

No. 889,497.

PATENTED JUNE 2, 1908.

J. ALLISON.
CAR BOLSTER.

APPLICATION FILED JAN. 31, 1908.

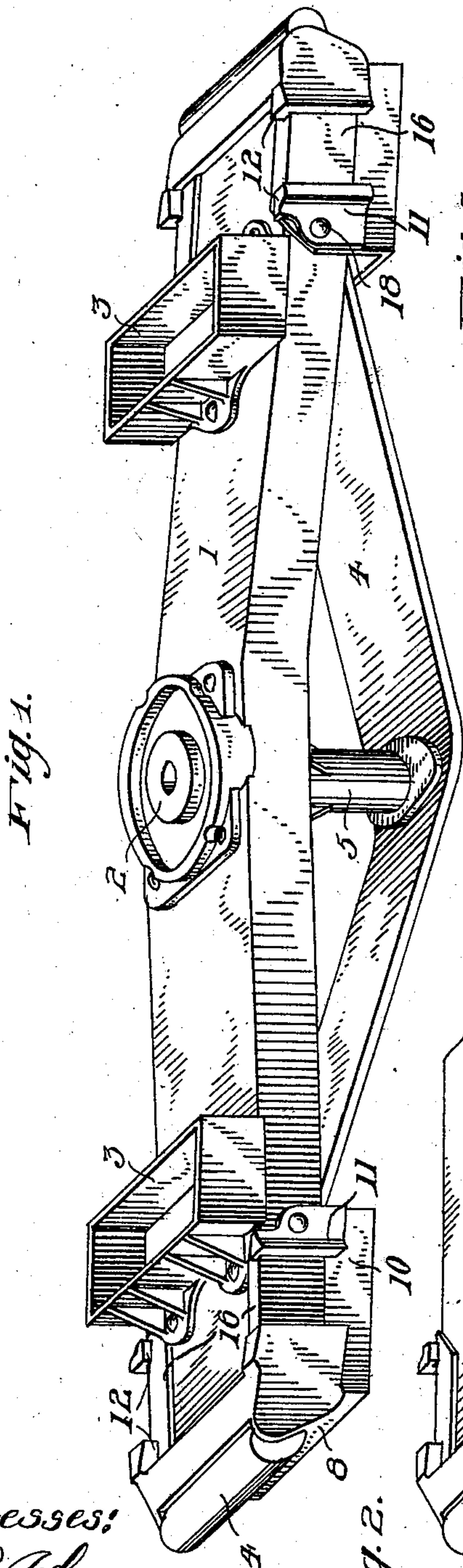


Fig. 1.

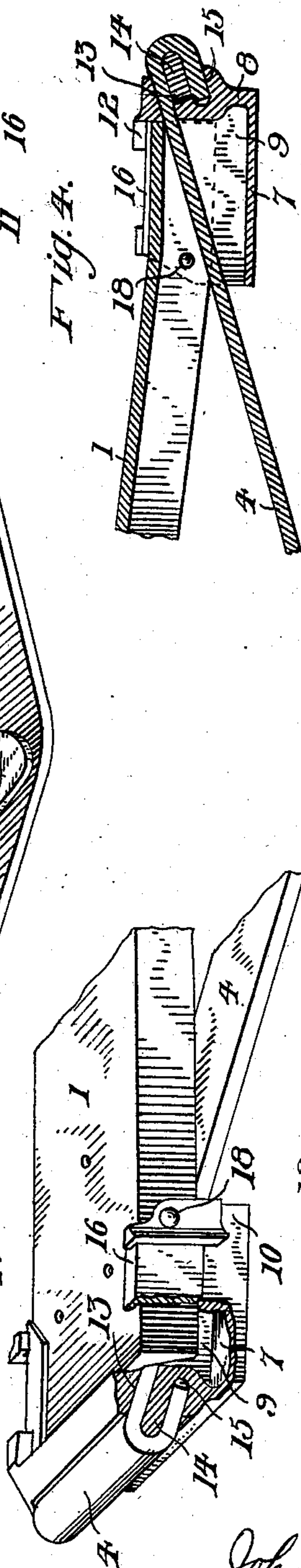


Fig. 2.

