ALLING, OF SAME PLACE.

SPRING-HINGE FOR BRACELETS.

SPECIFICATION forming part of Letters Patent No. 248,142, dated October 11, 1881.

Application filed June 17, 1881. (No model.)

To all whom it may concern:

Be it known that I, THOMAS B. CLEVELAND, a citizen of the United States, residing in Newark, New Jersey, have invented an Improved Spring-Hinge, of which the following is a specification.

My invention relates to an improvement in that class of spring-hinges for bracelets and other articles of jewelry in which a spiral spring is contained within the eyes of the hinge; and my improvement consists in a peculiar manner, fully described hereinafter, of constructing a hinge of this class with the view of readily introducing the spring into its place.

In the accompanying drawings, Figure 1 is a perspective view of a bracelet with my improved spring-hinge, and Fig. 2 an enlarged sectional view of the hinge.

The two segmental halves A A′ of the bracelet are furnished at their front ends with any suitable spring-catch device, the other ends of the segments being connected together by a spring-hinge, the peculiar manner of constructing which constitutes my invention.

On the segment A of the bracelet are two eyes, *a a′*, and on the segment A′ are two similar eyes, *b b′*, the eyes of the two segments being arranged to fit together, as shown in Fig. 2.

To the opening presented by the combined eyes of the two segments is adapted a coiled spring, *d*, which is as long as the bracelet is wide from edge to edge, the wire at one end, *x*, of the spring terminating abruptly, and at the other end, *y*, projecting from the convolution of the spring.

That end, *x*, of the spring where the wire terminates abruptly presents no obstruction to the introduction of the said spring into the opening presented by the combined eyes of the two segments of the bracelet, and in thus introducing the spring the projecting end *y* of the wire is fitted into the recess *m* of the eye *a* of the segment A, while the abrupt end *x* of the wire abuts against an internal lug, *i*, in the eye *b* of the segment A′. After the spring has been thus introduced into its place, a pin, *f*, is passed through it and through a washer, *e*, the projecting end being then riveted against the washer.

The tendency of the spring is to maintain the bracelet in a closed condition, tension being imparted to the spring when the bracelet is opened, and the spring recoiling when the segments of the bracelet are released.

The spring being of small diameter and concealed from view, the hinge presents an appearance differing but slightly from an ordinary hinge without a spring.

The two segments of the bracelet have the usual guards for limiting the extent to which the bracelet can be opened.

There may be more than two eyes on each segment of the bracelet, and the invention may be applied to articles of jewelry other than bracelets—in fact to any small articles which require neat spring-hinges.

I am aware that a spiral spring has been combined with the hinge of the two segments of a bracelet, and that a spiral spring has been contained within and concealed by the eyes of a hinge; but this spring was not constructed for introduction into and application to the eyes in the manner described above.

I claim as my invention—

The combination of the eyes *a a′* and *b b′* of a spring-hinge, the eye *b* having an internal lug, *i*, and the eye *a* a recess, *m*, with a rivet or pin, *f*, and with a spiral spring, the wire of which terminates abruptly at one end *x*, for abutting against the said lug *i*, and the other end projecting at *y*, for fitting into the said recess *m*, all as set forth.

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

THOS. B. CLEVELAND.

Witnesses:

CHAS. E. COOK,

ALFRED S. CHAPMAN.