

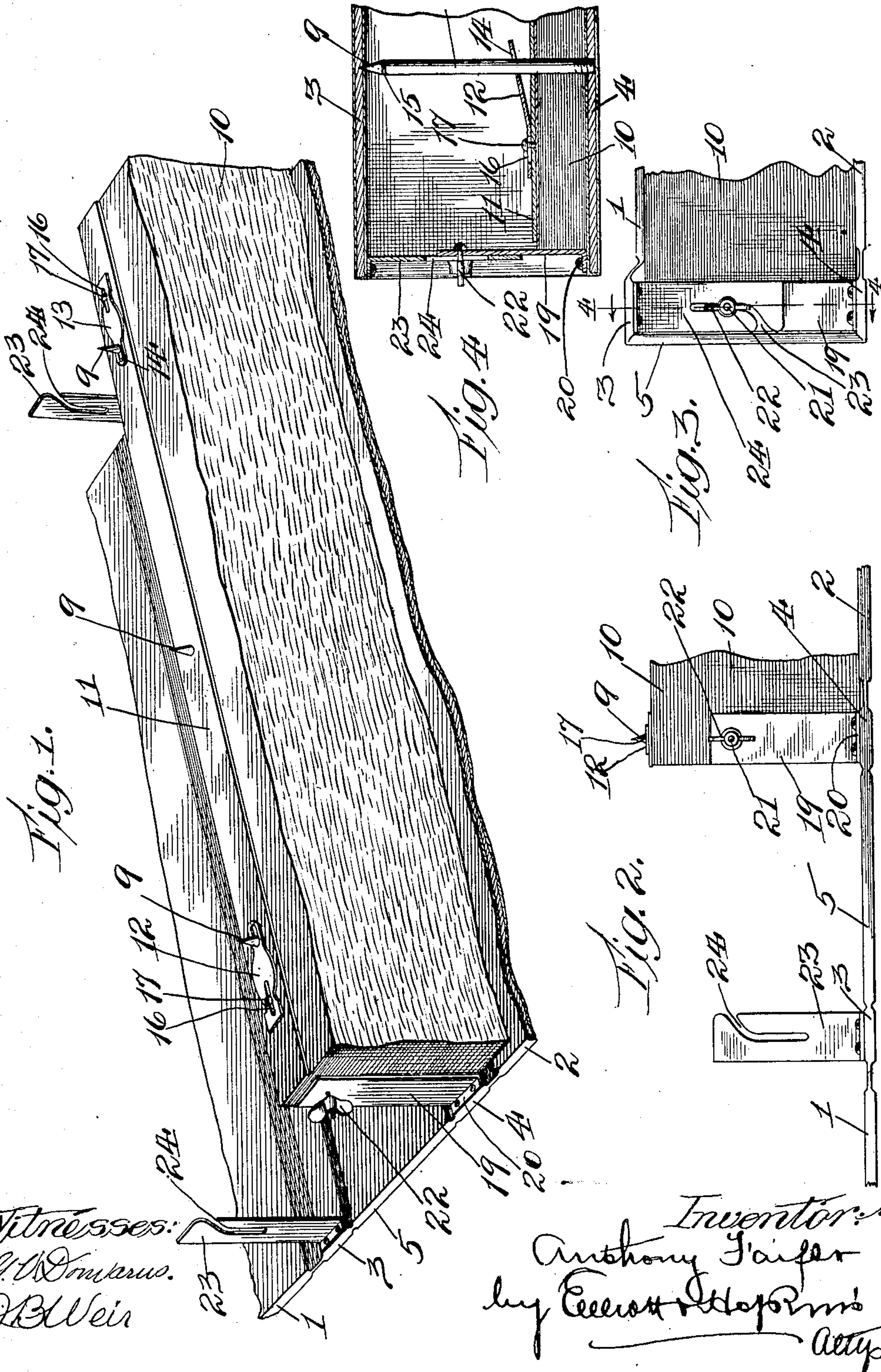
A. FAIFER.
BINDER.

APPLICATION FILED OCT. 27, 1904.

Patented June 22, 1909.

2 SHEETS—SHEET 1.

925,886.



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2 SHEETS—SHEET 2.

Fig. 5. A perspective view of a rectangular frame assembly. It features a central panel (1) flanked by side rails (2, 3). The assembly is supported by a base (4) and a top rail (5). Various components are labeled with reference numerals: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

UNITED STATES PATENT OFFICE.

ANTHONY FAIFER, OF SPRINGFIELD, ILLINOIS, ASSIGNOR TO M. M. CHESROWN, OF CHICAGO, ILLINOIS.

BINDER.

No. 925,886.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ANTHONY FAIFER, a citizen of the United States, residing at Springfield, in the county of Sangamon and State of Illinois, have invented certain new and useful Improvements in Binders, of which the following is a full, clear, and exact specification.

My invention relates more particularly to that class of binders commonly known as binding files in which the documents are filed on impaling pins between backs or covers which are then clasped over the ends of the pins and constitute a binding in the form of a book, and my invention has for its primary object to provide an improved, simple and efficient binding file of this character in which the documents will be compressed or held in a book form temporarily during the time that the file is being filled, and securely and permanently bound and locked after it is full.

With a view to the attainment of the described ends and the accomplishment of certain other objects which will hereinafter appear, the invention consists in the features of novelty hereinafter described with reference to the accompanying drawings and more particularly pointed out in the claims.