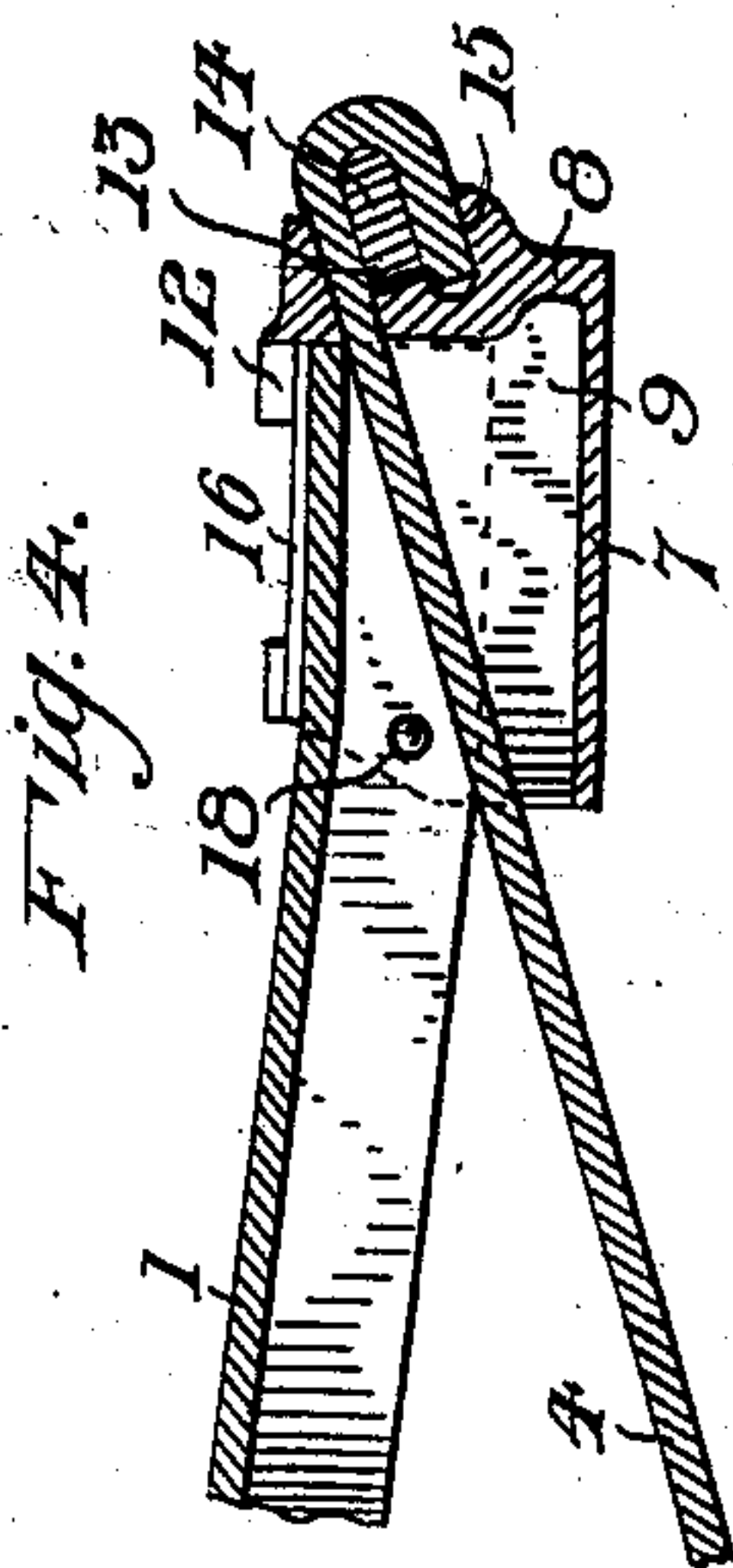


Fig. 3.

