Jan. 15, 1924. 1,480,945

W. P. MOSELEY

SAFE DEPOSIT DOOR CONSTRUCTION

Filed July 9, 1923

Fig. 1.

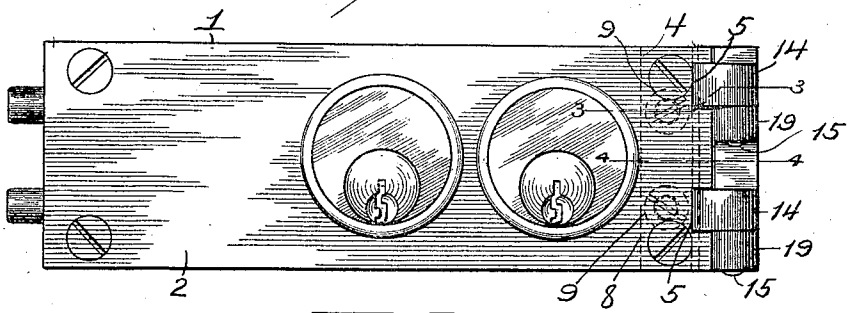


Fig. 2.

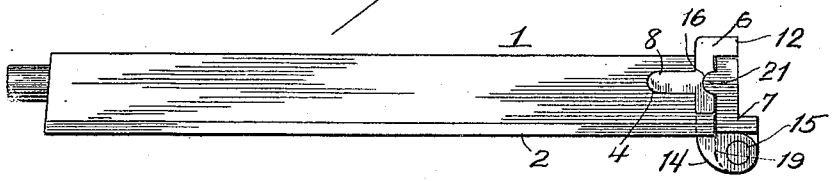


Fig. 3.

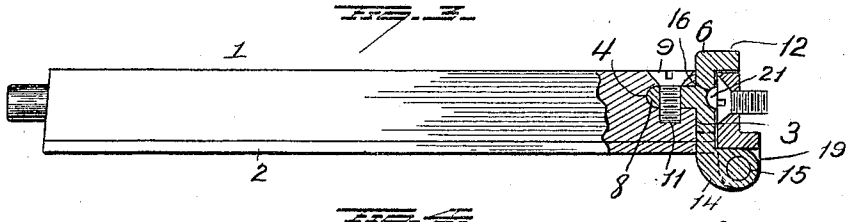


Fig. 4.

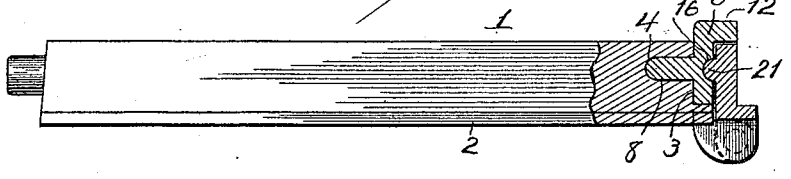


Fig. 5.

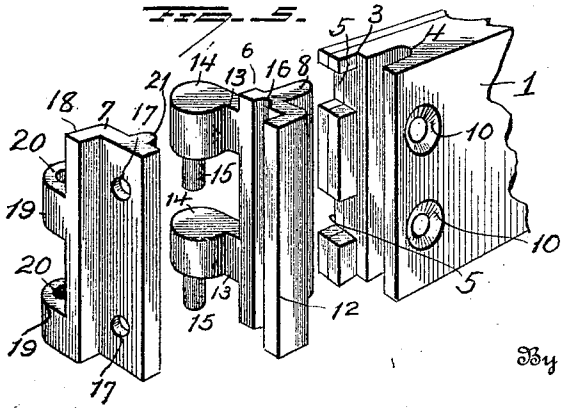
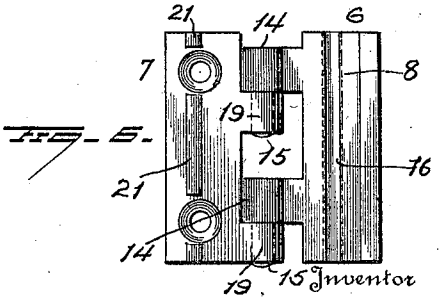


Fig. 6.



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Patented Jan. 15, 1924. 1,480,945

UNITED STATES PATENT OFFICE.

WILLIAM P. MOSELEY, OF STAMFORD, CONNECTICUT, ASSIGNOR TO THE YALE & TOWNE MANUFACTURING COMPANY, OF STAMFORD, CONNECTICUT.

SAFE-DEPOSIT-DOOR CONSTRUCTION.

