

Jan. 18, 1927.

J. F. ERNST

1,614,722

BEAM AND POST CONNECTING BRACKET

Filed July 30, 1925

3 Sheets-Sheet 1

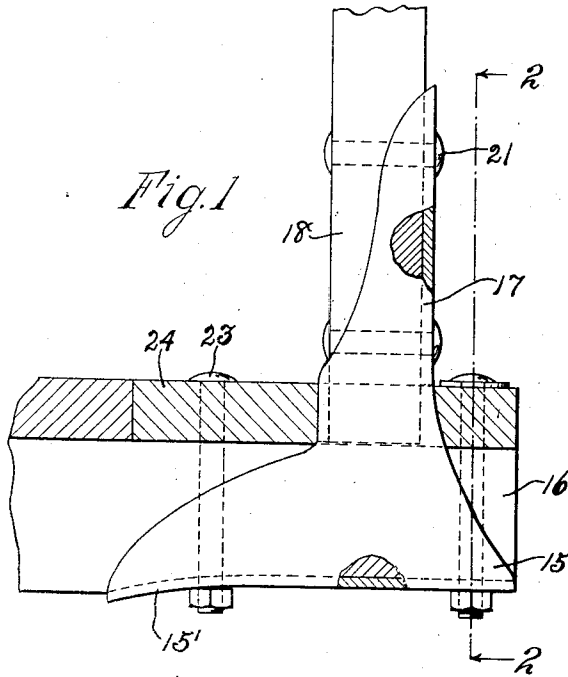
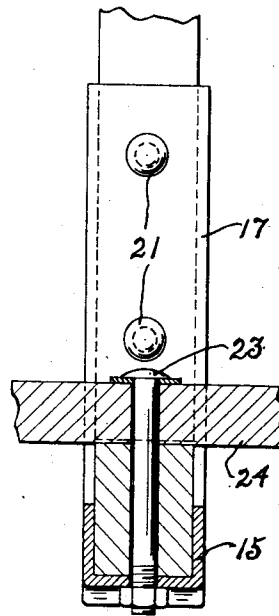


Fig. 2

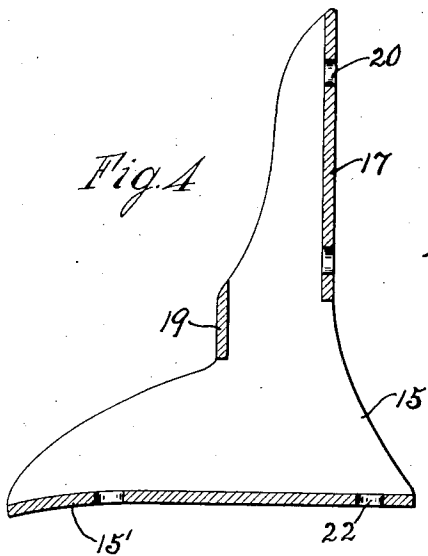
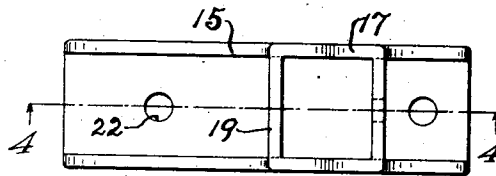