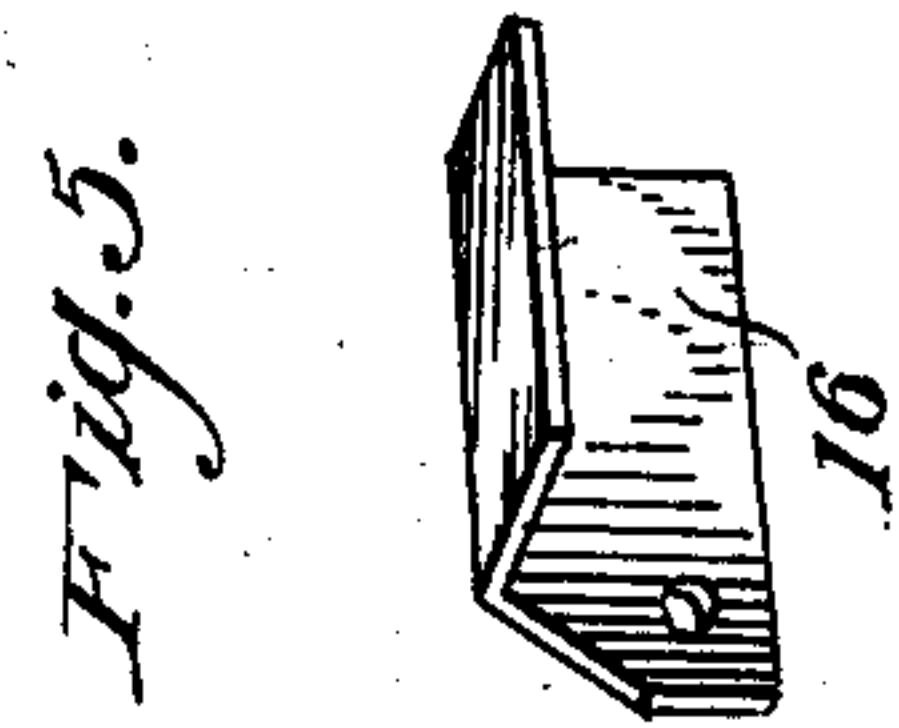


Fig. 4.

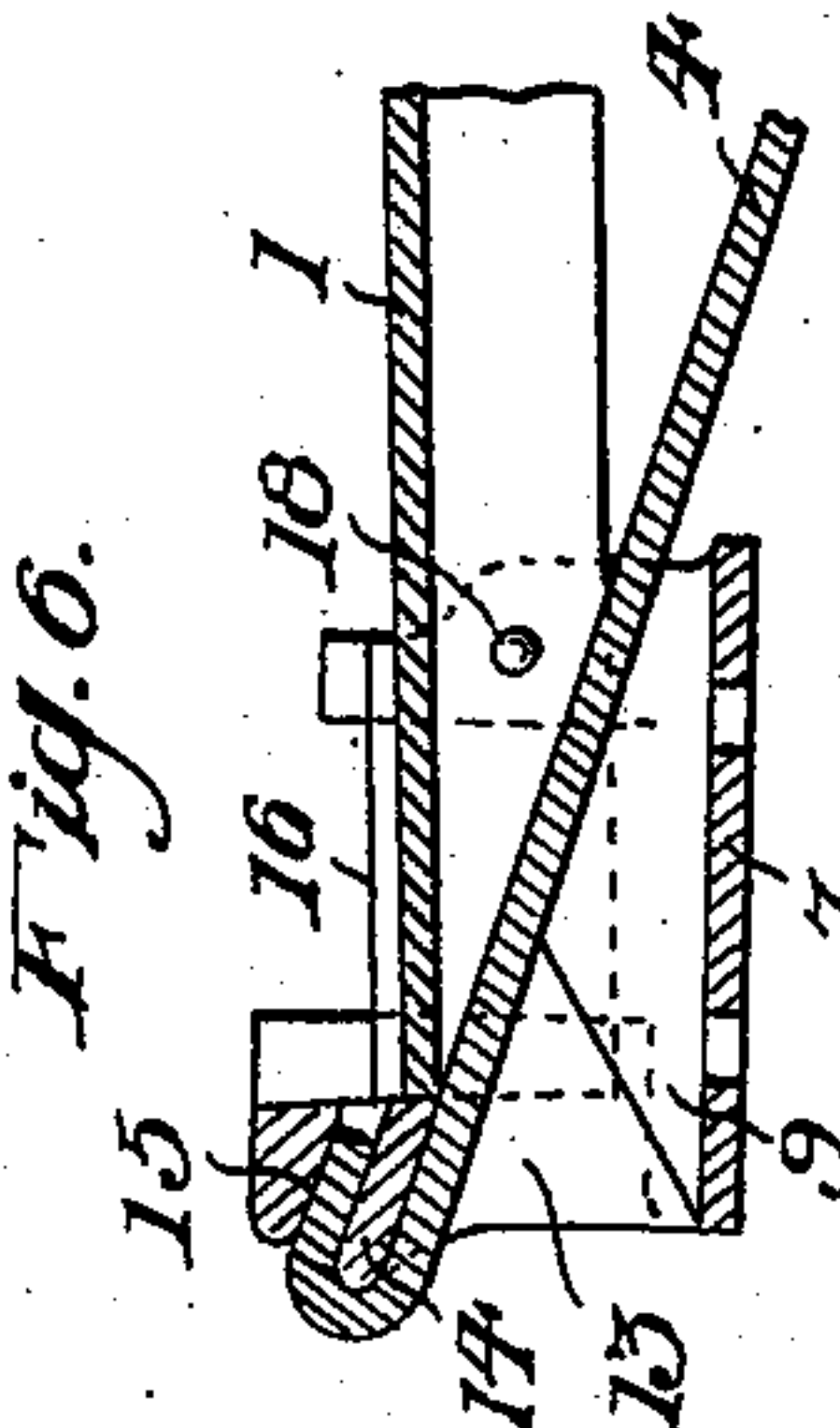


Fig. 5.

