

F. O. BUSCHBAUM.
METAL BOX.
APPLICATION FILED NOV. 11, 1908.

933,229.

Patented Sept. 7, 1909.

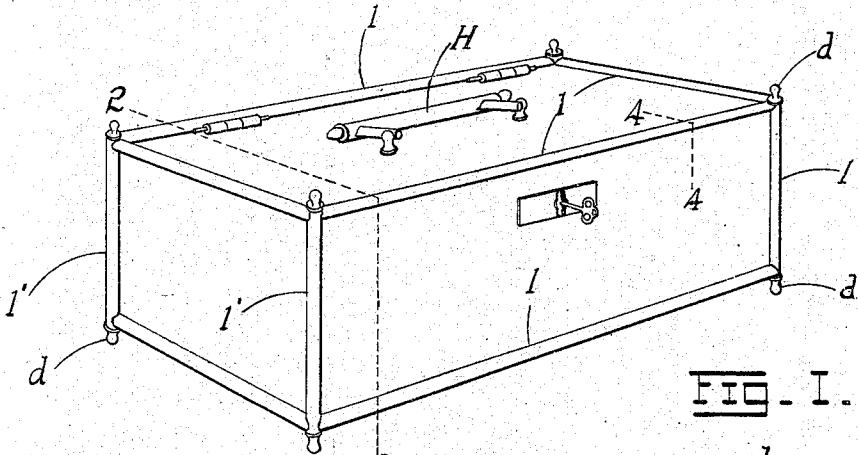


FIG. 1.

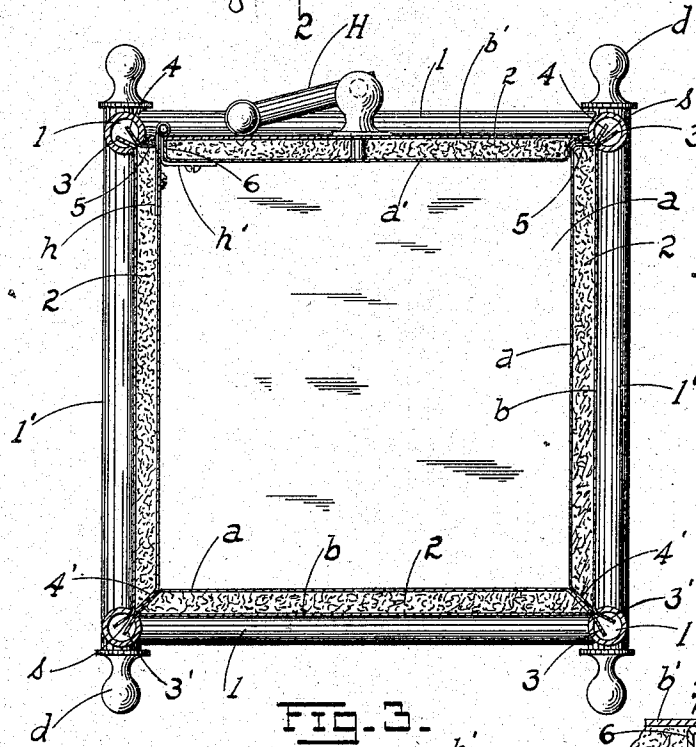


FIG. 2.

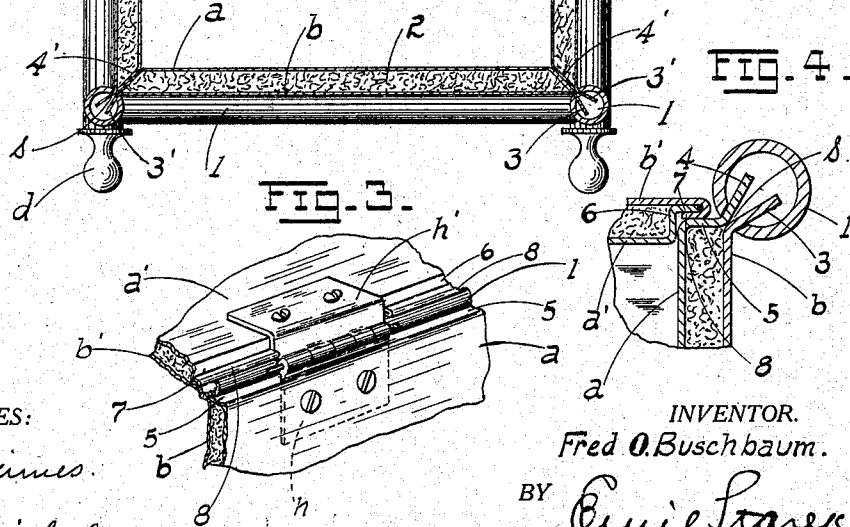


FIG. 4.

WITNESSES:
Harry A. Reimes.
Joseph Michel.

INVENTOR.
Fred O. Buschbaum.
BY *Emil Frank*
ATTORNEY.

UNITED STATES PATENT OFFICE.

FRED O. BUSCHBAUM, OF ST. LOUIS, MISSOURI.

METAL BOX.

933,229.

Specification of Letters Patent.

Patented Sept. 7, 1909.

Application filed November 11, 1908. Serial No. 462,117.

