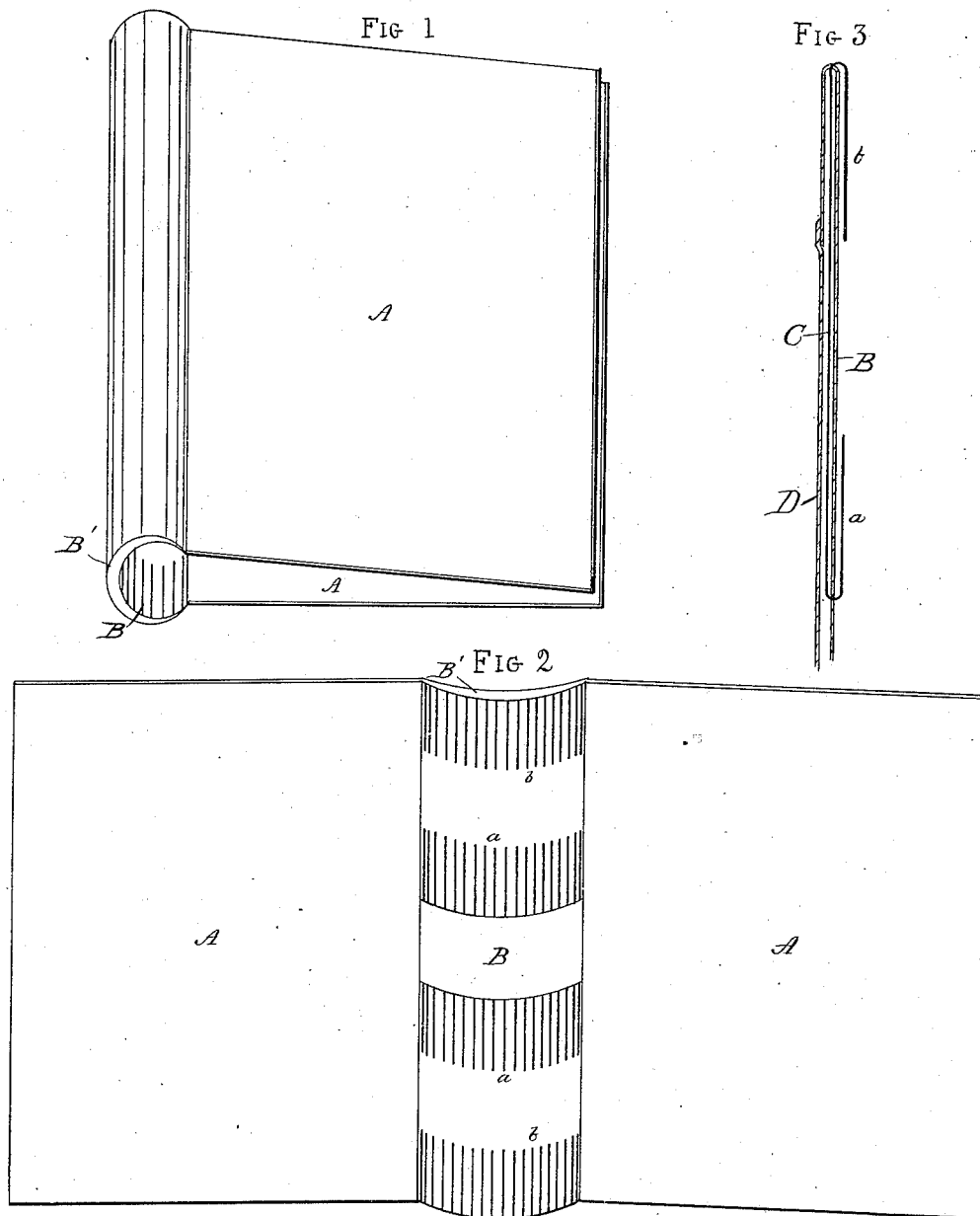


(Model.)

L. P. KEECH.
MUSIC SHEET BINDER.

No. 307,468.

Patented Nov. 4, 1884.



WITNESSES

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MUSIC-SHEET BINDER.

SPECIFICATION forming part of Letters Patent No. 307,468, dated November 4, 1884.

Application filed October 10, 1883. (Model.)

To all whom it may concern:

Be it known that I, LAWSON P. KEECH, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Music-Sheet Binders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention is designed to overcome difficulties in the practical use of music-binders heretofore devised, viz: First, a binder may hold the sheets securely, but when it is set up on a music-rest before the performer it will not remain open flat; second, a binder may have a series of strings or threads at the back which hold the sheets and give the desired effect of opening flat on the music-rest, but the sheets not being secured to the threads or back their own weight causes them to slip down when the binder is set up on end and the sheets become torn by the threads; third, other devices for binding the sheets by perforating for cords, tape, &c., involve the impossibility of temporarily withdrawing a sheet without mutilation. I avoid these difficulties and attain the objects desired by the following described device, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of the binder closed; Fig. 2, an interior view of the binder lying open. Fig. 3 is a longitudinal section, on an enlarged scale, through one of the series of fasteners, showing the position of the wires as they are secured in the flexible material forming the back.

The outer part of the binder is a case made in the usual manner, consisting of two covers, A, connected by a flexible back, B'. To the inside of the back of this case I secure an inner back, B, in which a series of malleable wire fasteners, C, are either cemented or woven, so that for each sheet to be filed there are provided two wire ends, *a a*, for inserting through perforations made by a pin the size of the wire at the fold of the sheet, and two similar wire ends, *b b*, for bending over each end of the fold. These wire-fasteners are composed of two sections, one of which is shown in Fig. 3. In the construction there

illustrated the inner ends, *a*, of each section of the fasteners are passed through the inner part of the back B, and the outer ends, *b*, thereof passed through the back at its upper edge, which is folded over on the body of the fasteners, the body being cemented to the back and covered by the folded-over part of each section thus extends beyond the end of the back, so as to be folded over the end of the sheet inserted, and the other end of each section is to be passed through a perforation in the fold of said sheet. The sheet thus fastened to the flexible back cannot slip endwise or become torn at the fold. The volume at all times, and when the binder is filled, will remain open flat at any page while set upon the music-rest. When required, a sheet may be easily withdrawn by bending the wires up, and the same sheet may be put back or another put in its place.

In the manufacture of this binder the wire fastenings C *a b* may be cemented or woven in the outer back and the interior back dispensed with.

What I claim as my invention is—

1. The binder having a flexible back provided with wire fasteners secured therein substantially as described, with the outer ends of said fasteners folding over the outer edges of said back.

2. The binder consisting of the outer case, A A B', and an interior flexible back, B, in which are secured wire fasteners C, the outer ends of which fold over the outer edges of said interior back.

3. The binder having a flexible back provided with wire ends *a* to pass through perforations in the folds of the sheets to be inserted, and wire ends *b* to fold over the edges of said sheets at the folds.

4. The binder having a flexible back provided with wire fasteners cemented to the inner part of the back, and having the ends thereof passed through said back, the upper ends folding over the outer edges of the back.

LAWSON P. KEECH.

Witnesses:

W. C. KEECH,
B. F. MORSELL.