No. 848,661. PATENTED APR. 2, 1907.

I. KOSTELANITZ.

DOOR.

APPLICATION FILED MAR. 15, 1906.

Fig. 1.

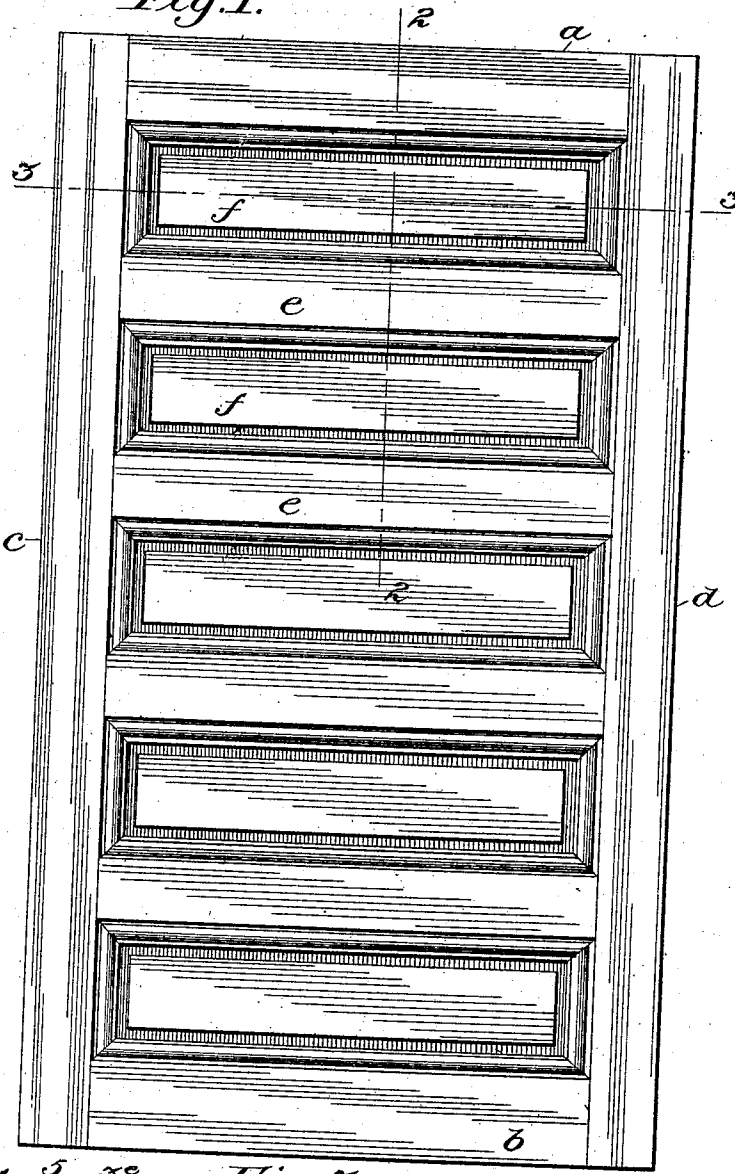


Fig. 2.

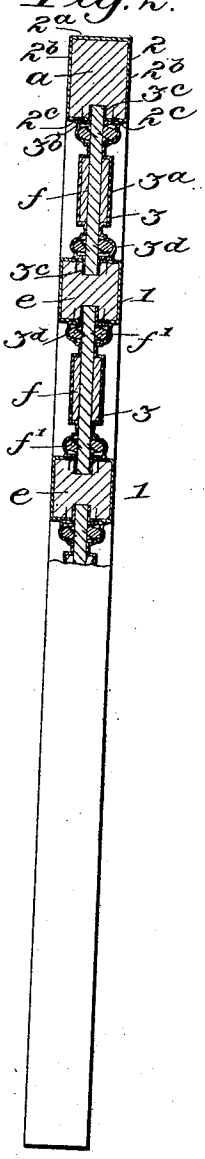
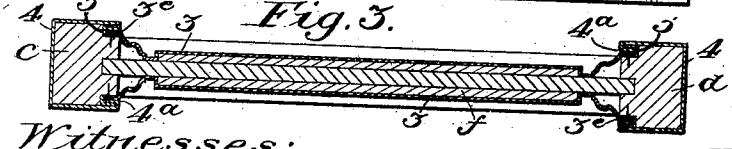


Fig. 3.



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UNITED STATES PATENT OFFICE.

ISRAEL KOSTELANITZ, OF BROOKLYN, NEW YORK.

DOOR.

No. 848,661. Specification of Letters Patent. Patented April 2, 1907.

Application filed March 15, 1906. Serial No. 306,314.

To all whom it may concern:

Be it known that I, ISRAEL KOSTELANITZ, a subject of the Czar of Russia, residing at Brooklyn, New York, United States of America, have invented certain new and useful Improvements in Doors, of which the following is a specification.

My invention relates to doors sheathed with sheet metal; and its object is to provide a construction which is particularly neat and attractive in appearance, susceptible of being made at a minimum of cost, and highly satisfactory and durable in use.

To this end the invention includes the parts and combination and arrangement of component parts to be hereinafter described, and particularly pointed out in the claims.

In the illustrated exemplification of my invention, Figure 1 is a side elevation of the improved door. Fig. 2 is a cross-sectional view of the same on a line 2 2 of Fig. 1, and Fig. 3 is a sectional view on the line 3 3 of Fig. 1.

The invention includes, generally, a core constructed of wood or similar material, which is light, but usually not fireproof, and a sheet-metal sheathing therefor, which provides a fireproof inclosing casing.