To all whom it may concern:

Be it known that I, FRED O. BUSCHBAUM, citizen of the United States, residing at St. Louis, State of Missouri, have invented certain new and useful Improvements in Metal Boxes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention has relation to improvements in metallic boxes; and it consists in the novel construction of box more fully set forth in the specification and pointed out in the claims.

In the drawings, Figure 1 is a perspective view of the preferred form of my box; Fig. 2 is a vertical cross-section on the line 2—2 of Fig. 1; Fig. 3 is a perspective detail with lid swung open showing manner of securing the hinge in position; and Fig. 4 is a sectional detail enlarged showing manner of folding the sheets of the lid and walls adjacent thereto.

The object of my invention is to construct a metallic box for the storing of valuables which shall be strong, durable and fire-proof; one which can be put together without the use of rivets, screws, or similar securing devices; one whose parts can be readily assembled in the course of construction, and one possessing further and other advantages better apparent from a detailed description of the invention which is as follows:—

Referring to the drawings, 1, 1', represent respectively series of horizontal and vertical metallic tubes forming protecting corner members for the meeting edges of the bounding walls of the box, the said walls comprising each an inner metallic sheet *a* and an outer metallic sheet *b* spaced a suitable distance apart, which space is occupied by a filling of asbestos, cement, mineral wool, or any equivalent heat non-conductor 2, as well understood in the art. The several tubes are split longitudinally, the slit *s* thus formed in each of the top series of tubes 1, receiving the marginal, outwardly deflected flange 3 of the outer sheet *b* of the adjacent vertical wall, which flange well enters the chamber of the tube 1, said slit likewise receiving the terminal flange 4 deflected from the outwardly bent marginal ledge or shoulder 5 formed on the upper edge of the inner sheet *a*. The ends of the upper and lower set of

tubes 1 are suitably cut or formed as to engage the peripheral surfaces of the vertical series of tubes 1' thereby making a neat finish at the corners of the box, the vertical series receiving at the top and bottom the plugs *d* which impart an ornamental finish to the box when completed, the lower plugs forming suitable legs for the box.

The ledge 5 of the inner vertical sheet *a* is cut away to receive the inner leaf *h* of the hinge, the opposite leaf *h'* being secured to the inner sheet *a'* of the hinged lid or cover, said sheet *a'* being spaced from the outer sheet *b'* a distance represented by the marginal offset or shoulder 6 formed on the sheet *a'*, said shoulder having bent therefrom the marginal flange 7 which is encompassed by the inwardly folded edge 8 formed on the outer sheet *b'* of the lid. When the lid is closed, the edge 8 rests upon the ledge 5 of the body of the box, the offset 6 passing into the box and engaging the inner sheets *a* beneath the ledge 5. The leaf *h'* of each hinge is suitably bent so as to pass around the offset or shoulder 6 of the cover. Like in the body of the box, the space between the inner and outer sheets of the lid is filled with heat non-conducting material 2. The leaf *h* is inserted between the sheet *a* to which it is directly secured and the filling.

Obviously the slits *s* only of the upper series of horizontal tubes 1 receive the marginal flanges 3 and 4 of the adjacent vertical walls of the box; but the bottom series of tubes (as well as the vertical series) receive merely the marginal flanges 3' of the outer sheets of two contiguous walls, the flanges 4' of the inner sheets being bent substantially along a diagonal plane so as to bear against one another and make a tight joint along the seam formed by the meeting edges of the sheets (Fig 2). The necessity for the shoulders 5 arises from the fact that a special ledge must be improvised to support the lid, which in the present instance is a hinged one. The contacting flanges 4', 4', shown in section Fig. 2 at the meeting edges of the inside bottom sheet, and the bottoms of the inner vertical sheets, are the same as the flanges formed at the meeting edges of the several vertical sheets, so that a section at right angles to the vertical section shown in Fig. 2 is unnecessary, as the views would be identical.

The form of oblong box with rectangular

corners as here shown is the preferred one though any other convenient form would fall within the spirit of my invention.

H, represents a handle hinged to the lid or cover.

Having described my invention, what I claim is:—

1. A box having a series of vertical walls and a bottom, each composed of an inside sheet and an outside sheet spaced a suitable distance apart, a filling of heat non-conducting material in the space between the sheets, a longitudinally slit tube at the meeting edges of each two contiguous walls, outwardly deflected flanges formed on the outside sheets and entering the slits of said tubes, flanges formed at the ends and lower edges of the inner sheets of the vertical walls, and along the edges of the inner sheet of the bottom and bearing against one another on diagonal planes, flanges turned outwardly from the

upper margins of the inner sheets and passed through the slits of the upper series of tubes, and offsets between the sheets and said flanges forming collectively a ledge for the support of a suitable lid, and a lid adapted to rest on said ledge.

2. A box having a series of vertical walls and a bottom, each composed of an inside sheet and an outside sheet, said walls meeting at their edges, longitudinally slit tubes located at the vertical meeting edges of the walls and inclosing the edges of the outer sheets, and plugs inserted into the lower ends of the tubes and forming legs for the box.

In testimony whereof I affix my signature, in presence of two witnesses.

FRED O. BUSCHBAUM.

Witnesses:

EMIL STAREK,
JOS. A. MICHEL.