

(No Model.)

J. FITZPATRICK & J. RING.
BINDER FOR PAPERS, &c.

No. 460,090.

Patented Sept. 22, 1891.

Fig. 1.

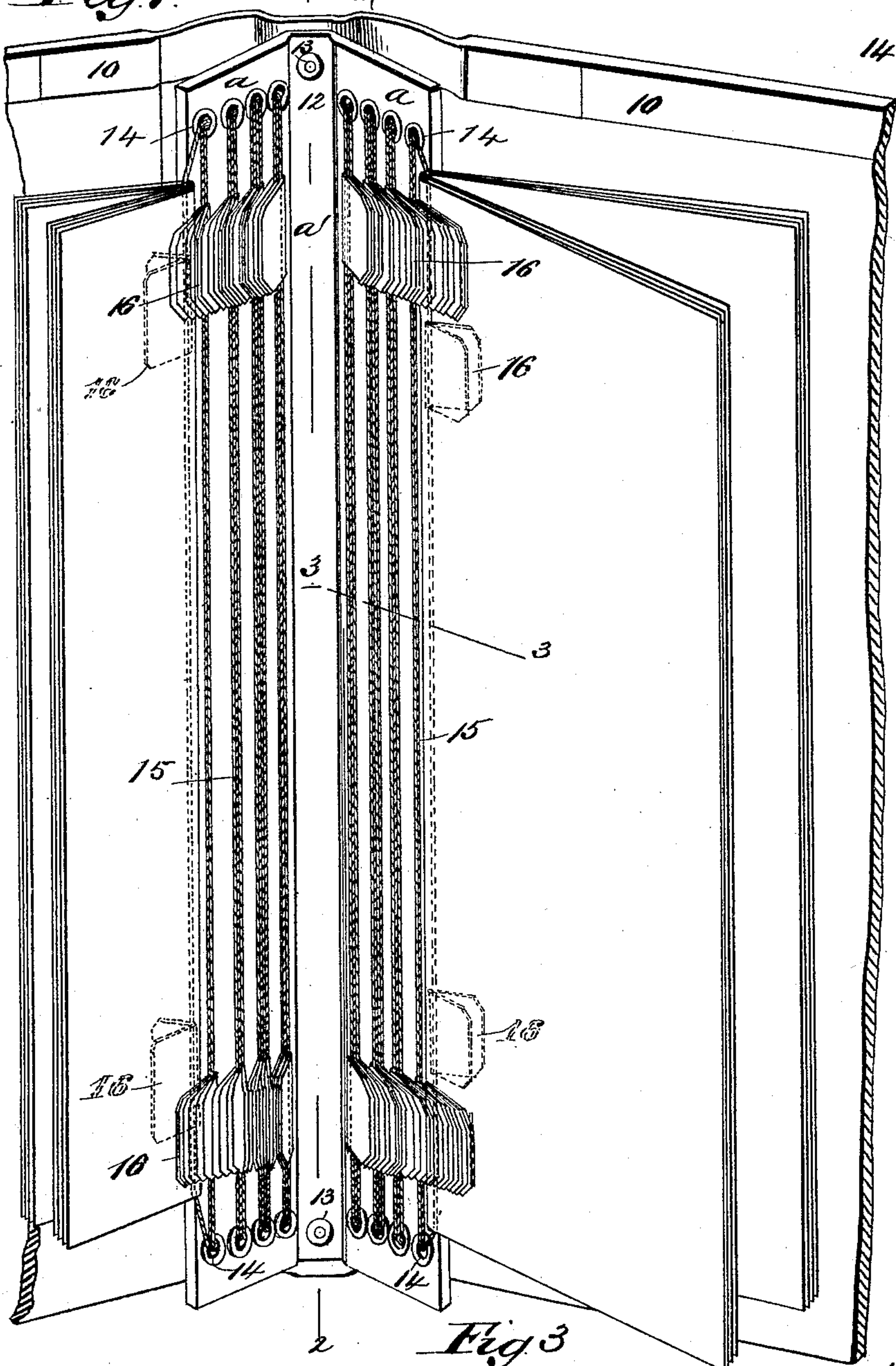


Fig. 2.