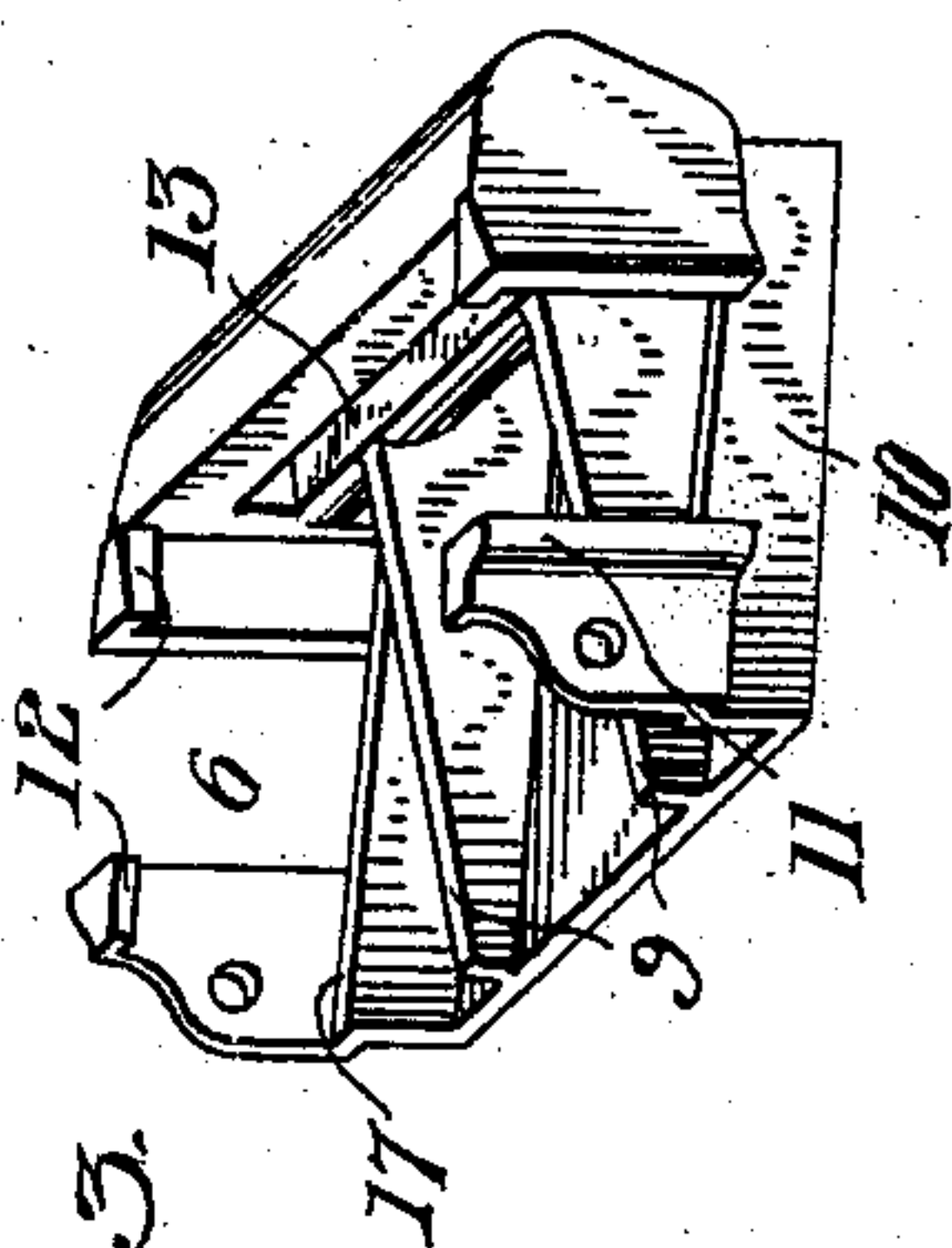


Fig. 6.

Witnesses:
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UNITED STATES PATENT OFFICE.

