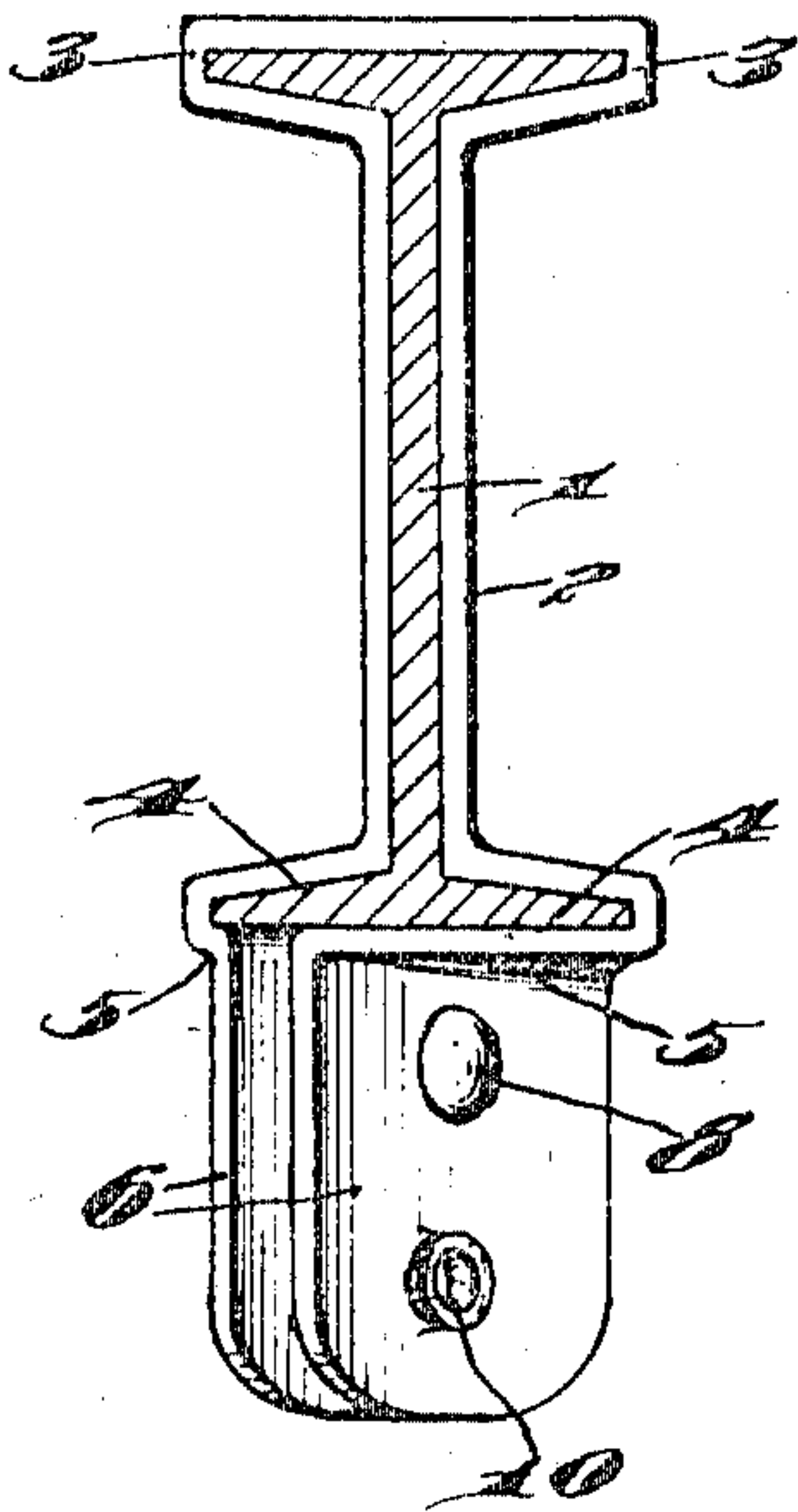


E. M. APPLEBAUGH.  
BRAKE BEAM.  