Fig. 3

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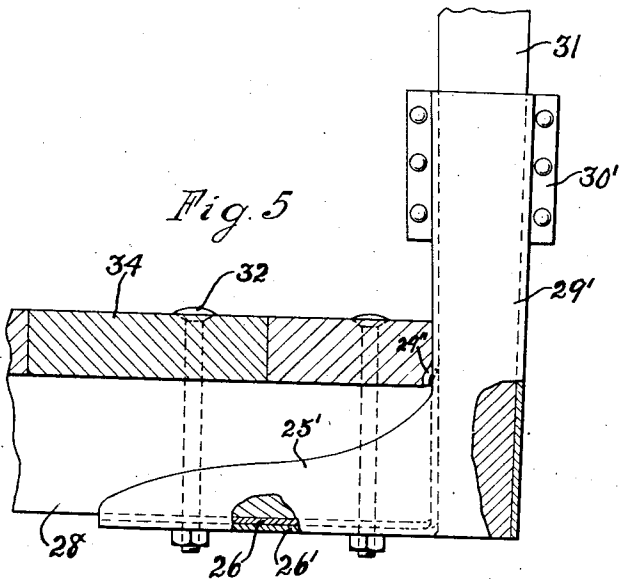
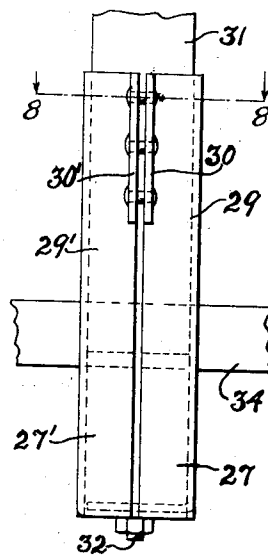
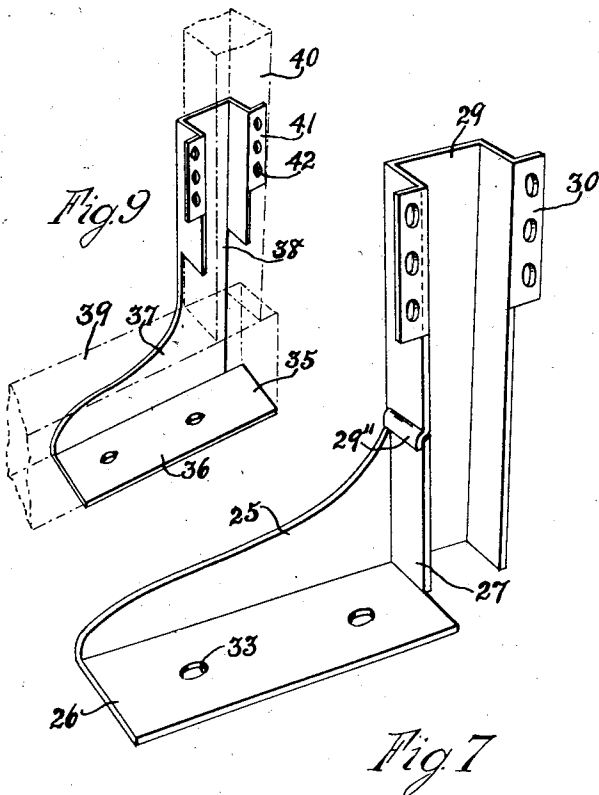
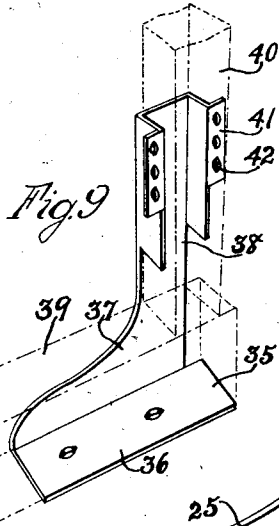
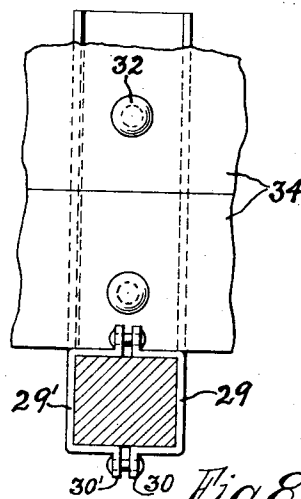
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3 Sheets-Sheet 2



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BEAM AND POST CONNECTING BRACKET

