

No. 653,400.

Patented July 10, 1900.

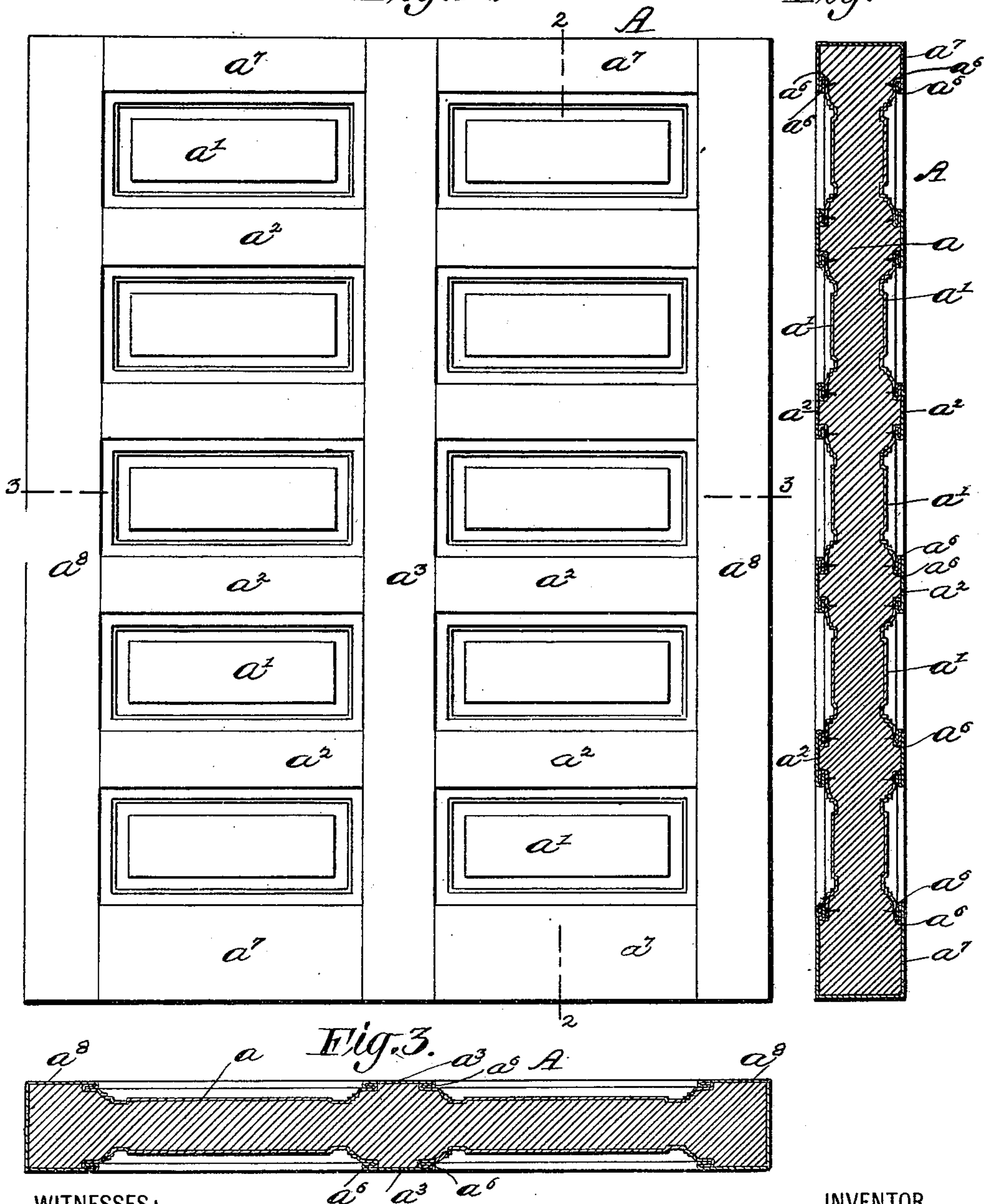
J. W. RAPP.
FIREPROOF DOOR.

(Application filed Dec. 18, 1899.)

(No Model.)

Fig. 1.

Fig. 2.



WITNESSES:

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FIREPROOF DOOR.

SPECIFICATION forming part of Letters Patent No. 653,400, dated July 10, 1900.

Application filed December 18, 1899. Serial No. 740,656. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. RAPP, a citizen of the United States, residing in the borough of Manhattan, city, county, and State of New York, have invented certain new and useful Improvements in Fireproof Doors, of which the following is a specification.

My invention relates to fireproof doors.

I will describe a fireproof door embodying my invention and then point out the novel features thereof in the claims.

In the accompanying drawings, Figure 1 is a front elevation of a fireproof door embodying my invention. Fig. 2 is a vertical sectional view of Fig. 1. Fig. 3 is a horizontal sectional view.

Similar letters of reference designate corresponding parts in all of the figures.

A represents a fireproof door comprising a core or filler a and a metallic covering which completely incloses the core or filler. In the present instance the metallic covering consists of a front and a back, each of which is made up of a number of panels and connecting-rails, both vertical and horizontal.

a' represents the panels, a^2 the horizontal connecting-rails, and a^3 the vertical connecting-rails. The panels a' are stamped into shape and each is provided with a peripheral or marginal lip a^6 , preferably of the form shown. This lip may be either continuous or interrupted. The rails a^2 a^3 are also provided with peripheral or marginal lips a^6 , which engage with the lips of the panels. The lips on the rails may be either continuous or interrupted, according to the lips on the flanges.

a^7 represents the top and bottom rails, and a^8 the stiles. The top and bottom rails are formed to fit over the top and bottom edges of the core or filler, and the stiles are formed to fit over the side edges of the core or filler. As shown, these parts have an outline in cross-section similar to a U. Each face of the top and bottom rails and the stiles is provided with a marginal lip a^6 . These lips may be either continuous or interrupted, and they engage with the adjacent lips a^6 of the panels and rails, as shown.

In making the fireproof door the panels a' are secured in position by blind-nailing them, and the connecting-rails are next secured in place by having their lips engage with the lips of the panels. The top and bottom rails and the stiles are applied to the core in the same manner. The seams formed by the engaging lips are preferably flattened by means of a mallet or other device. The joints formed by the connecting parts may be closed by welding. Any well-known electric apparatus may be used.

What I claim as my invention is—

1. The combination in a fireproof door, of a core or filler and a metallic covering therefor, said covering comprising front and back panels and connecting-rails, and top and bottom rails and stiles for fitting over the edges of the core or filler.

2. The combination in a fireproof door, of a core or filler and a metallic covering therefor, said covering comprising front and back panels, each having marginal lips, connecting-rails, having marginal lips which engage with the marginal lips of the panels, and top and bottom rails and stiles fitting over the edges of the core or filler and connected with adjacent panels and connecting-rails.

3. The combination in a fireproof door, of a core or filler and a metallic covering therefor, said covering comprising front and back panels, each having marginal lips, connecting-rails having marginal lips which engage with the marginal lips of the panels, and top and bottom rails and stiles fitting over the edges of the core or filler, said top and bottom rails and stiles being each provided with marginal lips which engage with the lips of adjacent panels and connecting-rails.

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

JOHN W. RAPP.

Witnesses:

GEO. E. CRUSE,
DONALD CAMPBELL.