

(No Model.)

H. GROSS.

FRAME WORK FOR SAFETY DEPOSIT AND SIMILAR BOXES.

No. 361,408.

Patented Apr. 19, 1887.

Fig. 1.

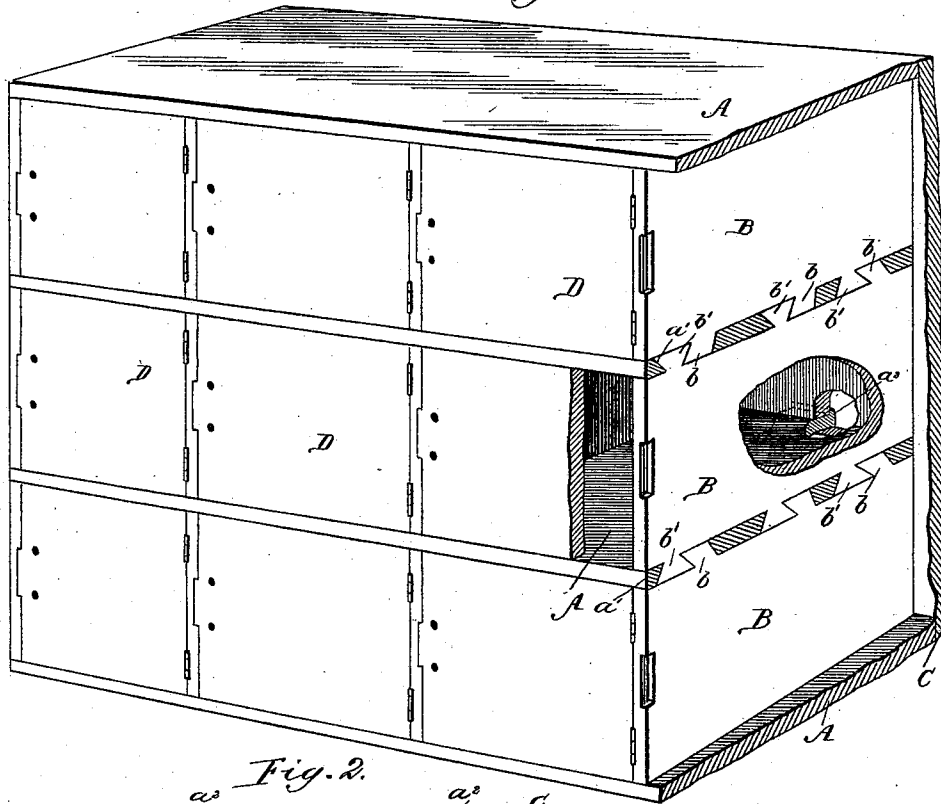


Fig. 2.

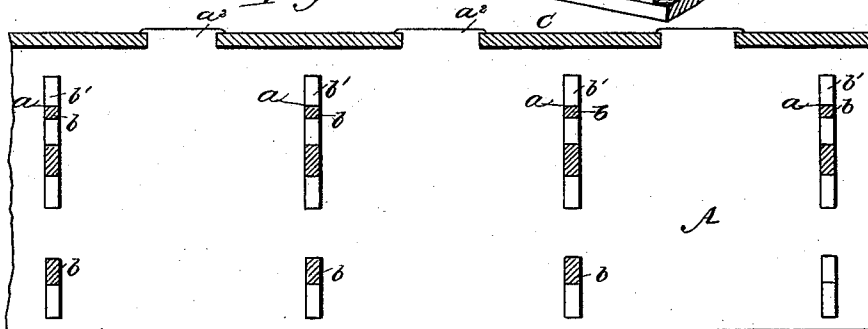
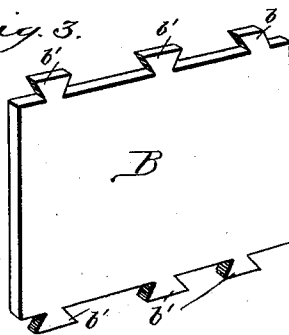


Fig. 3.



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HENRY GROSS, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE CHICAGO SAFE AND LOCK COMPANY, OF SAME PLACE.

FRAME-WORK FOR SAFETY DEPOSIT AND SIMILAR BOXES.

SPECIFICATION forming part of Letters Patent No. 361,408, dated April 19, 1887.

Application filed April 19, 1886. Renewed March 7, 1887. Serial No. 230,037. (No model.)