JOHN ALLISON, OF DRAVOSBURG, PENNSYLVANIA, ASSIGNOR TO PITTSBURGH EQUIPMENT COMPANY, OF PITTSBURG, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

CAR-BOLSTER.

No. 889,497.

Specification of Letters Patent.

Patented June 2, 1908.

Application filed January 31, 1908. Serial No. 413,665.

To all whom it may concern:

Be it known that I, JOHN ALLISON, of Dravosburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Car-Bolsters, of which the following is a specification.

The object of my invention is to provide a new and improved car-bolster comprising a top-member, a bottom-member, and end-members for engaging the ends of the top and bottom-members and particularly designed to receive the thrust of the compression-member and the pull of the tension-member.

In the accompanying drawing which illustrates applications of my invention as applied to car-truck-bolsters, Figure 1 is a perspective view of a bolster embodying my invention; Fig. 2 a broken perspective view partly in section of the form of Fig. 1; Fig. 3 a perspective view of an end-member; Fig. 4 a detail sectional view showing a slightly modified construction; Fig. 5 a detail view of a plate employed; and Fig. 6 a detail sectional view showing a different manner of bending and securing the ends of the bottom-member to the end-members.

Referring to the drawing, 1 designates a top or compression-member, preferably of channel-form, and provided with a center-bearing 2 and end-bearings 3. The top-member 1 is connected at its center with a bottom or tension-member 4 by a king-post 5. The bolster at each end is provided with end-members 6, and these end-members constitute important and characteristic features of the present invention. As shown and as preferred each end-member comprises a flat bottom-portion 7, an outer end-portion 8, inclined ribs 9, and side-members 10, the latter having formed integral therewith upright-members having column-guides 11. The upright-members are also provided with inwardly extending flanges 12. The end 8 of each of the said members 6 is formed with a laterally extending opening 13 adapted when the bolster parts are assembled, to receive an end of the bottom-member of the bolster. In addition to the opening 13, the end 8 is formed with a member 14 over which the end of the lower-member of the bolster is bent after being passed through said opening 13, and with a receiv-

ing-groove 15 into which the end of the bent portion of member 4 is seated. In the form of Fig. 4 the member 14, over which the bend is formed, is made separate from the end-member 6.

Interposed between the sides of the top-member and the upright side-members or column-guides 11, I employ plates 16. These plates fit under the flanges 12 and rest upon ledges 17 and are secured to the side-members 10 by bolts 18. These plates 16 overlap and engage the upper edges of the top-member of the bolster as shown. Ledges 17, in addition to acting as supports for plates 16, also act as supports or bearings for the ends of the top-member of the bolster.

In the modified form of Fig. 6, the laterally extending opening of the end-members is made much wider and the member 14 as well as the receiving-groove 15 are disposed above said opening in order to permit the end-portions of the bottom-member to be bent up and around member 14 instead of being bent down and around as shown in the other forms illustrated.

It is obvious that in all of the forms shown the member 14 may be either formed integral with the end-members or separate therefrom.

What I claim is:

1. A bolster having a top-member, a bottom-member, and an end-member having a laterally extending opening, said bottom-member having an end passed through the opening and bent back into engagement with the end-member.

2. A bolster having a top-member, a bottom-member, and an end-member having column-guides formed integral therewith and provided with a laterally extending opening, said bottom-member having an end passed through the opening and bent back into engagement with the end-member.

3. A bolster having a top-member, a bottom-member, an end-member to receive the top and bottom-members provided with column-guides, and a plate interposed between the column-guides and an end of the top-member.

4. A bolster having a top-member, a bottom-member, an end-member formed with a laterally extending opening, an end of the bottom-member passed through the opening,

side-members formed on the end-member, and a plate interposed between the said side-members and an end of the top-member.

5 5. A bolster having a top-member, a bottom-member, an end-member formed with a laterally extending opening, an end of the bottom-member passed through the opening, and a member over which the end is bent.

10 6. A bolster having a top-member, a bottom-member, an end-member formed with a laterally extending opening, an end of the bottom-member passed through the opening, and a groove in the end-member to receive the end of the bent portion.

7. A bolster having a top-member, a bottom-member, and an end-member adapted to receive the ends of the top and bottom-members and formed with an opening through which an end of the bottom-member is passed, and ledges or seats for an end of the top-member. 15 20

In testimony whereof I affix my signature in presence of two witnesses.

JOHN ALLISON.

Witnesses:

NELLIE V. APPLGATE,
W. G. DOOLITTLE.