

E. A. EKEDAHN.
DOOR FRAME.
APPLICATION FILED DEC. 2, 1909.

958,795.

Patented May 24, 1910.

FIG. 1

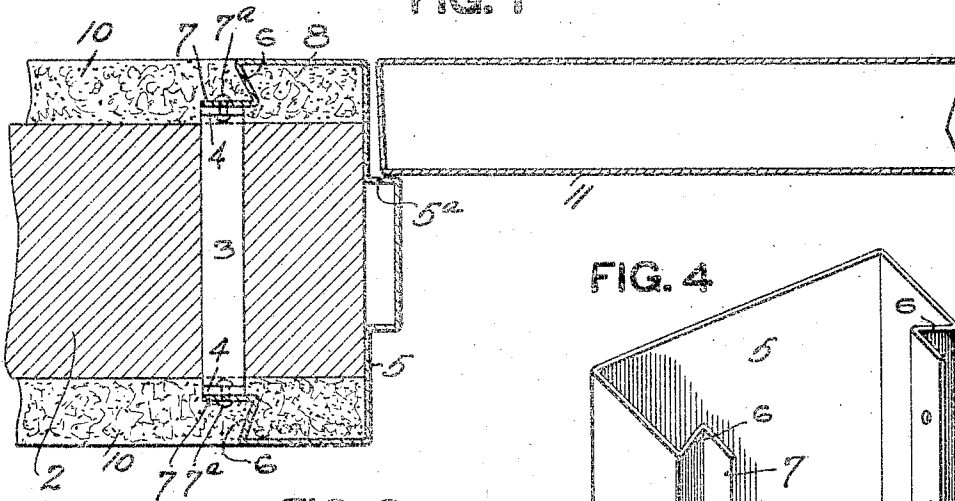


FIG. 2

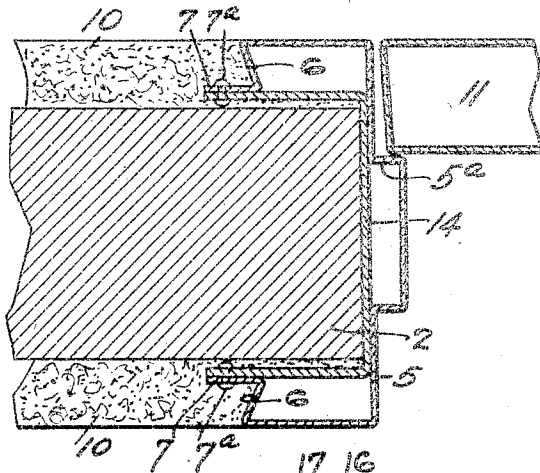


FIG. 4

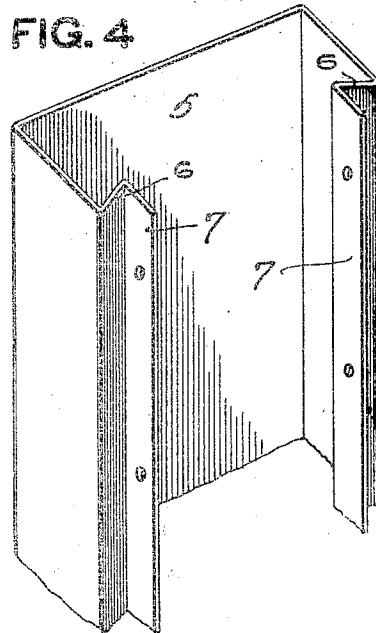


FIG. 5

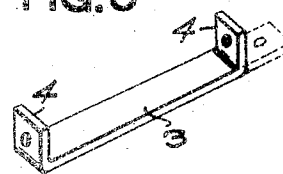
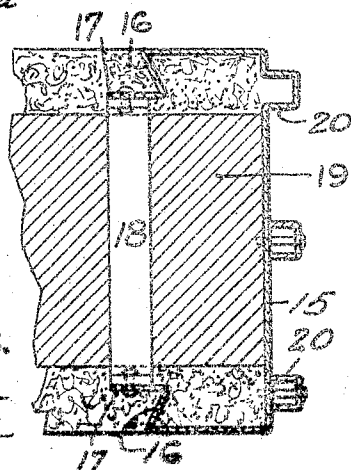


FIG. 3



WITNESSES.