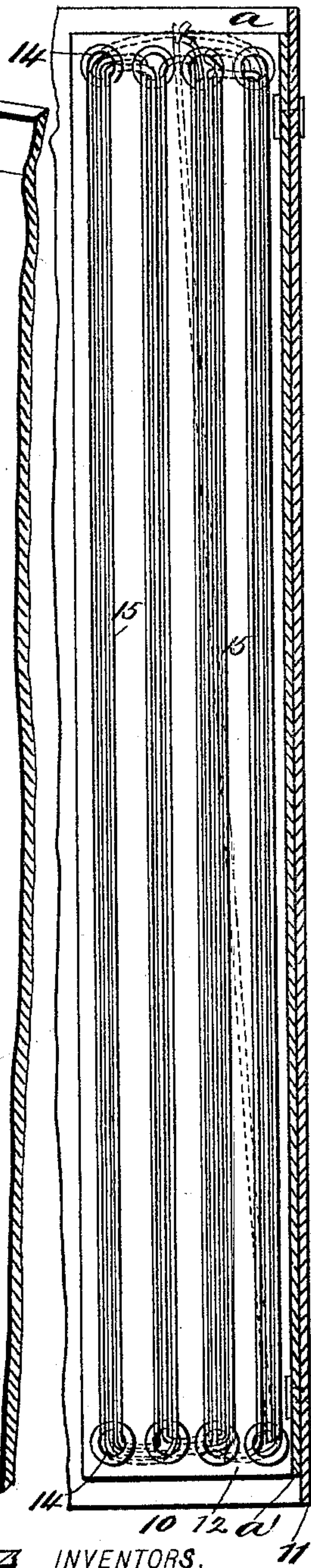
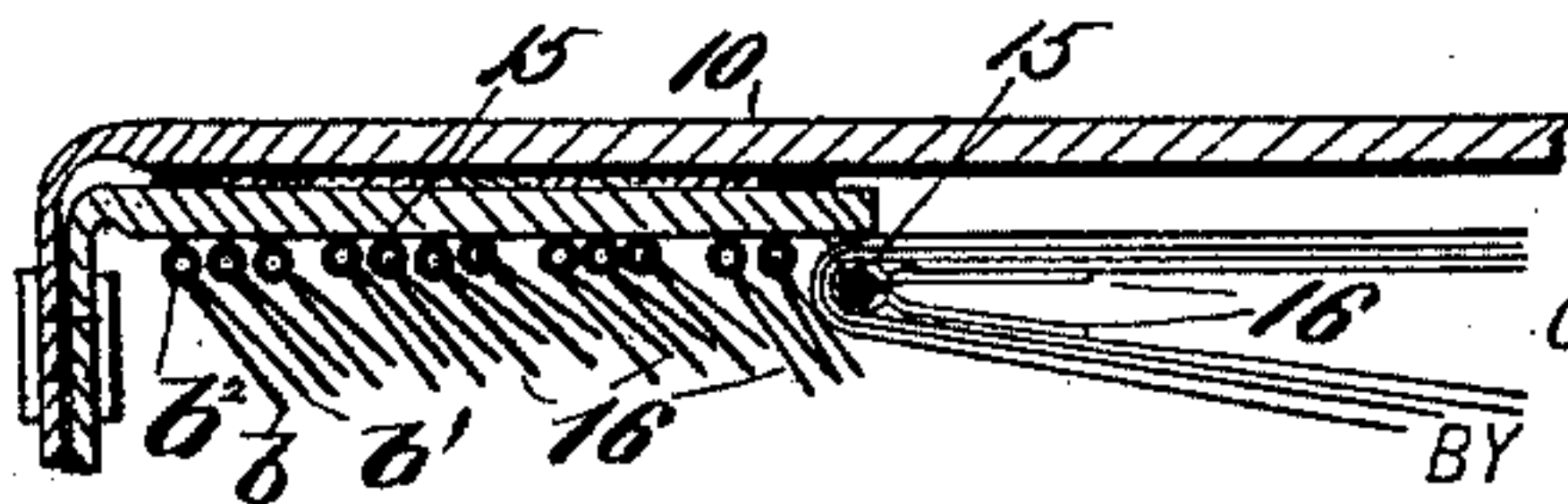


Fig. 3.



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BINDER FOR PAPERS, &c.

SPECIFICATION forming part of Letters Patent No. 460,090, dated September 22, 1891.

Application filed October 16, 1890. Serial No. 368,340. (No model.)

To all whom it may concern:

Be it known that we, JAMES FITZPATRICK, of Brooklyn, in the county of Kings and State of New York, and JOHN RING, of New York city, in the county and State of New York, have invented a new and useful Improvement in Binders, of which the following is a full, clear, and exact description.