In the said drawings—Figure 1 is a perspective view of my improved binding file showing the same filled but with the covers open and partially broken away. Fig. 2 is an end elevation thereof. Fig. 3 is an end elevation showing the covers closed. Fig. 4 is a transverse section on the line 4—4 Fig. 3, but showing the binder only partially filled. Fig. 5 is a plan view of the device as shown in Fig. 1. Fig. 5^a is a detail of one of the dogs, and Fig. 6 is a vertical section taken on the line 6—6 Fig. 5.

1, 2 are the top and bottom covers which are provided respectively with hinged sections 3, 4, as usual in binders of this character, and which sections connect the covers to the back member or part 5. In the section 4 of the bottom cover, which section if desired may be formed of a strip of metal, is secured any desired number of impaling pins 6, 7, 8, three being shown, one near each end of the strip 4 and one at or about the midlength of said strip, but the number, of course, are dependent upon the width of the documents to be filed. These impaling pins

are preferably provided with impaling points 9 so that the documents or papers 10 may be filed thereon directly without previous punching and after the filing operation is completed the papers or documents are compressed or held in a compact form temporarily until the file is full, in the manner shown in Fig. 4, by a compressor bar 11, which also serves as a cover for the papers. This bar or cover is perforated for the passage of the pins and which is provided with a suitable number of dogs or tension fingers 12, 13, two being shown, arranged to grip two of the pins and thus hold the compressor from slipping upwardly thereon. These gripping dogs or tension fingers 12, 13 are each formed with an eye 14 through which the pin passes and which eye on one side is V shaped or otherwise formed so as to produce the maximum amount of friction against the pins and cause the latter to be gripped thereby; and during the temporary use of the follower or compressor bar 11 the dogs stand in an inclined position as shown in Fig. 4 so that the upward tendency of the bar 11 will produce a substantially direct end thrust of the notch of the dog against the pin, the lower end of the dog being rigidly secured to bar 11. Hence in order to lift the bar 11 it is necessary to place one finger of each hand beneath the loop or eye 14 and pull upwardly or otherwise lift the dogs out of engagement with the pins. When the file is full, however, as shown in Figs. 1, 2, 3, 5 and 6, these dogs 12, 13 are utilized as a means of permanently locking the compressor bar 11 to the pins so that by no possibility may the documents become dislodged. With that end in view the pins are provided as close to their upper ends as feasible with notches or sawcuts 15 and the connection between each of the dogs and the bar 11 is made adjustable or yielding in any suitable way as by providing the dog with a slot 16 and the bar with a screw 17 passing through said slot and thereby rigidly securing the dog in place but with capability of being pushed away from the pin when sufficient end pressure is brought to bear against the dog or when the screw is loosened. Ordinarily the screw would be loosened and the bar 11 pushed upwardly until the notched end of the dog engages in the sawcut 15 whereupon, by continuing the upward move-

ment of the bar, it may be caused to lie flat against the under side of the dog, the dog being made of spring metal to permit of this flexure, after which, by again tightening the screw 17, the parts may be locked in this position with the compressor 11 at the extreme upper end of its movement, flat against the under sides of the dogs, and the dogs held against further upward movement by the notch or sawcut 15 in each pin. The top cover 1, 3 may then be closed or folded over the ends of the pins and secured in place by a suitable clasp which I will presently describe, and in order that the pins may be provided with a still further safeguard their ends are let into suitable recesses or indentations 18 in the under side of the section 3 when the latter is in place above them.

The sections 3, 4 may be firmly secured against relative movement or movement relatively to the pins when in place by any suitable clasp, one of which is arranged at each end of the back 5 and preferably consists of a plate 19 having a flanged end 20 secured to the strip or section 4, and also having at its upper end a screw 21 rigidly secured thereto and provided with a thumb nut 22, while the other strip or section 3 is provided with a plate 23 similarly secured to said section 3 and having a hook shaped notch 24 in one end and edge adapted to engage over the screw 21 between the nut 22 and the plate 19 when the covers are folded together in the manner shown in Fig. 3, whereupon by tightening the nut 22 the plates 19, 23 are rigidly held against relative movement and the sections 3, 4 are firmly secured in place relatively to the pins.

Having thus described my invention what I claim as new therein and desire to secure by Letters Patent, is;

1. In a device for the purpose described, the combination with a cover, of notched impaling pins secured therein, a compressor through which the pins pass, and bodily adjustable grips on said compressor arranged at an angle to the face thereof and engag-

ing said pins, said grips being adapted to be secured in the notches.

2. In a device for the purpose described, the combination with a cover, of impaling pins, one of which is notched, secured to the cover, a compressor through which said pins pass, a bodily adjustable spring grip on said compressor arranged at an angle to the face of the compressor and engaging the notched one of said pins, and means for holding said grip in its adjusted position and in engagement with the notch in said pin.

3. In a device for the purpose described, the combination with a cover, of impaling pins secured therein and one of which pins is notched, a compressor through which said pins pass, and a flexible bodily movable spring grip on said compressor projecting beyond the face of the compressor and engaging said notched pin, said grip being adapted to engage in and secured by the notch thereof.

4. In a device for the purpose described the combination with a cover, of impaling pins secured therein and one of which pins is notched, a compressor through which said pins pass, a bodily adjustable spring grip carried by said compressor arranged at an angle to the face thereof and encircling the notched one of said pins, and means for removably securing said grip in the said notch for locking the compressor against withdrawal.

5. In a device for the purpose described the combination with a cover, of impaling pins secured therein and one of which is notched, a compressor through which said pins pass, a flexible spring grip arranged at an angle to the face of said compressor and engaging the notched one of said pins and having a slotted end, and a set screw passing through said slotted end and binding the same to the said compressor.

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