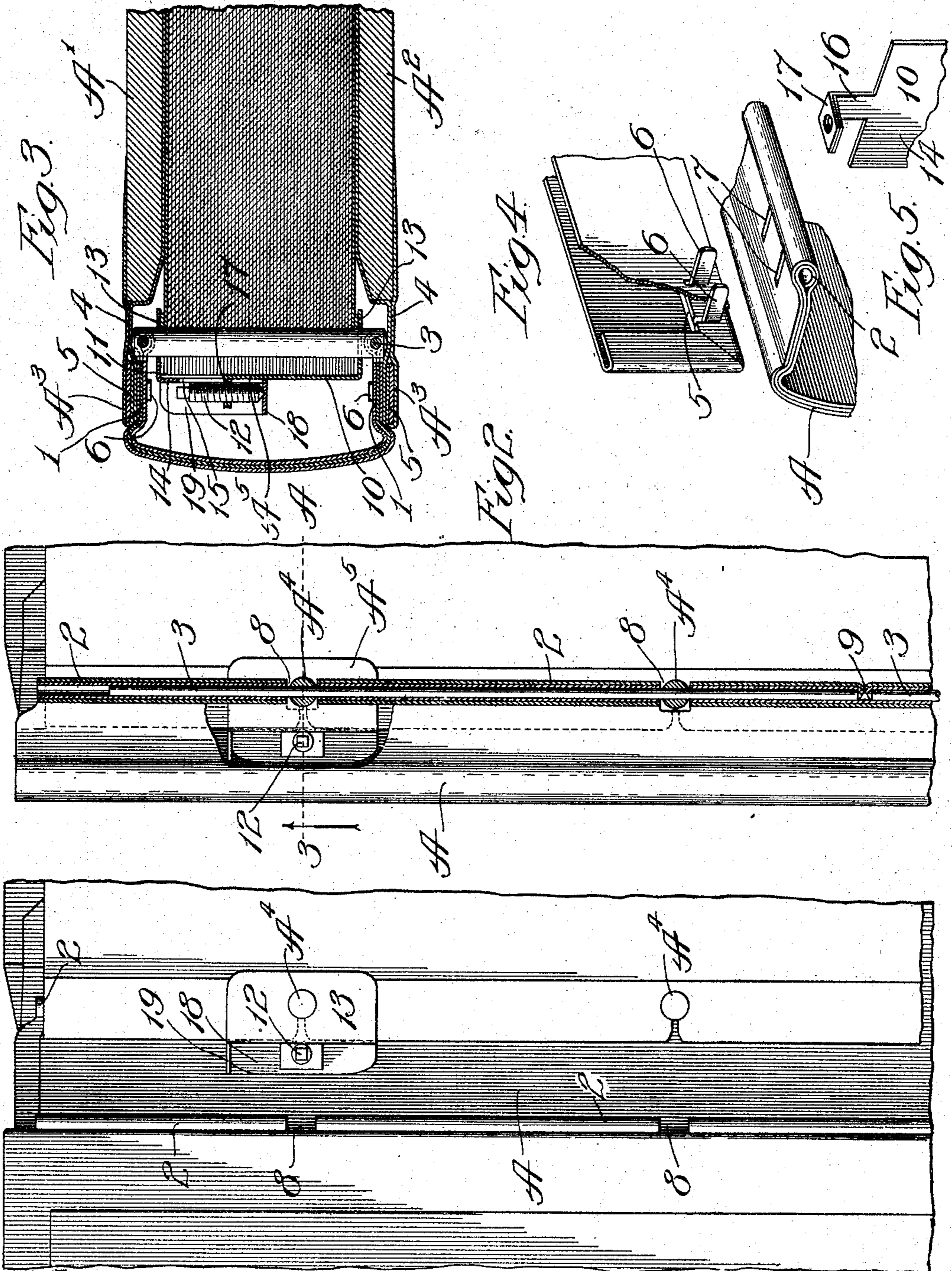


H. S. JONES.
BINDER.

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946,902.

Patented Jan. 18, 1910.



Witnesses:
John Enders
Chas. H. Buell

Fig. 1.

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Attys. &

UNITED STATES PATENT OFFICE.

HARRY S. JONES, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO WILLIAM GIFFORD JONES, OF CHICAGO, ILLINOIS.

BINDER.

946,902.

Specification of Letters Patent.

Patented Jan. 18, 1910.

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To all whom it may concern:

Be it known that I, HARRY S. JONES, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Binders, of which the following is a specification.

My invention relates particularly to loose-leaf binders adapted for binding public records, or other important papers, where it is desirable to provide against unauthorized removal of the book contents, or any portion thereof; and my primary object is to provide a binder particularly adapted to serve as a transfer-binder for records, and adapted to prevent the records, or any portion thereof, from being abstracted from the binder without rendering noticeable the tampering with the book.

My invention is illustrated in its preferred embodiment in the accompanying drawing, in which—

Figure 1 represents an inner broken view of a binder constructed in accordance with my invention, with the binding-posts disconnected from one side of the back of the binder and the corresponding cover-section; Fig. 2, a broken plan section of the same, showing the back brokenly, one of the cover-sections removed, and the hinge in section, Fig. 3, a broken vertical section taken, as indicated, at line 3 of Fig. 2; Fig. 4, a broken perspective view showing the manner in which the cover-sections are joined to the back of the binder; and Fig. 5, a broken perspective view of a clamping-member employed.

In the construction illustrated, A represents a binder-back; A¹, A² cover-sections flexibly connected therewith by means of attaching-devices A³, now well understood in the art; A⁴, binding-posts detachably connected with the flanges of the back A; and A⁵, internal clamping-devices (one shown) located within the back A and serving to clamp the loose leaves to facilitate their insertion in the binder and to prevent unauthorized removal therefrom.