Application filed July 9, 1923. Serial No. 650,377.

To all whom it may concern:

Be it known that I, WILLIAM P. MOSELEY, a citizen of the United States, and resident of Stamford, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Safe-Deposit-Door Constructions; 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 relates to improvements in safe deposit door constructions and more particularly to an improved hinge structure therefor,—one object of my present invention being to provide a hinge structure for safe deposit box doors which shall be compact and rigid when the door is closed; which shall be so applied to the door as to leave nearly the entire inner face of the latter available for the application of a lock case, and in which the door-leaf of the hinge shall have mortise connection with the end portion of the door and so that the jamb-leaf shall have mortise connection with the door-leaf.

With this and other objects in view, the invention consists in certain novel features of construction as hereinafter set forth and pointed out in the claims.

In the accompanying drawings,—

Figure 1 is a face view showing a safe deposit box door and illustrating the application of my improvements thereto.

Figure 2 is an edge view.

Figure 3 is a view partly in section on the line 3—3 of Figure 1.

Figure 4 is a view partly in section on line 4—4 of Figure 1.

Figure 5 is an enlarged perspective view showing the hinge members and a portion of the door, separated, and

Figure 6 is a face view of the assembled hinge, in open position.

In the drawings, I have shown a door 1 for a safe deposit box and said door may consist of a block of suitable metal and it may be provided, if desired, with a face plate 2 of a different metal. One end of the block constituting the door 1 is countersunk as at 3 and made with a comparatively deep transverse groove 4 and the said end portion of the door is also made with notches 5—5, all for a purpose hereinafter explained.

My improved hinge comprises a door-leaf 6 and a jamb-leaf 7. The door-leaf 6 is seated in the countersink 3 and it is provided with an elongated tongue 8 which enters the groove 4 in the end of the door and thus said leaf 6 has a mortise connection with the door. Possibility of displacement of the leaf 6 relatively to the door will be prevented by means of screws 9 passing through holes 10 in the door and through the tongue 8,—the ends of said screws entering threaded sockets 11 in the door. The leaf 6 is provided at one edge with a flange 12 and at its other edge with lugs 13 seated in the notches 5 in the door and terminating in ears 14 which carry depending pintles 15. Between the side edges of the leaf 6, a groove 16 is formed and this groove may be parallel with the tongue 8.

The leaf 7 is perforated as at 17 for the accommodation of suitable fastening devices for securing said leaf to a door-jamb. At one edge, the jamb-leaf 7 is provided with a flange 18 which may be engaged by an edge portion of the door-jamb and from this flange, spaced ears 19 project and are provided with openings 20 for the reception of the pintles 15 of the door leaf 6. The jamb-leaf 7 is provided with a longitudinal rib 21 (through which the holes or openings 17 pass) and this rib enters the groove 16 in the door leaf 6 when the hinge is closed and thus the jamb-leaf 7 has a mortise connection with the door-leaf 6.

It will be observed that with my improved construction, the door-leaf of the hinge is mortised into the door itself and that the jamb-leaf of the hinge is mortised into the door-leaf, thus giving a rigid compact construction and at the same time leaving nearly the entire inner surface of the door free for the application of a lock case.

Having fully described my invention what I claim as new and desire to secure by Letters-Patent, is:

1. The combination with a door, of a hinge therefor, comprising a door-leaf having mortise connection with the door, and a jamb-leaf having hinge connection with

the door-leaf and also having mortise connection with the door-leaf when the door is in closed position.

2. The combination with a door having a groove in one end thereof, of a hinge comprising a door-leaf having a tongue entering said groove and also having a groove and a jamb-leaf having hinge connection with the door-leaf and provided with a rib to enter the groove in the door-leaf when the door is in closed position.

3. The combination with a door having a groove in one end and having lateral notches, of a hinge structure comprising a door-leaf having a tongue to enter said groove and provided with ears having parts disposed in said lateral notches, said ears provided with pintles, said door-leaf having a flange at its edge opposite said ears and also having an intermediate groove and a jamb-leaf having a rib to enter said groove in the door-leaf and provided at one edge with a flange having perforated ears to receive the pintles of the door-leaf.

4. In a structure of the character described, the combination of a door-leaf having a tongue to enter the door and having a groove parallel with said tongue, said door-leaf provided with ears carrying pintles, and a jamb-leaf provided with perforated ears to receive said pintles and with a rib to enter the groove in the door-leaf.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WILLIAM P. MOSELEY.

Witnesses:
JERE E. GATTHWAITE,
CHARLES A. BERRY.