The core is preferably constructed in a manner similar to the ordinary wooden door, and, as illustrated in the accompanying drawings, it includes end rails *a b*, side rails *c d*, intermediate connecting-rails *e*, and panels *f*. As is usual the side faces of the rail are in the same surface plane, while the faces of the panel are within or below said surface plane on each side of the door, respectively. The panels *f* are shown as rabbeted in the rails *a b e*, as is the usual construction in the ordinary wooden door.

The present invention aims particularly to provide flat exposed surfaces at the rails, and particularly neat or invisible joints between the sheathings of the transverse rails and the panel-sheathings, and it further aims to procure a neat joint between the latter sheathings and the sheathings for the rails *c d*.

The sheathing for each side of each panel *f* comprises a suitable plate 3, ornamented in simulation of the ordinary wooden panel by stamping or embossing, this plate comprising a body portion 3^a, straight marginal portions 3^b, disposed substantially at right angles to the body portion and designed to lie flat against the face of the adjacent rail or strip covering the same, and edge portions 3^c, extending at right angles to the portions 3^b and projecting into the groove in the contiguous transverse rail between the surface of the panel with which the plate is associated and the opposing wall of the grooves in said rail.

The sheathing 1 for the rails *e* are trough shape in cross-section, and their bottom portions are designed to lie flat against the outer face or surface of the rail with which the sheathing is associated, and the sides of the trough are designed to lie flat against the sides of said rail. Suitable securing means for each strip or sheathing 1 is provided near the inner edges of the same—as, for instance, screws or nails which pass through the strips near their inner edges and enter the rails to which the strips are secured.

The sheathing 2 for the end rails *a b* is substantially rectangular in cross-section, being formed by a strip which comprises an outer flat portion 2^a, lying flat against the outer surface of the rail with which it is associated, flat side portions 2^b, lying flat against the opposite sides of the rail, and edge portions 2^c, extending parallel with the portions 2^a, which are intended to lie flat against the inner sides of the rail. The strips or sheathing 2 are held in position by securing means similar to that employed for retaining the strips 1 in position.

As will be noted, the portions 3^b of the sheathings 3 overlie the edge portions of the contiguous sheathings 1 2, respectively, completely hiding from view the edges thereof and the securing-nails or the like therefor, and thus to all appearances the several sheathings or plates 3 are integral with the several sheathings or strips 1 2. To make this appearance more pronounced, each sheathing 3 is preferably provided with an ornamental bead 3^d, which is held to form by suitable core-strips *f'*, nailed to the core *f*. The strips *f'* also present surfaces or shoulders against which the corners of the plates 3 at the juncture of the part 3^d 3^c bear, and thus the parts 3^c are securely held within the grooves of the adjacent rails.

The side rails *c d* are incased by trough-shaped sheathing-strips 4 of the same general shape as the strips 1 and are provided at their edges with locking-flanges 4^a. The edges of the plates 3 adjacent the strips 4 are provided with flanges 3^e, which are nailed to the adjacent strips *c d*, respectively, with one leg of a U-shaped locking-strip 5 interposed between each flange 3^e and the side of the rail

to which the flange is secured. The panel-plates 3 are thus secured in place before the sheathing-strips 4 are placed in position and after being so secured the strips 4 are placed in position with their flanges 4^a interengaged with the free legs of the contiguous strip 5, and thereafter the joint thus formed is compressed to securely interlock said legs and interengaging flanges together. The strips 4 are thus securely fastened in position.

As will be appreciated, the structure of door disclosed is particularly neat in appearance, as there is no indication of a joint between the panel-sheathing 3 and the strips 1 2, nor is the means for securing these parts to the core visible, and the seams between the panel-sheathing 3 and the strips 4 are also particularly neat. The construction is also very effective in that the several sections constituting the complete door-sheathing are securely held in position.

It will be understood that in the foregoing specification and the accompanying drawings I have disclosed but a single exemplification of my invention, but that, as will appear from the appended claims, my invention contemplates additional embodiments and that many changes may be made without departing from the spirit and scope thereof.

What I claim is—

1. The combination with a core comprising end rails and a panel rabbeted in the end rails, of sheathings for the end rails, having portions extending along the inner surfaces of the rails, and sheathings for opposite sides of the panel, each consisting of a body portion, a marginal portion disposed substantially at right angles to the body portion and designed to lie flat against the last-named portions of the contiguous sheathing for the end rails, and edge portions projecting within the adjacent recess in the end rails, and core-strips secured to the panels and coacting with the panel-sheathings to prevent the withdrawal of said edge portions from said grooves or recesses, substantially as described.

2. The combination with a core comprising end rails, side rails and a panel, of sheathing-strips for the end rails and side rails, said strips for the side rails having flanges 4^a, panel-plates having opposite edges secured to opposite side rails and flanges 3^e associated with each of said edges of the panel-plates and trough-shaped strips secured to the side rails and receiving the flanges 3^e and 4^a, substantially as described.

3. The combination with a core comprising end rails, transverse rails, side rails and panels, of sheathing-strips for the end rails and transverse rails, sheathing-plates for the panels having their edges contiguous the side rails fastened thereto, and U-shaped strips associated with each side rail each having one of its legs secured to the side rail by the fastening means for the panel-plates and a trough-shaped sheathing for each side rail having locking-flanges engaging with the free legs of the contiguous U-shaped strips, substantially as described.

In testimony whereof I have hereunto signed my name, in the presence of two witnesses, at Brooklyn, State of New York, United States of America, this 6th day of March, 1906.

ISRAEL KOSTELANITZ.

Witnesses:

JULIUS G. KREINER,

PHANOR J. EDER.