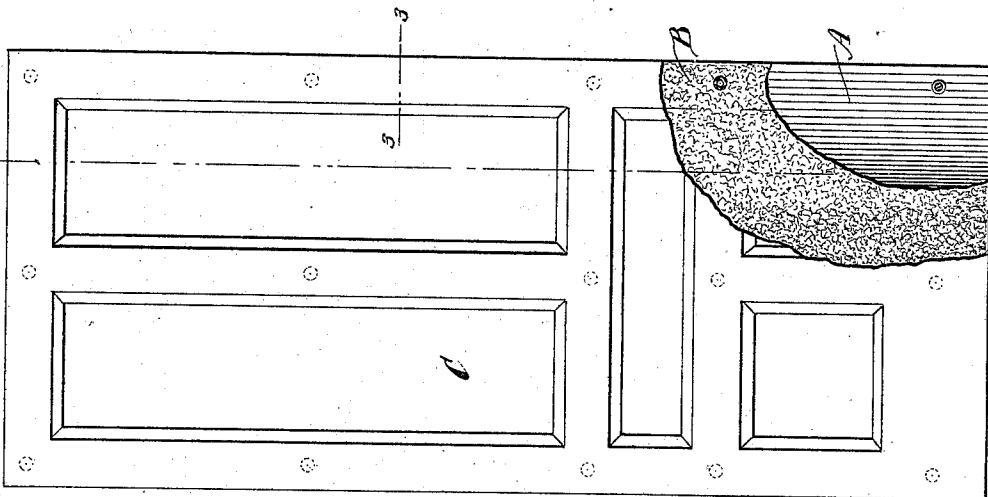
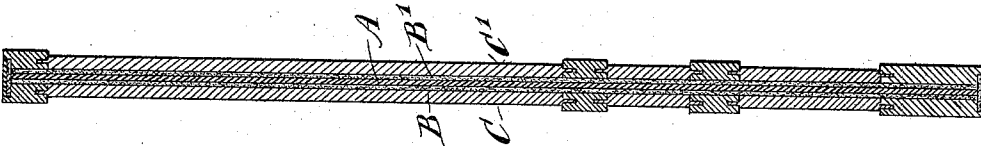
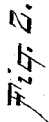
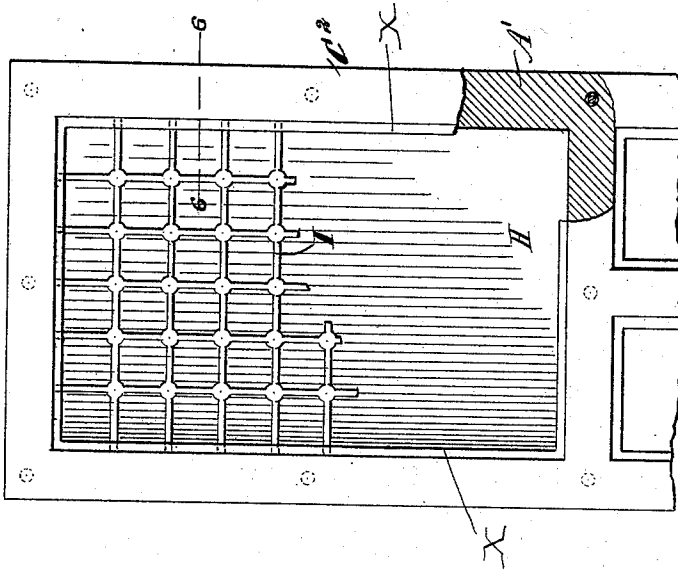


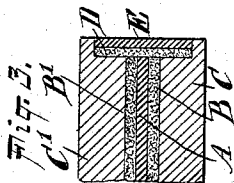
G. FOX, II.
FIREPROOF DOOR.

Patented Oct. 27, 1896.



WITNESSES:
William P. Goebel.

Rev. Hostetler



G Fox II

7/11/12

ATTORNEYS.

UNITED STATES PATENT OFFICE.

GEORGE FOX, II, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO
GARRET S. WRIGHT, OF SAME PLACE.

FIREPROOF DOOR.

SPECIFICATION forming part of Letters Patent No. 570,391, dated October 27, 1896.

Application filed March 31, 1896. Serial No. 585,560. (No model.)