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3 Sheets-Sheet 3

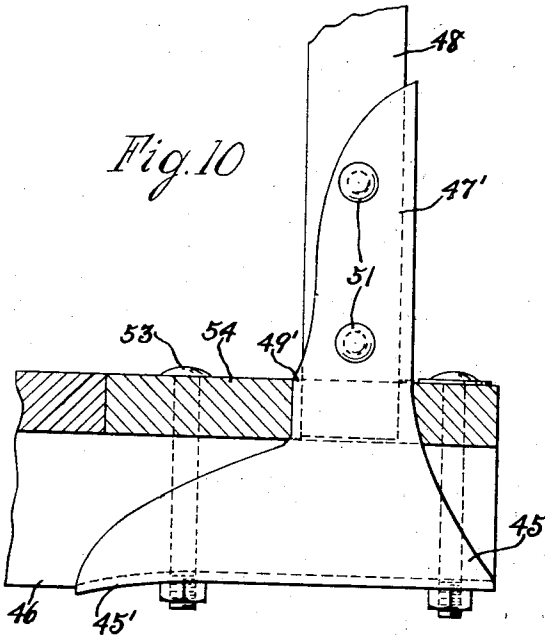
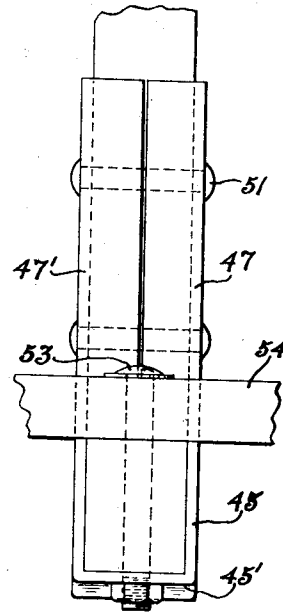


Fig. 11

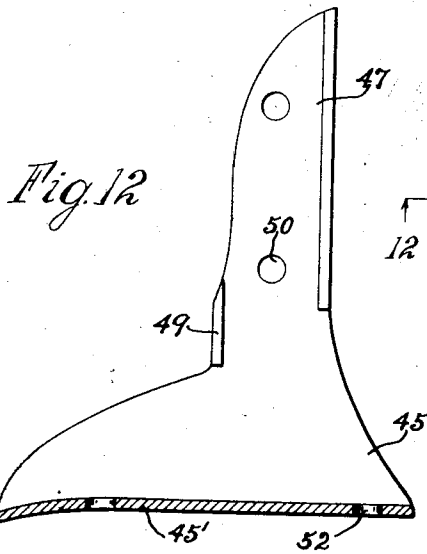
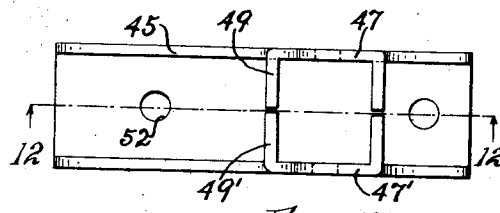


Fig. 13

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UNITED STATES PATENT OFFICE.

JOSEPH F. ERNST, OF CHICAGO, ILLINOIS.

BEAM AND POST CONNECTING BRACKET.

Application filed July 30, 1925. Serial No. 47,070.

My invention relates to a beam and post connecting bracket, and has for its principal object the provision of a simple and durable bracket for conveniently connecting a beam or floor sill with a post or standard, so as to provide a strong and rigid construction, and is particularly adapted for use in automobile construction, and the like, and especially for fastening a vertical post as a corner post to a floor beam. Other objects and advantages will be apparent from the following disclosure.

The invention may be embodied in various forms of construction, several of which are shown in the drawings, in which:

Fig. 1 is a side elevation of one form of bracket in its operative position connecting a post to a beam with the floor boards around;

Fig. 2 is a vertical section on line 2—2 of Fig. 1;

Fig. 3 is a plan view of the bracket;

Fig. 4 is a vertical longitudinal section of the bracket;

Fig. 5 is a side elevation of another form of bracket, holding a post and beam with floor boards thereon in position;

Fig. 6 is an end elevation thereof;

Fig. 7 is a perspective view of one half of this form of bracket;

Fig. 8 is a horizontal sectional view, taken on line 8—8 of Fig. 6;

Fig. 9 is a perspective view of a further modified form of my invention;

Fig. 10 is a side elevation of still another modified form, similar to that shown in Fig. 1, but constructed with two separated halves or channel portions for the socket part, and being adapted to be made from a flat blank;

Fig. 11 is an end elevation thereof;

Fig. 12 is a vertical section of this form of bracket; and

Fig. 13 is a plan view of the bracket.

The form of my invention illustrated in Figs. 1 to 4 comprises a bracket having a lower shoe portion or channel portion 15 which has its bottom 15' shaped or curved to fit the contour of the particular beam or sill 16 which is embraced by said shoe portion. From the upper sides of this shoe portion arises the socket portion 17 arranged to snugly fit and embrace the post or standard 18 and hold it in position against beam 16. The rear part of the socket preferably extends a distance up along the post, and a short web 19 is preferably provided at the

front of the post to hold it firmly in position. Holes 20 are provided in the rear part of the socket for receiving bolts or rivets 21 which extend through said part and through the post. Holes 22 are provided in bottom 15' of the shoe for receiving bolts 23 passing through said shoe and beam 16 and through floor boards 24 resting on said beam. This form of bracket is made in one integral piece and may be constructed by casting it.