Our invention relates to an improved binder for papers, magazines, and like publications, and has for its object to provide a device of exceedingly simple and durable construction, and also to provide an effective and convenient means for removably securing the papers in the binder.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a partial perspective view of the binder open. Fig. 2 is a central vertical section on line 2 2 of Fig. 1, and Fig. 3 is a partially-horizontal section on line 3 3 of Fig. 1.

The body of the binder consists of an auxiliary cover comprising two sides 10, preferably made of stiff material, and a flexible back 11, uniting the sides, while a second inner auxiliary back 12 is secured centrally to the cover-back by means of rivets 13 or equivalent fastening devices. The said auxiliary back comprises two rigid side board or plate sections *a* and an intermediate section *a'*, which intermediate section is connected with the back of the cover. The sides of the inner or auxiliary back may be made of wood, papier-maché, pasteboard, or metal. When of metal, the intermediate section is preferably of the same material, and any approved form of hinge may be employed to unite the sections; but when the sides are made of pasteboard or a like material they are preferably covered with stout canvas or other fabric and the fabric is continued from one side to the other, forming thereby the flexible intermediate sec-

tion illustrated in the drawings. The side sections are of such a width that if folded down to an engagement with the back of the cover their longitudinal edges will fit snugly against the inner longitudinal edges of the sides of said cover; but if in practice it be found desirable the sides of the auxiliary back may be made of a greater or less width than illustrated.

In each side of the auxiliary cover, at the ends thereof, a series of openings 14 is produced, which openings are preferably eyeleted and arranged in pairs. Thus, for instance, each side of the cover at each end may contain two, four, or six of the eyeleted openings, according to the width of the side.

A series of cords 15 is run longitudinally across the inner or front face of each side of the auxiliary back. The cords are usually in one piece and are so laced that two, three, or more strands extend from each lower eyelet to the corresponding one above without the cords being continued downward or upward at the back or outer faces of the sides, as shown in Fig. 2. This is effected usually by lacing the cords through the corresponding pairs of eyelets until a sufficient number of strands have been run across the inner or front faces of the sides, whereupon the cord is carried at the back of the sides, transversely thereof, to the next set of eyelets and the operation is repeated. Thus the cords are simply looped upon the under face of the sides of the cover at both ends, which greatly economizes in material.

We desire it to be distinctly understood that while an ordinary cord is preferred wire may be substituted, if so desired, and in the event that the auxiliary back is made of metal, wire is preferably used.

Each strand or cord of wire 15 has attached thereto at top and bottom a tab 16, which tab consists of two leaves *b* and *b'*, as shown in Figs. 1 and 3, and a sleeve *b²*, uniting the leaves and preferably integral therewith, whereby the tabs may be slid up or down upon the cords to accommodate pamphlets or papers of different lengths. The leaves of the tabs are covered upon their outer faces with

any approved adhesive compound—mucilage, for instance.

In operation to introduce a paper into the binder one of the cords or strands 15 is lifted upward a sufficient distance to slide the paper through, the said paper being opened at its center, and when the central crease is beneath the cord or strand the leaves of the tabs are moistened, and the tabs, after being carried to the outer edges of the paper, are cemented to the central leaves, whereby it will be readily observed that the paper is reinforced at its weakest point—namely, at its top and bottom edges—and is held in proper engagement with the cord, and thereby prevented from dropping from the holder while being read or while the holder is being manipulated.

The device is exceedingly simple and durable, economic, and capable of receiving pamphlets, papers, magazines, &c., of any length desired.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. A binder consisting of a cover and an auxiliary back attached to the back of the cover, comprising a central section and hinged side sections, the said side sections having at-

tached thereto retaining-strands, as and for the purpose specified.

2. In a binder, the combination, with retaining cords or strands, of tabs loosely mounted upon said cords, comprising a sleeve and leaves connected with the sleeve, the said leaves having an adhesive material applied to one face, as and for the purpose specified.

3. In a binder, the combination, with a cover, of an auxiliary back attached to the back of the cover, the said auxiliary back comprising a central section, sections hinged thereto, and retaining strands or cords attached to the hinge-sections, as and for the purpose specified.

4. In a binder, the combination, with a cover, of an auxiliary back attached to the back of the cover, comprising a central section and two sections hinged thereto, cords or strands extending from end to end of the hinge-sections across the upper or outer faces thereof, and adhesive tabs movable upon the said cords or strands, as and for the purpose set forth.

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