(No Model.)

E. C. GOEPEL.

SATCHEL FRAME ATTACHMENT.

No. 443,138. Patented Dec. 23, 1890.

Fig. 1.

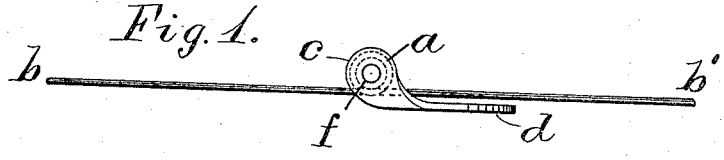
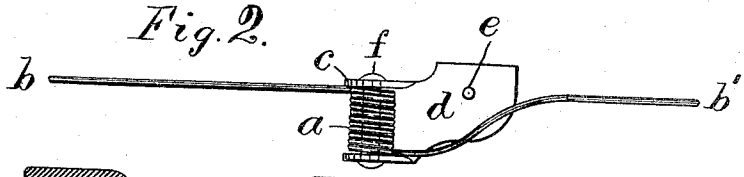


Fig. 2.



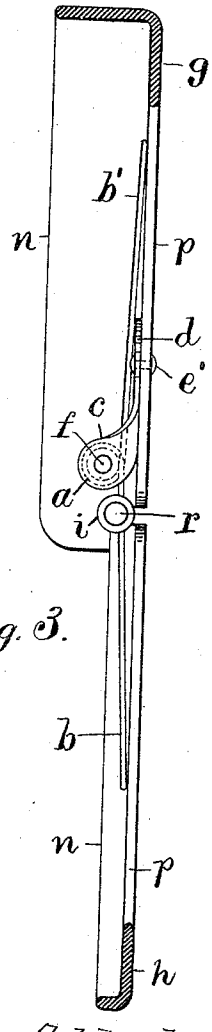


Fig. 3.

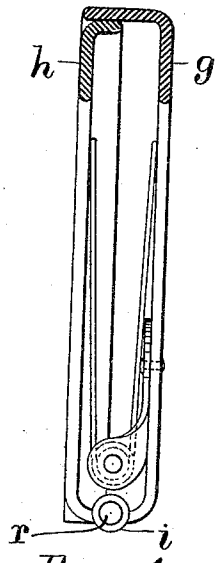


Fig. 4.

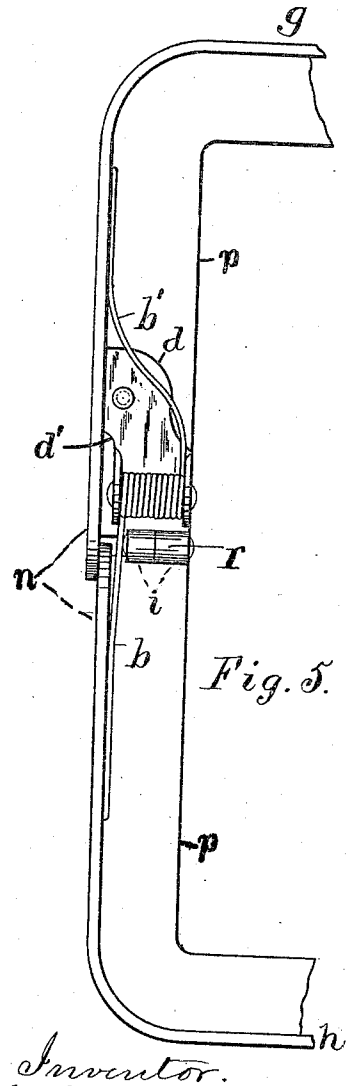


Fig. 5.

Attest:
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UNITED STATES PATENT OFFICE.

EWALD C. GOEPEL, OF NEWARK, NEW JERSEY.

SATCHEL-FRAME ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 443,138, dated December 23, 1890.

Application filed September 15, 1890. Serial No. 364,949. (No model.)