The form shown in Figs. 5 to 8 is made up of two similar halves or parts fastened together, and which include side portions 25 and 25' having bottom flanges 26 and 26' thereon which are superposed to form a doubled bottom for the shoe, half flanges 27 and 27' are bent up from bottom flanges 26 and 26', and extend upward at the inner end of beam 28. The socket parts 29 and 29', which extend up from the shoe, are channel shaped and have flanges 30 and 30' which are fastened together by rivets or bolts to clamp the socket parts upon post 31, and a lip 29'' is preferably provided on each socket part to engage flange 27 and aid in holding it in position. Bolts 32 extend through bolt holes 33 in the bottom flanges and through beams 28 and floor boards 34 supported thereon. The socket in this form is preferably tapered in order to hold the post firmly in position and prevents downward movement thereof, transverse bolts may be used through the post and socket if desired.

Fig. 9 shows a modified form differing slightly from that shown in Fig. 7, by having the inner end 35 of the bottom flange 36 of shoe 37 extending under and beyond the socket part 38, so as to assist in supporting beam 39 upon which post 40 is directly seated. The end parts 35 are bent down in this form for supporting the beam, instead of being bent up to form a flange 27 as in the preceding form. Suitable connecting flanges 41 with suitable rivet openings 42 are provided on this form, like in the preceding form.

The form of invention illustrated in Figs. 10 to 13 is similar to that shown in Figs. 1 to 4, but has its socket part split or separated at the front and rear thus enabling the bracket to be formed from a blank of sheet metal or the like. This form comprises a shoe 45 having a bottom part 45' curved to fit the outline of the particular beam 46

which said shoe embraces. From the upper sides of the shoe arise the socket portions 47 and 47', both being channel shaped in form and arranged to snugly embrace the post or standard 48, like in the preceding form. The rear part of the socket extends up along the post, and a short front web is formed by flanges 49 and 49' to engage the front of the lower part of the post. Holes 50 are formed in the side walls for receiving bolts 51 which extend through the socket walls and through the post to hold it firmly within the bracket and against the beam 46. Holes 52 are provided in bottom wall 45' of the shoe for receiving bolts 53 which pass through said shoe and beam and through floor board 54 fastened on said beam thereby.

I have shown my invention in several forms, some of which may be conveniently constructed from flat blanks or straps of metal, or may be constructed of cast metal if desired, and I contemplate making the bracket in various further modifications, and in whatever shape and form is best suited for the particular beam and post connection and for the particular construction of the body in which the beam and post and the bracket are utilized.

What I claim as my invention and desire to secure by Letters Patent is:

1. A bracket for fastening a post upon a beam, said bracket consisting of a single piece of metal formed to provide a shoe having an enlarged intermediate part which with its side and bottom parts embraces said beam thus forming a slanting foot portion with an open heel and toe and which has the top of the side parts of said foot ending

slantingly at the side of said beam beneath the top thereof, and a socket portion arising from said shoe for entirely encircling said post and having a high back wall and a short front web for embracing said post, and bolts extending through said foot part and said socket part and through said beam and post.

2. A bracket for fastening a post upon a beam, said bracket comprising a piece of metal formed to provide a shoe having an enlarged intermediate part which with its side and bottom parts embraces said beam thus forming a slanting foot portion with an open heel and toe, and which has the top of the side parts of said foot ending slantingly at the side of said beam beneath the top thereof, and a socket portion arising from and integral with said shoe for entirely encircling said post at the sides, back and front thereof.

3. A bracket for fastening a post upon a beam, said bracket consisting of sheet metal formed to provide a shoe having an enlarged intermediate part which with its side and bottom parts embraces said beam and forms a slanting foot portion which has the top of the side parts of said foot ending slantingly at the side of said beam beneath the top thereof, and a socket portion arising from and integral with said shoe for entirely encircling said post, and bolts extending through said foot part for fastening said bracket on said beam and post.

In testimony whereof I have signed my name to this specification.

JOSEPH F. ERNST.