

UNITED STATES PATENT OFFICE.

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SPRING-BINDER.

No. 887,979.

Specification of Letters Patent.

Patented May 19, 1908.

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To all whom it may concern:

Be it known that I, JOHN W. STOCKWELL, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Improved Spring-Binders, of which the following is a specification.

This invention relates to improvements in spring binders and more particularly to that class used for temporary purposes.

The object of this invention is to provide a metal binder having a covering of leather, or other suitable material, to agree with the binding, in color and texture, of the pamphlets or pages which are secured therein.

A further object is to avoid the oxidation of such metal binders by a covering preventing the same from rusting and thus discoloring the leaves contained in the binder; and finally to provide, in connection with such binders, means whereby they may be expanded or distended without difficulty for the removal or insertion of the leaves therein.

These objects are attained by the novel and useful combination with a spring binder of a suitable covering and separable means for the operation of the binders, hereinafter fully described and shown in the accompanying drawings, in which:

Figure 1. is a perspective view of my improved binder having leaves therein, and showing a portion of the binder covering removed. Fig. 2. is a similar perspective view, but showing the rear of the binder. Fig. 3. is an enlarged transverse section of the binder made in accordance with my invention. Fig. 4. is a similar section showing a modified form of construction. Fig. 5. is a side elevation of the expanding tool, the handle showing the piercing and cord inserting means, and Fig. 6. is a front view of the tool showing the arrangement of jaws.

Similar characters refer to similar parts throughout the several views.

My improvement consists, primarily, of a suitable flexible covering 1, for the binder 2, which may be secured to the underlying metal portion by cement or other means ordinarily used for attaching flexible fabrics or substances to metal. The said covering is intended to be neatly folded and secured over the edges and become to all intents and purposes an integral part of the binder.

My improved binder is preferably formed

of a resilient plate bent into a substantially cylindrical form having a straight back 3. The ends of said plate being brought adjacent each other to form binding edges 4; and at a point approximately midway in the length of the binder I make two elongated openings 5 at the back of the binder, and at about the junction of the straight portion and curved sides, while near the front edges are series of perforations 6.

The edges of the binder that come in contact with the leaves or pages may preferably be irregular, presenting a series of indentations, but I do not wish to confine myself to any special shape or form of edge whatever. Neither do I wish to be constrained to any particular size or length of binder, or number I may use on a single set of pages, as for instance I may make a very small size for vest pocket memorandums, or use several of a much larger size on heavy ledgers.

In Fig. 4, I have shown a modified form of binder, possibly less expensive in construction, it being merely a cylinder, containing a filling 3', secured in any suitable manner, against which the backs of the inserted pages may contact, thus forming a straight booklet, in place of the curved edge surface otherwise produced.

I prefer to make for use with my improved binder a special tool 7, in such shape that the handles 8 and 8', when pressed together cause the pronged jaws 9 and 9', to open, and if the said jaws have been inserted in the openings 5, in the binder, they will contact with the inner side thereof, and cause the same to open or expand readily; the said openings 5, being at a greater distance apart than the thickness of the sheets it is expected to use therein, allowing the prongs 9 and 9' to enter without interfering with the contents of the binder.

I may avoid the use of the openings 5, by making the pronged jaws 9 and 9' of an increased length and inserting them in the binder at either end thereof, thereby obtaining the same results as if inserted in the openings 5.

The needle pointed portion 10, of the handle 8', belonging to the expanding tool 7, is adapted to be inserted through the perforations 6, in the binder for the purpose of piercing the pages or leaves inclosed therein and, if the said needle point be provided with a suitable cord or thread 11, passed through

the eye 12, in the handle 10, the leaves may be secured together in such manner that when the clip is removed, leaving the cord in the pierced holes, they may be secured together after the manner of a book or pamphlet.

I am well aware that temporary binders and spring clips have long been in use, also that devices for the operation of same are in existence, hence I do not claim either the clip or the tool broadly, but

What I do claim and desire to secure by Letters Patent is:

1. A spring binder comprising a resilient plate bent into a substantially cylindrical form, so that the ends of said plate are brought back to each other to form binding edges, said plate being provided near each binding edge with a series of perforations, a block fixed laterally within the plate having a flat face opposite the opening and a leather

or analogous covering attached to the entire outer area of the plate.

2. A spring binder comprising a resilient plate bent into a substantially cylindrical form, so that the ends of said plate are brought adjacent each other, so as to form binding edges, said plate being provided near each binding edge with a series of perforations, the center of said plate being provided with elongated openings, and a leather or analogous covering extending over the entire area of the plate and secured thereto, said covering being provided with perforations registering with the perforations of the plate.

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

JOHN W. STOCKWELL.

Witnesses:

WARREN E. WILLIS,
EUGENE V. COGGY.