To all whom it may concern:

Be it known that I, EWALD C. GOEPEL, a citizen of the United States, residing at Newark, Essex county, New Jersey, have invented certain new and useful Improvements in Attachments for Bags and Satchels, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

The object of this invention is to furnish a means of applying a spring to a bag or satchel frame to open the frame automatically when the catch is released. The spring is mounted upon a pivot secured to a foot-piece which may be riveted to the bag-frame. The spring-wire is wound upon the pivot, and is formed with two projecting ends, which are bent, one of them to pass between the outer plates of the bag-frame and the lugs which form the hinge of the same, and the other is bent over the foot-plate into close contact with such outer plate. By securing the foot-piece inside a bag-frame adjacent to the hinge the opposite ends of the spring press upon the opposite sides of the bag-frame and operate to push them apart when uncaught.

In the drawings, Figure 1 is an edge view of the attachment. Fig. 2 is a plan of the same. Fig. 3 is a section across a bag-frame at the points *g h* in Fig. 5, with the inner and outer ends separated. Fig. 4 is a similar section with the frame closed, and Fig. 5 is a plan view of the parts shown in Fig. 3.

The spring is formed of wire, with a coil *a* and projecting ends *b b'*. The coil is sustained by a pivot-pin *f*, fixed upon a foot *d* by ears *c*, and the ends *b b'* project at right angles to the pivot-pin.

The parts *g* and *h* of the bag-frame and their hinge-ears *i* are shown in the form now usually preferred in Figs. 3 and 5, with the ears upon the inner plates *n* of the frame, and connected by a rivet *r* independently of the outer plates *p*. By this construction the outer plates cover the hinge externally, so that the hinge-rivet is not at all exposed to view. This construction is a very desirable one; but it wholly prevents the winding of a wire spring around the hinge-rivet, as was formerly done when the rivet-wire was extended through the frame to the outside and journaled in the outer plates *p* of the frame. By my attachment, however, a coiled spring may be applied with its free ends between the frame-sides *g* and *h*, and in such a relation to the hinge as to be coiled more tightly by the movement of the frame in closing the bag. Thus in Figs. 3 to 5 the foot *d* is shown secured to one of the frame-plates *p* by a rivet *e'*, inserted through a hole *e* in the foot, the pin *f* being held as close to the bag-hinge as is practicable. The ends of the spring-wire are extended against the inner sides of the frame, and the coil is so wound as to be tightened when the ends *b b'* are pressed toward one another by the closing of the frame. One end *b* of the wire is necessarily extended past the bag-hinge when the frame is open, as in Figs. 3 and 5, and such end is therefore led from the inner end of the pin *f* so as to pass between the hinge-lugs *i* and the frame-plates *p*. The other end *b'* from the outer end of the coil or pin is bent inward over the foot *d* to lie in the corner of the plates *p* and *n*. Both ends are thus wholly prevented from projecting into the bag or satchel. The end *b* of the wire slides upon the plate *p* as the bag is closed, so that its extremity is shown farther from the bag-hinge in Fig. 4 than in Fig. 3.

Two ears *c* are shown upon the foot *d* with the pin *f* secured at both ends in the same; but it is immaterial how the pin is supported on the foot, as its function is to form a fulcrum for the spring when twisted by the motion of its free ends *b b'*. The foot *d* and ears *c* are formed to hold the end *b* of the wire just between the lugs *i* and the plates *p*, the foot being offset at *d'* to facilitate the adjustment of the foot in the proper relation to the lug *i*, or, the foot being otherwise set, to locate the end *b* between the lugs *i* and the plate *p* when the foot is riveted upon the frame-plate *n*.

I do not claim a wire coil applied directly to a bag-hinge, as that is not new and cannot be used with the kind of bag-hinge shown herein, which is commonly known as the "English club."

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

The combination, with a bag-frame having

the outer frame-plates *p* and the inner frame-plates *n*, provided with hinge-lugs *i* clear of the outer plates, of the foot *d* and pin *f*, provided with the wire coil *a*, having opposite ends *b b'*, and the foot secured upon the plate *p*, with the end *b* of the wire arranged between the lugs *i* and the plate *n*, substantially as shown and described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

EWALD C. GOEPEL.

Witnesses:
H. J. MILLER,
THOS. S. CRANE.