APPLICATION FILED SEPT. 9, 1910.

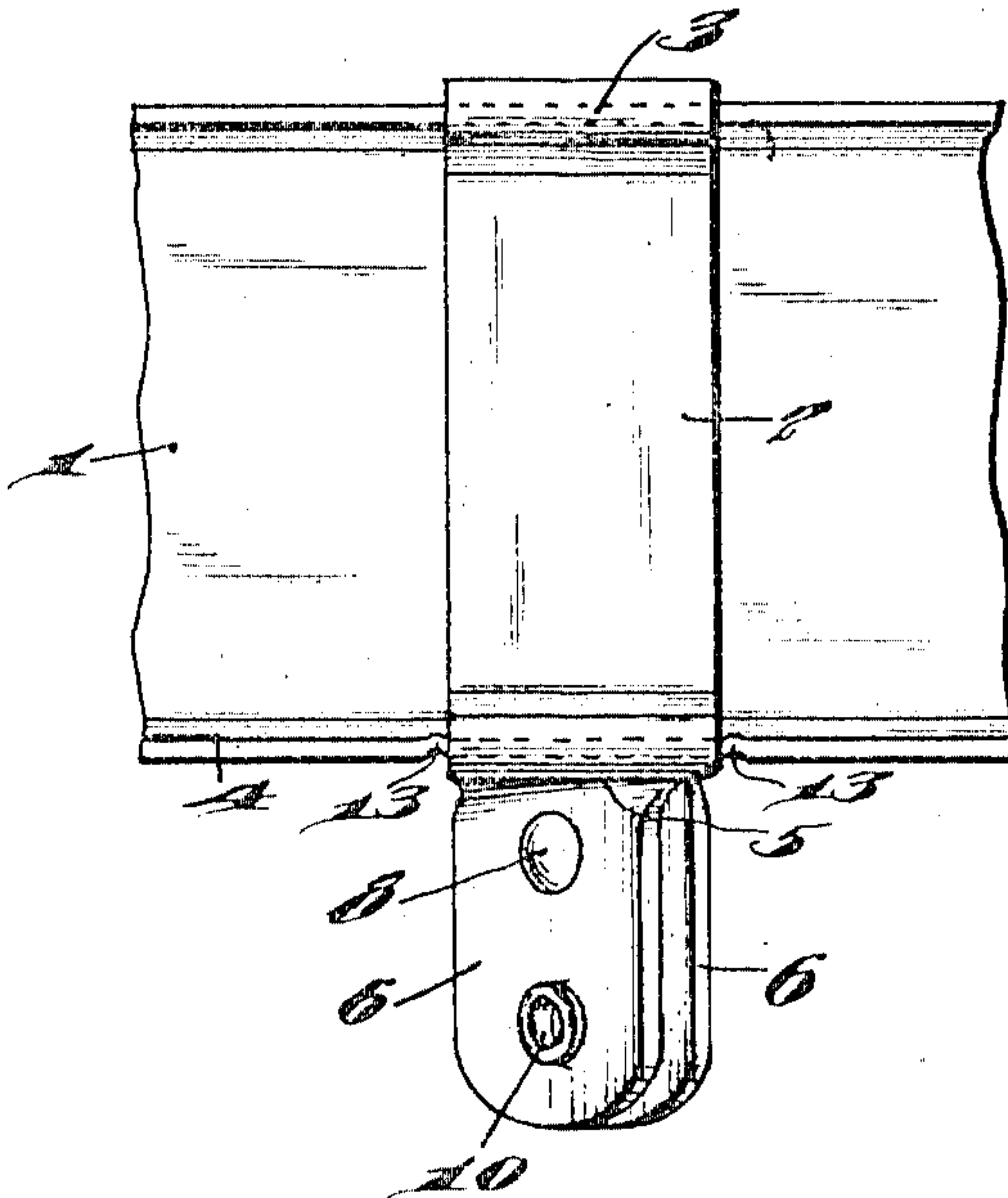
990,510.