The back A and cover-sections may be constructed in accordance with any approved method. In the illustration given, the back A is of curved form and equipped with forwardly-projecting flanges 1 having their margins rolled to afford barrels 2 adapted to receive pintles 3; and the devices A³ which

join the cover-sections comprise flexible members 4, which may be of leather, and attaching-plates 5 equipped with clenching lugs 6 which pass through slots 7 in the flanges 1.

The binding-posts A⁴ are provided near their ends with transverse perforations which receive the pintles 3. The barrels 2 are cut away at intervals, as indicated at 8, to accommodate the ends of the binding-posts. In binders of large size, as binders of this character ordinarily are, it is preferred to make each pintle in two sections, as illustrated in Fig. 2, the inner ends of the pintle-sections being pointed to facilitate their insertion. The outer ends of the pintle-sections are left without any means for effecting withdrawal; and the barrels 2 are, in the manufacture, indented, or struck in, as shown at 9, to prevent the pintle-sections from being forced through.

Each clamping-device A⁵ preferably comprises a lower clamping-member 10 of angular form; an upper clamping-member 11 of angular form, said clamping-members being provided with post-receiving perforations; and a screw 12 adapted to force the clamping-members or jaws toward each other, thereby to firmly clamp the leaves between them. Each of the clamping-members has a horizontal flange 13 adapted to project over the rear marginal portions of the leaves of the book, and a vertical flange 14 located in the rear of the binding-posts A⁴. The vertical flange 14 of the upper clamping-member is provided with a vertical slot 15; and the vertical flange 14 of the lower clamping-member is provided with an upwardly-extending stem 16 which is bent rearwardly to afford a flange 17 which extends through the slot 15 and is threaded to receive the screw 12. The lower end of the screw 12 rests upon a rearwardly turned flange 18 with which the upper clamping-member 11 is provided at its lower portion. At the outer vertical edge of the flange 14 of the upper clamping-member is provided a rearwardly-turned flange 19 which serves to prevent access to the screw 12, after the binder has been filled.

For binders of ordinary size adapted to this class of work, it will be found sufficient to provide a clamping-device for each outside or end binding-post. For binders of larger size, it may be desirable to apply

clamping-devices at the intermediate binding-posts. It is obvious that any desired number may be used. Preferably the clamping devices, however many may be used, are located at the binding-posts, and the horizontal flanges of the clamping-members are provided with perforations which receive the posts.

The manner of using my improved binder will be readily understood by those skilled in the art. A county recorder, for instance, may make typewritten records in the course of his daily duties, and keep them temporarily in a current binder. After the current binder has been filled, the record-sheets may be taken therefrom, and inserted in a binder constructed in accordance with my invention. In such case, the binder-posts would be preparatorily connected with the binder at one end of the posts, the pintle-sections being removed at the other side of the binder; the record-sheets would be inserted and brought into proper engagement with the posts; the upper clamping-members (supposed to have been preparatorily removed from the posts) would then be applied to the posts, and the compressing screws would then be inserted and employed to draw the clamping-members together and compress the record-sheets, and the removed pintle-sections would then be forced into place. After the binder has thus been filled, it will be observed it is impossible to gain access to the clamping-screws 12, and it is thus impossible to relieve the pressure upon the record-sheets sufficiently to enable any to be withdrawn, even where slitted record-sheets are employed; that is, record-sheets having slits extending from their rear edges to the post-receiving perforations. My improved construction, therefore, renders it perfectly feasible to employ slitted record-sheets, with the attendant advantages incident thereto.

For clearness of understanding, I have described the preferred form of my invention in detail, but no undue limitation is to be understood therefrom.

The internal clamping-devices with screw-connections for forcibly compressing the record sheets may be variously modified without departure from my invention.

What I regard as new, and desire to secure by Letters Patent, is—

1. The combination of a binder-back, posts having ends detachably connected with said back, and a clamping-device located within said back and comprising upper and lower

clamping-members having flanges adapted to engage and compress the book contents and having flanges at right angles thereto lying adjacent the rear edges of the sheets and equipped with a clamping-screw, for the purpose set forth.

2. In a binder, the combination of a back equipped with a pintle-receiving barrel provided with recesses, binding-posts having perforate ends received in said recesses, clamping-members having perforations receiving said binding-posts, and a clamping-screw connecting said clamping-devices in the rear of the plane of said binding-posts.

3. In a binder, the combination with a cover comprising cover-sections and a back and pintle-receiving barrels carried thereby, of binding-posts having perforations through their ends, pintles extending into said barrels and through the perforations in the ends of said posts, and a clamping-device located within said back and comprising screw-connected clamping-members, one of said clamping-members having a flange provided with a perforation receiving one of said binding-posts.

4. The combination with a loose-leaf binder equipped with binding-posts, of a clamping-device adapted for insertion between the back of the binder and the rear edges of the loose leaves, comprising upper and lower clamping members having flanges adapted to compress the rear margins of the leaves between them and having flanges at right angles to said first-named flanges adapted to lie adjacent to the rear edges of the loose leaves, lugs carried by said second-named flanges, and clamping-screws connected with said lugs.

5. The combination of a binder-back, binding-posts having ends detachably connected therewith, and clamping-devices contained within said back, each clamping-device comprising a pair of clamping-jaws and a connecting screw, and a flange on one of said clamping-jaws adapted to prevent access to said screw.

6. The combination with a binder-back, of binding-posts having ends detachably connected therewith, clamping devices contained within said back, and means for preventing access to the operative portions of said clamping-devices.

HARRY S. JONES.

In presence of—

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