To all whom it may concern:

Be it known that I, GEORGE FOX, II, of New York city, in the county and State of New York, have invented a new and Improved Fireproof Door, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved fireproof door which is simple and durable in construction, cheap to manufacture, and having the appearance of an ordinary door.

The invention consists of certain parts and details and combinations of the same, as will be fully described hereinafter, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a face view of the improvement with parts broken out. Fig. 2 is a transverse section of the same on the line 2 2 of Fig. 1. Fig. 3 is an enlarged sectional plan view of part of the improvement on the line 3 3 of Fig. 1. Fig. 4 is an enlarged sectional side elevation of the improvement, showing the fastening device for the center piece, layers, and wooden facing. Fig. 5 is a face view of a door provided with my improvement and showing transparent panels, and Fig. 6 is a detail section on the line 6 6 of Fig. 5.

The improved fireproof door is provided with a center piece A, made of sheet metal and covered on its faces by layers B B' of a fireproof material, such as asbestos, the layers being covered by wooden facings C C', representing panels or the like, the same as on an ordinary door. In the edges of the door are formed rabbets, as indicated in Fig. 3, for receiving a layer of fireproof material D, and a metallic covering-strip E, both fastened in place in the wood facing by nails, screws, or other means.

In order to hold the sheets, layers, and facings together, I provide bolts F, (shown in detail in Fig. 4,) each bolt extending transversely through the center piece A and layers B B' to then receive nuts F' F', which screw up against the faces of the layers B B' to securely fasten the layers to the center

piece. The projecting ends of the bolt F then extend through the wooden facings C C' to receive on their extreme outer ends nuts F' F', countersunk in the wooden facings and screwing up on the same to fasten the facings upon the fireproof layers. Putty G or other suitable material covers up the openings in the facings C C' over the nuts F' F', so that when the door is varnished, painted, or otherwise treated none of the bolts are visible and the door has the appearance of the ordinary wooden door now in use.

Now it will be seen that by the arrangement described a fire on either side of a door can burn off one face thereof without destroying or disturbing the position of the parts on the other side of the door, as the bolts securely hold the various parts together even if the woodwork on one side of the door should be burned off.

It will further be seen that by the arrangement described the door can be very cheaply constructed, is not liable to warp, and as it has the appearance of an ordinary wooden door it may be readily employed in dwellings and other buildings.

If it is desired to provide a door with light-admitting panels, I form the center piece A' with an opening for the reception of a sheet H, of mica or other translucent or transparent and comparatively fireproof material. (See Fig. 5.) The sheet H is covered on its faces by an open frame I, preferably made of metal and extending under the beads X, forming part of the woodwork-facings C', as shown in Fig. 6 and in dotted lines in Fig. 5, said frame giving sufficient strength to the sheet H for holding the latter in position. The rest of the door is constructed in the same manner as above described in reference to Figs. 1 90 and 2.

If desired, all or part of the woodwork may be left off on one side. This is sometimes desirable in case the door is near a steam-pipe or the like.

It is understood that the device can be readily used in connection with partitions, casings, floors, &c., and hence I do not limit myself to the special construction described, as the same refers only to doors.

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

1. A fireproof door and the like, comprising
5 a sheet-metal center piece, layers of fireproof material covering the sides of said center piece, a wooden facing for covering each layer of fireproof material, a layer of fireproof material passed around the edge of the door,
10 and a strip of sheet metal covering said layer, substantially as shown and described.

2. A fireproof door and the like, comprising a sheet-metal center piece, layers of fireproof material covering the sides of said center
15 piece, a wooden facing for covering each layer of fireproof material, and means for fastening the center piece and layers together and independent of the fastening for the facings, substantially as shown and described.

20 3. A fireproof door and the like, comprising a sheet-metal center piece, layers of fireproof

material covering the side of said center piece, a wooden facing for covering each layer of fireproof material, and bolts passing through the said center piece, layers and
25 facings, each bolt being provided with two inner nuts screwing up on the layers, and two outer nuts screwing up on the facings, substantially as shown and described.

4. A fireproof door and the like, comprising
30 a sheet-metal center piece, layers of fireproof material covering the sides of said center piece, a wooden facing for covering each layer of fireproof material, and a panel of translucent or transparent fireproof material set
35 in an opening in the center piece and covered on its faces by an open framework, substantially as shown and described.

GEORGE FOX, II.

Witnesses:

THEO. G. HOSTER,
JNO. M. RITTER.