Patented Apr. 25, 1911

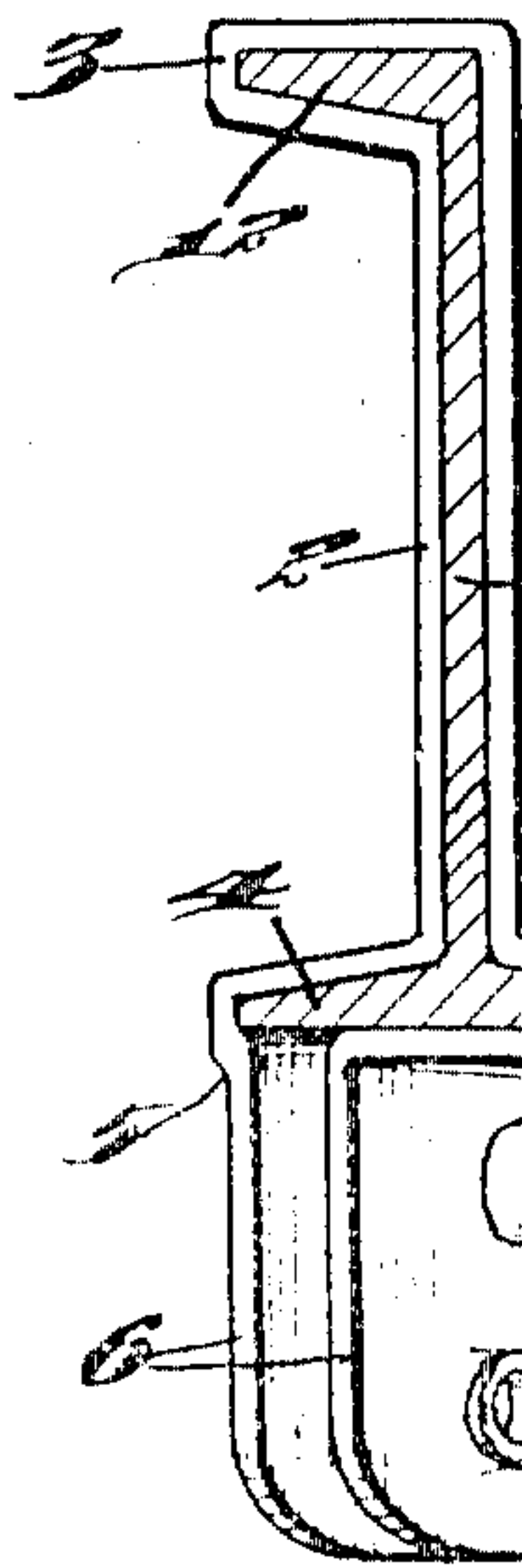
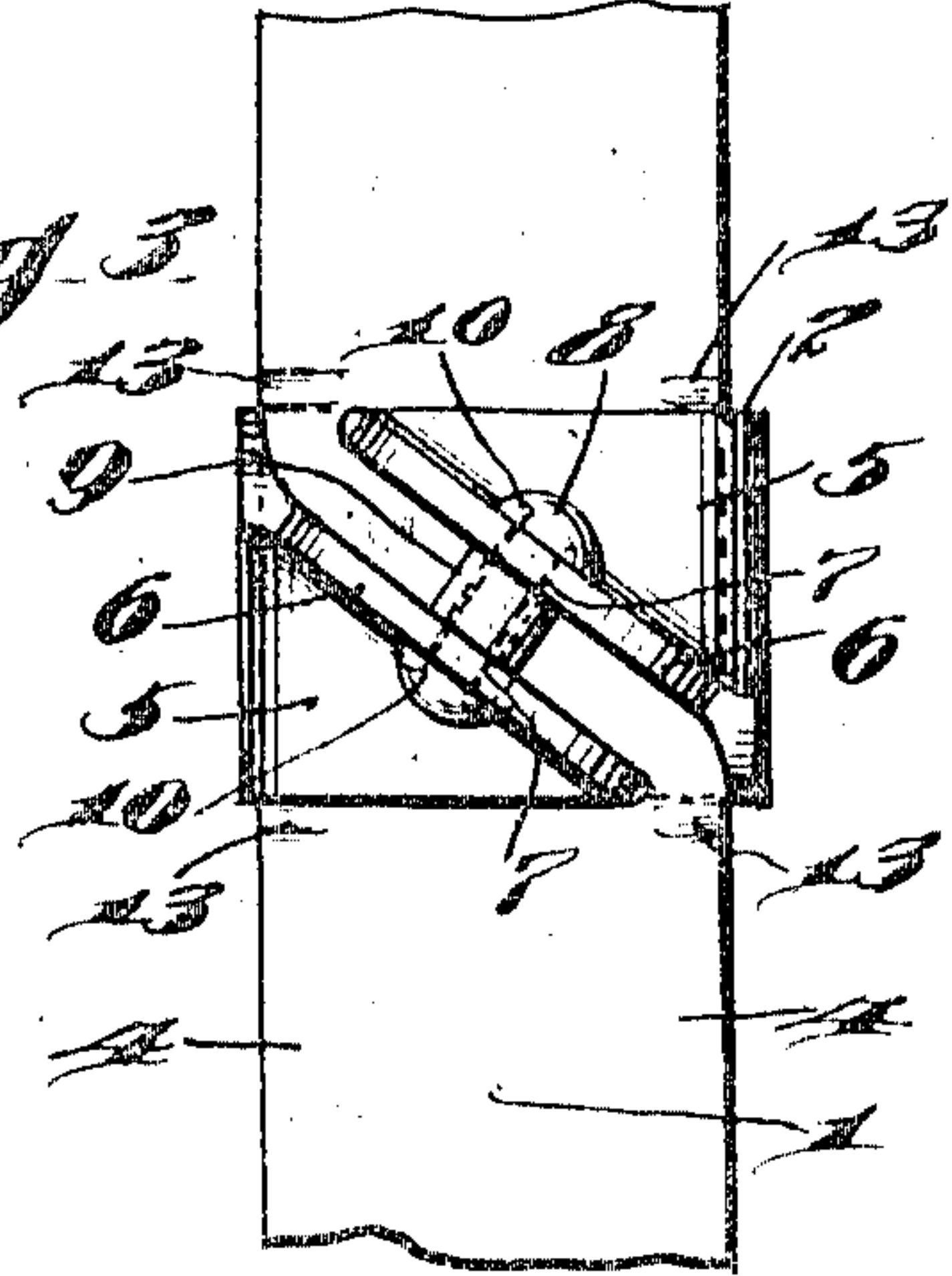
*Fig. 1*