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UNITED STATES PATENT OFFICE.

ERIK A. EKEDAHN, OF JAMESTOWN, NEW YORK, ASSIGNOR TO ART METAL CONSTRUCTION COMPANY, OF JAMESTOWN, NEW YORK, A CORPORATION OF NEW YORK.

DOOR-FRAME.

953,795.

Specification of Letters Patent.

Patented May 24, 1910.

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To all whom it may concern:

Be it known that I, ERIK A. EKEDAHN, a resident of Jamestown, in the county of Chautauqua and State of New York, have invented a new and useful Improvement in Door and Like Frames; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to door and window frames and more especially to metallic frames such as are used in connection with metal-doors in fireproof buildings.

The object of my invention is to provide a frame construction which may be erected and installed before walls are built so that after the frames are plumb and square, the builder has lines to which to build his wall and carry his plaster, which would otherwise cost him considerable time and expense to establish and necessitate more particular work on the part of the masons and plasterers than is required where the frame is erected before the plastering is done.

A further object of my invention is to save the cost of a wooden or other metal buck.

To these ends my invention comprises the novel features hereinafter set forth and claimed.

In the drawings Figure 1 is a cross section of a portion of a door frame showing my invention; Fig. 2 is a cross section of a modified form of my invention; Fig. 3 illustrates my invention as applied to a window frame; Fig. 4 is a perspective view of the framing; and Fig. 5 is a perspective view of one of the bands.

In the drawing the numeral 2 designates the partition or wall frame of tile or other suitable material. Embedded in the wall frame 2 at intervals are the bands 3, said bands projecting beyond the wall frame and having the lugs 4 extending at right angles thereto. The frame 5 is formed of metal of suitable gage and has the dovetail portions 6 with the flanges 7. The flanges 7 are fastened by rivets or other means 7^a to the lugs 4 on the bands 3 which project beyond the wall frame 2. These bands act to keep the frame from spreading and hold it more securely to the wall frame. After the frame 5 has been secured in place in this way the mortar 8 is introduced into the space between the wall frame and the outer walls of

the frame which fills up and supports the frame on the inside. The plaster to form the wall 10 is then applied and is filled in the dove-tail portions 6 so as to form an interlocking connection and all the recesses are filled in to form the finished construction. All that remains to be done after the plaster has been finished is to paint or otherwise finish the metal of the frames to give the desired finish thereto. A portion of the door 11 is indicated which is also formed of metal connected together in suitable manner, the panels and frames being formed in any suitable manner and said doors when closed bear against the projection 5^a of the door frame. In this manner I provide for the erection of the frames and for having them properly and accurately set before the walls are built and plastered, which reduces the labor on the part of the masons and plasterers, as it is only necessary to fill in the plastering of the wall in line with the frame, and as a consequence the construction is much more economical.

In Fig. 2 I have illustrated a modified form of my invention in which a channel piece 14 is employed which acts as a stiffener where it may be found necessary and this channel together with the frame are fastened to the bands as above set forth.

In Fig. 4 I have illustrated my invention as applied to a window-frame in which the frame 15 is formed with the dove-tail portions 16 and with the flanges 17 which are fastened to the bands 18 embedded in the wall 19. The frame 15 is provided with the guideways 20 to receive the sashes of the windows and in which the said sashes slide.

What I claim is:

1. In door and like frames, the combination with a wall frame, of metal bands extending therethrough having lugs bent at an angle to said bands, and a metal frame secured to said lugs.
2. In door and like frames, in combination with a wall-frame, of metal supports therein extending beyond said wall-frame, a metal frame, secured to said supports, said frame having dove-tailed portions to receive the plaster.
3. In door and like frames, the combination with a wall-frame, of metal strips therein extending beyond said wall frame, a metal frame secured to said strips, spaces

being left between the inner and outer faces of said wall-frame and the inner faces of said metal frame, and a filling of plastic material in said spaces.

- 5 4. In door and like frames, the combination with a wall-frame, of a metal frame inclosing a portion of said wall-frame, means for securing said frame to said wall-frame,

and said frame having dove-tailed portions to receive the plaster.

In testimony whereof, I the said ERIK A. EKEDAHL have hereunto set my hand.

ERIK A. EKEDAHL.

Witnesses:

E. F. GILBERT,

LINCOLN M. STEVENS.