To all whom it may concern:

Be it known that I, HENRY GROSS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have
5 invented certain new and useful Improvements in the Construction of Frame-Work for Safety Deposit and Similar Boxes, of which I do declare the following to be a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

In the construction of safety deposit-boxes it has been heretofore proposed to form the frame-work of two series of plates, one series
15 running in horizontal direction and the other running in vertical direction, the plates of each series being provided at their points of intersection with slots extending to about midway the plates, so that when the plates were fitted
20 together their front edges would be in the same vertical plane. It is manifest that in such construction the rear portion of the horizontal plates and the front portion of the partition-plates between their slots will be left
25 without support, and as the boxes are usually of considerable depth, it is possible, by bending the rear portion of the upper or lower plates or the front portion of the partition-plates of one box, to enter the adjacent boxes.
30 Moreover, in such construction the slotting of the horizontal and partition plates left the outer edges of such plates without sufficient rigidity to afford a firm bearing for the doors.

My present invention has for its object to
35 avoid these objections, and to provide a construction of frame-work by which each box will be rendered secure against entrance from the adjacent boxes, and by which, at the same time, the vertical and horizontal plates constituting the sides of the boxes shall be held
40 together in such manner as to afford a firm support for the doors. This object I have accomplished by the construction of frame-work, hereinafter described, illustrated in the accompanying drawings, and particularly defined in
45 the claims at the end of this specification.

Figure 1 is a perspective view, parts being broken away for the purpose of better illustration. Fig. 2 is a view in horizontal section.
50 Fig. 3 is a detail perspective view of one of the partition-plates.

A designates the main horizontal plates of the frame-work, and B denotes the partition-plates, which serve to divide the main plates at suitable distances to form the boxes of
55 proper size. In the plates A are formed the holes or mortises *a*, the number and distance apart of these mortises being dependent upon the depth of the boxes. The mortises *a* are preferably dovetailed or inclined, as at *a'*, and
60 are of sufficient size to receive the tenons *b* and *b'* of the partition-plates B, above and below each main plate. The tenons of the plates B are preferably of dovetailed construction, as shown, the tenons of one partition-plate interlocking with the tenons of the plate above and below it, and the lower tenons, *b*, inclining in
65 one direction only, while the tenons *b'* are of double dovetail construction. The horizontal plates A are provided with lugs or projections *a'*, adapted to pass through suitable holes in the stop or guard plate C, which constitutes the back of the frame-work, the end of these
70 projections *a'* being riveted down, so as to securely hold the plates in position. In this construction it will be seen that when the tenons of the partition-plates have been inserted into the mortises of the main plates, and the stop or guard plate C has been fixed in position, it will be impossible to separate the partition-
80 plates from the main plates, for the reason that the rear edges of both sets of plates abut against the stop or guard plate C, which prevents their backward movement, and obviously the dovetailed tenons cannot be separated nor with-
85 drawn from their mortises so long as the stop or guard plate is in position.

It will be seen that by connecting the main and partition plates of the frame-work by tenon-and-mortise joints the slotting of such plates
90 to any considerable extent is unnecessary, and consequently a firm support for the door is obtained, and the danger of the entrance of one box from the adjacent boxes is avoided. Moreover, by forming the tenons and mortises of
95 dovetailed or other suitable construction which will permit them to interlock, the main and partition plates will be firmly held together, so as to give to the frame-work much of the same rigidity as if partition-plates were formed in
100 single pieces.

The front of the frame-work will be provided

with individual doors D, of any suitable construction.

It will be readily seen that my invention is applicable not merely to the construction of
5 safety deposit-boxes, but as well also to the construction of the frame-work of post-office boxes and similar receptacles, it being understood that in such work instead of employing a solid stop or guard plate, C, suitable guard
10 strips or stops at the back of the frame-work will be used.

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

- 15 1. A frame-work for safety deposit and like boxes, having its main horizontal partition-plates and its vertical partition-plates connected at their points of intersection by tenon-and-mortise joints, substantially as described.
- 20 2. A frame-work for safety deposit and like boxes, having its main horizontal partition-plates and its vertical partition-plates connected at their points of intersection by dovetail or interlocking tenon-and-mortise joints,
25 substantially as described.

3. A frame-work for safety deposit and like boxes, having its main horizontal partition-plates and its vertical partition-plates connected at their points of intersection by dovetail tenon-and-mortise joints, and having a
30 guard plate or stop to prevent the separation of the plates, substantially as described.

4. In frame-work for safety deposit and like boxes, the combination of the main horizontal partition-plates A, having mortises *a* therein, 35 of the vertical partition-plates B, having the dovetail tenons *b* and *b'*, fitted in the same mortises, substantially as described.

5. In frame-work for safety deposit and like boxes, the combination of the main horizontal 40 partition-plates A, having dovetail mortises *a* therein, and the vertical partition-plates B, having the dovetail tenons *b* and *b'*, and the guard plate or stop C, substantially as described.

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Witnesses:

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