*Fig. 2*



*Fig. 3*



*Fig. 4*

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# UNITED STATES PATENT OFFICE.

EUGENE M. APPLEBAUGH, OF DANVILLE, PENNSYLVANIA.

BRAKE-BEAM.

990,510.

Specification of Letters Patent.

Patented Apr. 25, 1911.

Application filed September 9, 1910. Serial No. 581,175.

*To all whom it may concern:*

Be it known that I, EUGENE M. APPLEBAUGH, a citizen of the United States, residing at Danville, in the county of Montour and State of Pennsylvania, have invented certain new and useful Improvements in Brake-Beams, of which the following is a specification.

My invention relates to improvements in brake beams, and more particularly to an improved fulcrum for brake beams, the object of the invention being to provide an improved single piece fulcrum which will add to, and not detract from, the strength of the beam and which is secured to the beam without the necessity of puncturing the web of the beam.

A further object is to provide a fulcrum of this character composed of a single integral piece of forged metal bent to the desired shape and strong and durable in use.

With these and other objects in view, the invention consists in certain novel features of construction and combinations and arrangements of parts as will be more fully hereinafter described and pointed out in the claim.

In the accompanying drawings: Figure 1 is an edge view showing my improved fulcrum on a beam, the latter shown in section, Fig. 2 is a view in side elevation, Fig. 3 is an inverted plan view of Fig. 1, and Fig. 4 is a view similar to Fig. 1, illustrating a modification.

1 represents an ordinary form of I-beam in common use as a brake beam and on which my improved fulcrum 2 is clamped, as will now be explained.

The fulcrum is composed of a single integral piece of forged metal, bent midway its ends, as shown at 3, to surround and hug the back flanges 4 of the beam 1. The ends of the metal then extend along the sides of the web of beam 1 and are then bent around and hug the base flanges 4 of the beam. The ends of the metal are then given a bend or twist as shown at 5 positioning the ends 6 parallel to each other and preferably at an angle of about forty degrees with relation to the beam which is the normal angle the lever (not shown) is to be supported.

The ends 6 are provided adjacent the bends 5 with registering openings 7, for the reception of a rivet 8 which is located in a spacing sleeve 9, the latter positioned between the ends 6 to maintain them the desired distance apart so as not to clamp the lever (not shown) which is fulcrumed on a bolt (not shown) to be located in registering openings 10 in the ends 6.

If desired the base flange 4 of the beam may be crimped at the edges of the fulcrum, as shown at 13, to prevent any possibility of movement of the fulcrum longitudinally of the beam and other means may be provided, if desired, to prevent such movement, but I do not believe any will be necessary as the fulcrum will securely clamp the beam and maintain itself in place.

In Fig. 4 I show a modification in which the metal of the fulcrum is bent to fit around a beam 11 having but a single flange 12 at one edge but in other respects the construction is identical with that above described and I have used the same reference characters to indicate like parts.

The fulcrum may be bent to fit around any shape of beam and I do not restrict myself to the precise construction set forth, but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claim.

Having fully described my invention what I claim as new and desire to secure by Letters-Patent is:—

In combination with an angular flanged brake beam, a fulcrum composed of a single integral piece of forged metal bent between its ends to conform to the shape of and surround the beam, parallel ends on said fulcrum bent at an angle to the beam, and one of the flanges of said beam crimped at opposite sides of the fulcrum.

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

EUGENE M. APPLEBAUGH.

Witnesses.

W. M. KOSELWISSE,

J. H. MONTAGUE.