

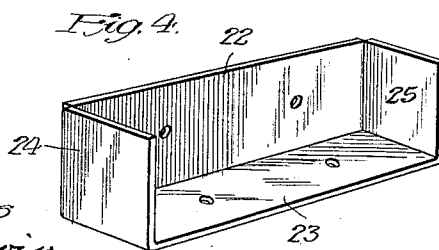
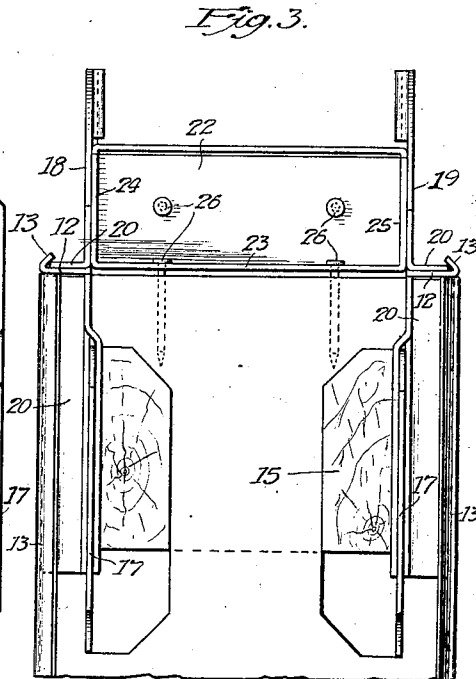
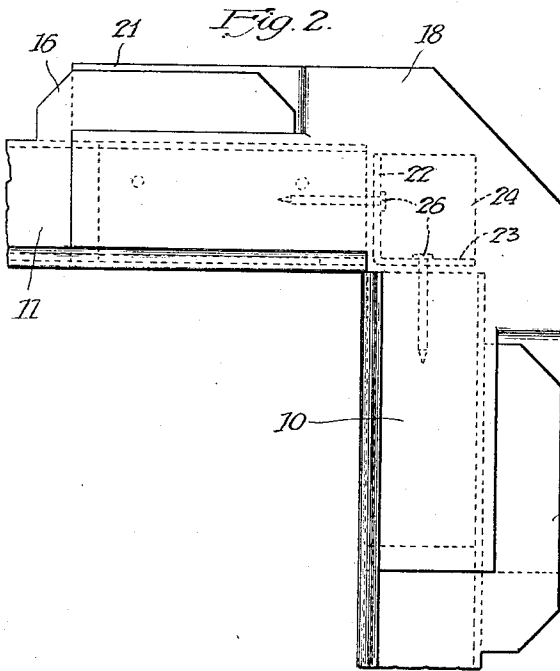
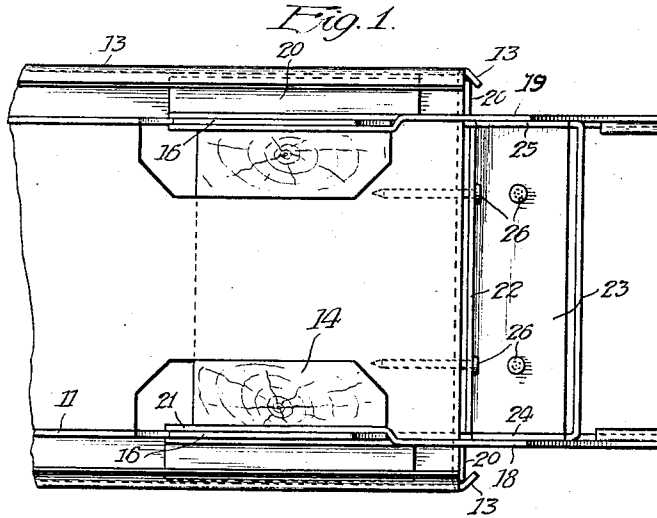
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CORNER CONNECTION FOR FRAMES

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CORNER CONNECTION FOR FRAMES

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My invention relates to means for framing door openings and particularly to a novel end connection.

An object of my invention is to provide a firm and rigid corner connection for intersecting door frame members, the connection device being in the form of a unit of angular outline, the two ends of which are identical, thereby forming a universal element adapted for use at either corner or in either of its two positions.

Another object is to provide means for permanently fixing the connection by the use of nails thereby avoiding the necessity for providing registering openings in two interfitting metal parts.

