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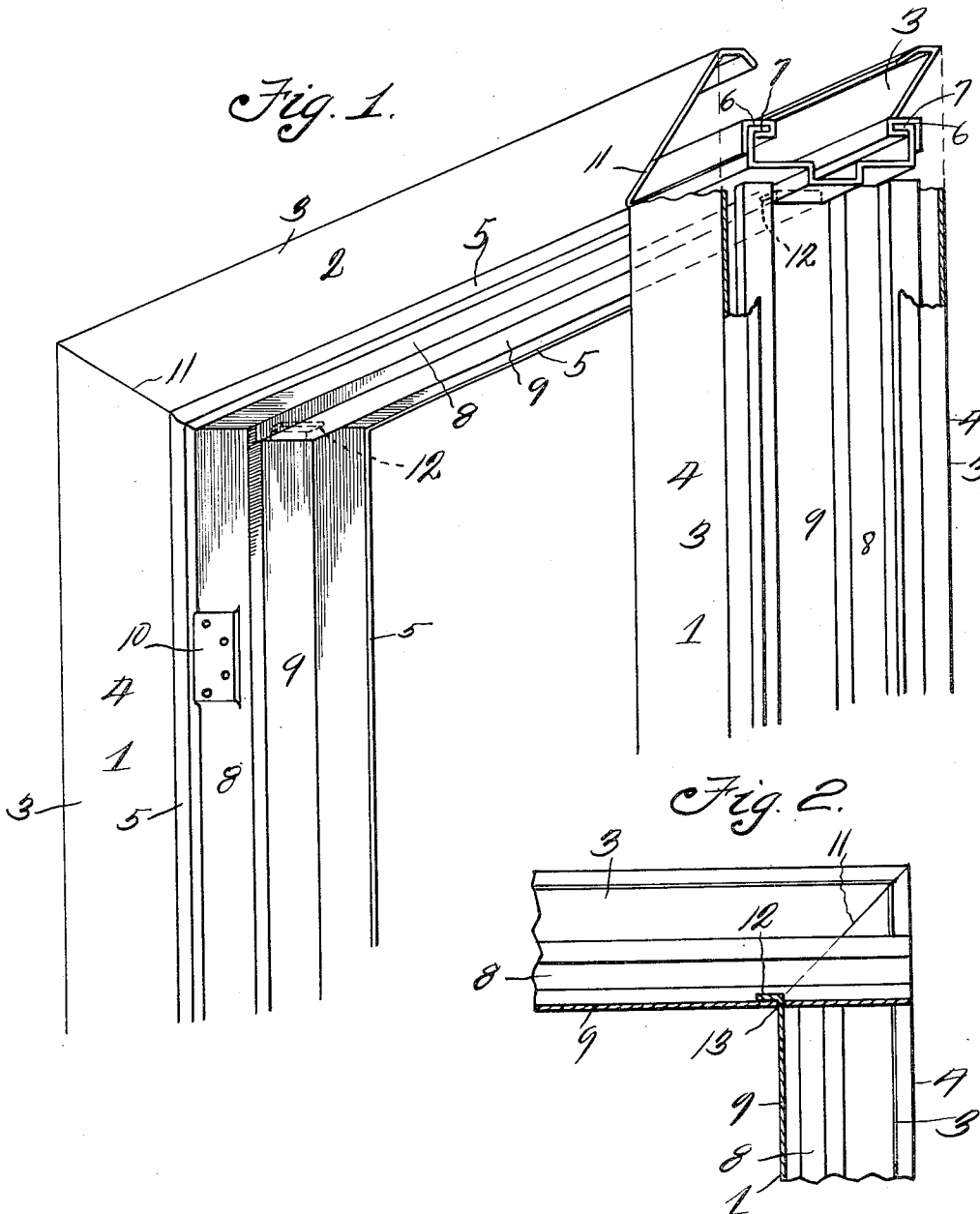
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E. J. ZAHNER ET AL

METALLIC DOOR FRAME

Filed Oct. 5, 1922

2 Sheets-Sheet 1



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Fig. 3.

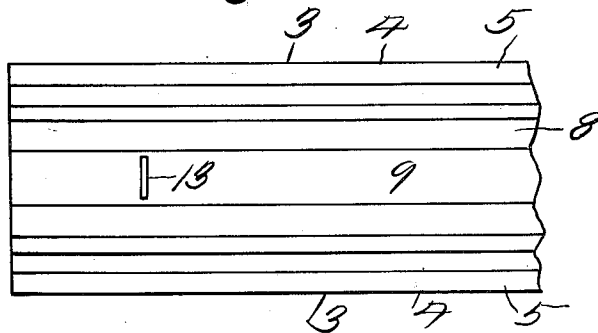
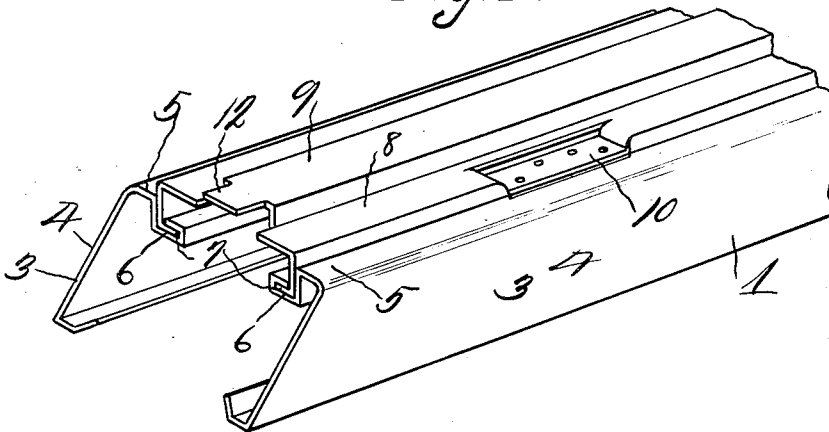


Fig. 1.



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METALLIC DOOR FRAME.

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The invention relates to metallic door frames, and has for its object to provide a device of this character wherein the uprights and the head of the frame are formed from channel members which receive the adjacent sides of a door opening in a wall, whereby the frame is held against displacement. The uprights and head of the frame are formed from angular shaped members having channels in the flanges which extend towards each other, which flanges and channels carried thereby receive angle portions of channel members which form the door jambs.

15 A further object is to provide the ends of the jambs carried by the frame uprights with tongues adapted to be received in apertures of the adjacent jamb sections for holding the frame together, the uprights and head member having miter connections.

20 A further object is to provide the channel member carried by one of the uprights with an inwardly offset portion for the reception of hinges.

25 With the above and other objects in view the invention resides in the combination and arrangement of parts as hereinafter set forth, shown in the drawings, described and claimed, it being understood that changes in the precise embodiment of the invention may be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawings:—

35 Figure 1 is a perspective view of the upper end of the door frame, parts being broken away to better show the structure.

40 Figure 2 is a detail sectional view through one corner of the door in the plane of the frame.

Figure 3 is a bottom plan view of one end of the frame head.

Figure 4 is a perspective view of the upper end of one of the frame uprights.

45 Referring to the drawings, the numeral 1 designates the uprights of the door frame and 2 the head of the frame. The frame as a whole is made of sheet metal and finished by enameling, or in any other suitable manner. However the frame may be placed in a wall opening in any suitable manner, preferably the frame is placed and the wall built around the same. The uprights 1 are formed from spaced angular shaped members 3, the flanges 4 of which are in parallel relation and engage the opposite sides of the

wall. The angularly shaped members 3 have their flanges 5, which extend into the door opening, provided with inwardly offset channels 6, which channels receive the angular disposed flanges 7 of the channel member 8, which channel member is provided with an offset channelled portion 9, U-shaped in cross section, which forms the vertical jamb. The channel member 8, adjacent one side of the jamb 9 is provided with inwardly struck portions 10 in a parallel plane therewith for the reception of hinges, so that a door may be easily and quickly hung in the frame.

70 The head 2 of the door frame is constructed in substantially the same manner as the upright 1, and the same numerals apply thereto. The angle members 3 of the uprights 1 and the head 2 of the frame have miter engagement at 11, and the joint formed by the miter after the metallic door is enameled or painted is invisible and entirely concealed. The upper end of the channel members 9, which form the door jambs are provided with tongues 12, which tongues are received in apertures 13 when the channel sections 8 of the uprights 1 and the head 2 are assembled, said tongues bent over into the adjacent channel members 9, as shown in Figure 2 thereby holding said channel members together.

By referring to Figure 1, it will be seen that the channel members 9 may be assembled, after which the angled shaped members 3, which form the head 2 of the frame may be placed in position by sliding the same into position thereon, after which the angular shaped members 3 of the uprights 1 may be slid upwardly into position. By forming a metallic door frame, it will be seen that the same is fire proof and that the frame may be placed in position and the brick built up around the same, or other structure, thereby obviating, especially in masonry walls, the present practice of forming a rough frame to which a trim is attached for forming a casing.

From the above it will be seen that a door frame is provided which is simple in construction, the parts reduced to a minimum and so constructed that the frame may be easily and quickly assembled, thereby reducing the cost of production to a minimum.

The invention having been set forth what is claimed as new and useful is:—

1. A metallic door frame comprising up-

rights, a header carried by said uprights, said uprights and header being formed from oppositely disposed facing members, said facing members being provided with flanges
 5 extending towards each other, said flanges being provided with channel members disposed between the facing members and spaced apart, channeled jamb members carried by the inner sides of the uprights and
 10 headers, said jamb members being provided with channeled members disposed in the channels of the flanges of the facing members and longitudinally assembled therein and forming sole means for holding the
 15 same together through the outer sides of the uprights.

2. A metallic door frame comprising uprights, a header carried by said uprights and having a bevelled engagement with the upper ends of the uprights, said uprights and header being formed from oppositely disposed spaced facing members, inwardly extending flanges carried by the facing members, channels carried by said flanges, jamb
 20 members carried by the inner sides of the uprights and header, and spaced channeled members carried by the jamb members and disposed in the channel members of the facing flanges and longitudinally assembled
 25 therein and forming sole means for secur-

ing the facing members together through the header.

3. A metallic door frame comprising uprights, a header carried by said uprights and having a bevelled engagement with the
 35 upper ends thereof, said uprights and header being formed from spaced facing members, flanges carried by said facing members and extending towards each other, spaced channels carried by said flanges,
 40 jamb members adjacent the uprights and header, channels carried by the jamb members and disposed in the channels of the flange channels, said jamb members forming sole means for securing the facings together, the ends of the jamb member carried
 45 by the header extending into the upper ends of the uprights between the facing members and positioned through the outer sides of the uprights and interengaging means between the upper ends of the jamb members
 50 carried by the uprights and the jamb member carried by the header in spaced relation to the ends of said last named jamb member.
 55

In testimony whereof we affix our signatures.

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