The invention will be more readily understood by reference to the accompanying drawings, in which

Fig. 1 is a plan view of the end of a frame constructed in accordance with my invention;

Fig. 2 is a side elevation thereof;

Fig. 3 is an end elevation taken at right angles to that of Fig. 2; and

Fig. 4 is a perspective view of the connecting member for the two angle plates.

In the drawings, I have illustrated side and head frame members 10—11 of generally channel shape in cross section. The margins of the flanges of the channel are laterally bent as at 12 and rebent at 13 to provide plaster terminals having an undercut portion. In each end of the frame members 10—11 I mount a wood block 14—15 held in place by suitable nails extending through the flanges of the channel.

Ears 16—17 are struck out of the web of the respective channels and bent to lie in the plane of the side flanges of the channel. This serves a triple purpose; first, it exposes the wood blocks 15 at the back of the channel to enable the attachment of a wood erecting block or brace; second, the ears provide means for laterally holding the frame relative to tile or other masonry of which the wall may be composed; and third, the ears provide means for engagement with the connecting unit about to be described.

This unit consists of a pair of L-shaped

plates 18—19 of duplicate construction. The inside edges of the legs of each plate are bent laterally to provide flanges 20 adapted to slidably interfit with the undercut grooves formed in the plaster terminals. Each leg of the angle plates is slit and the slit portions or tongues 21 are offset to the extent of the thickness of metal of the ears 16, whereby the inside portion of the legs may slide along and outside of the flanges of the channel, while the tongues 21 slide inside of the ears 16.

As a means for connecting the two angle plates so that they may be handled as a unit, I provide the web member shown in Fig. 4 consisting of side walls 22—23 and end walls 24—25, the latter being welded to the inside faces of the angle plates. The webs 22—23 are positioned to abut or be immediately adjacent to the ends of the wood blocks 14—15 and nails 26 are driven through openings in the webs and into the said wood blocks. This constitutes a sufficiently firm and rigid holding device for the parts even though the frictionally holding engagement of the various interfitting elements is insufficient.

Obviously the construction is capable of some modification and I do not wish to be limited except as indicated in the appended claims.

I claim:

1. In combination, side and head frame members of generally channel shape in cross section, wood blocks carried by the respective members near their ends, a pair of angle plates, a web joining and spacing the plates, means providing sliding interlocking engagement between the legs of the angle plates and the respective frame members, and fastening devices extending through the web into the wood blocks.

2. In combination, side and head frame members of generally channel shape in cross section, plaster terminals on the exterior of a flange, said terminals having undercut portions, a separate connecting unit consisting of two angle plates the inside edges of the legs of the plates having lateral flanges adapted to slidably interfit with the undercut portions of the plaster

terminals of the respective frame members, a web for connecting the two angle plates, and means passing through the web for connecting the unit and the frame members.

5 3. In combination, side and head frame members of generally channel shape in cross section, means providing ears projecting laterally from the frame members in the plane of the flanges thereof, and a frame
10 connecting unit consisting of a pair of L-shaped plates, the legs of which are slit and the slit portions offset to slidably interfit with the ears on the frame.

4. In combination, side and head frame
15 members of generally channel shape in cross section, means providing ears projecting laterally from the frame members in the plane of the flanges thereof, a frame connecting unit consisting of a pair of L-shaped
20 plates, the legs of which are slit and the slit portions offset to slidably interfit with the ears on the frame, and means providing interfitting flanges and grooves on said unit and frame members.

5 5. In combination, side and head frame members of channel shape in cross section, ears struck out of the webs of the side members at points near their ends, and a connecting unit comprising a pair of L-shaped
30 plates, each of the legs of the plates being slitted and the slit portions offset to slidably interfit with the ears on the frame members.

6. In combination, side and head frame
35 members of channel shape in cross section, ears struck out of the webs of the side members at points near their ends, a connecting unit comprising a pair of L-shaped plates, each of the legs of the plates being slitted
40 and the slit portions offset to slidably interfit with the ears on the frame members, and means providing interfitting flanges and grooves on said connecting plates and frames.

45 7. In combination, channel frame members, ears struck out of the web of one of the said members near its end, a pair of L-shaped connecting plates, the legs of which are slit and the slit portions offset
50 to slidably interfit with the ears on said frame member.

In testimony whereof I have affixed my signature.

ISAAC A. BAUM.