

No. 814,526.

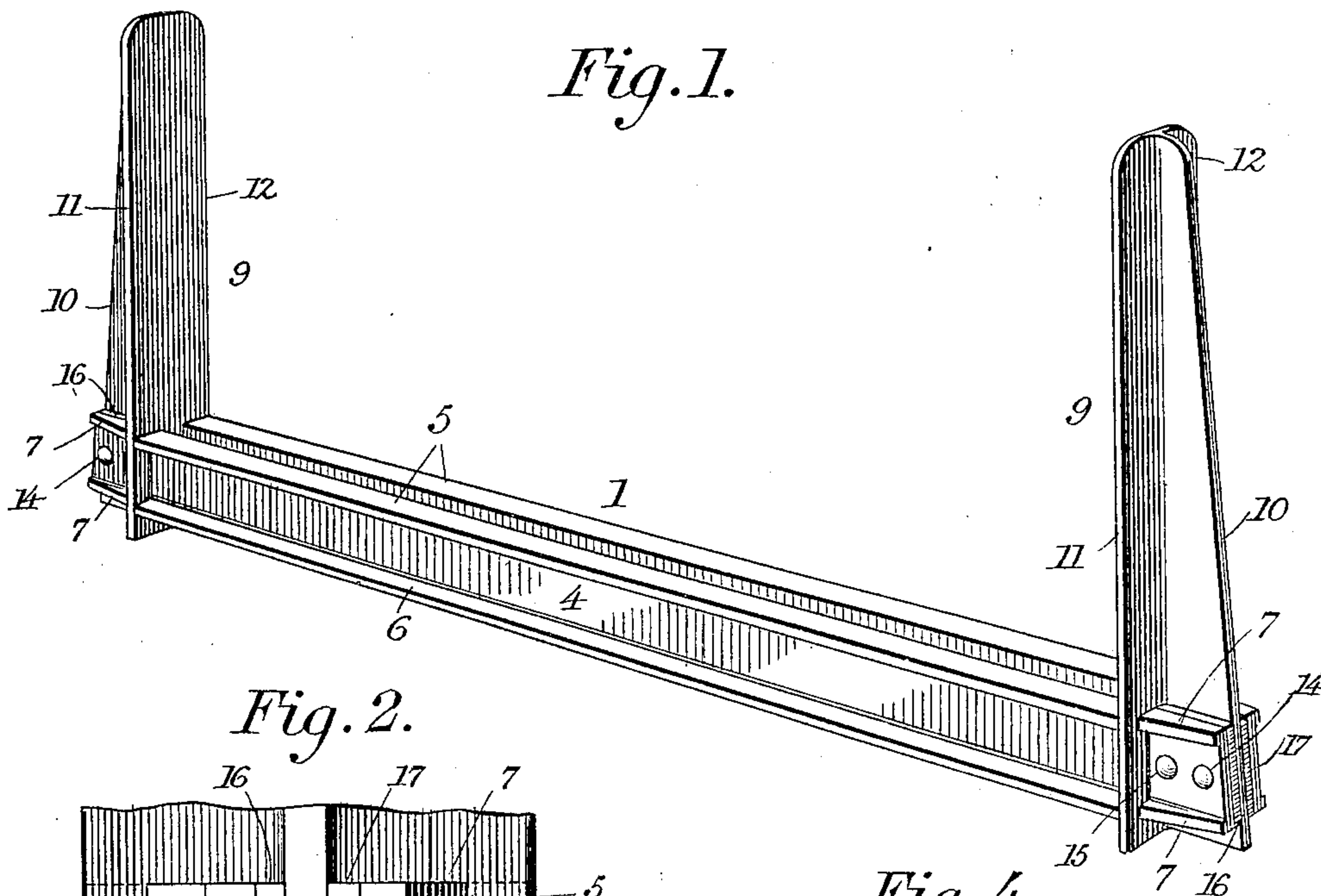
PATENTED MAR. 6, 1906.

E. EINFELDT.

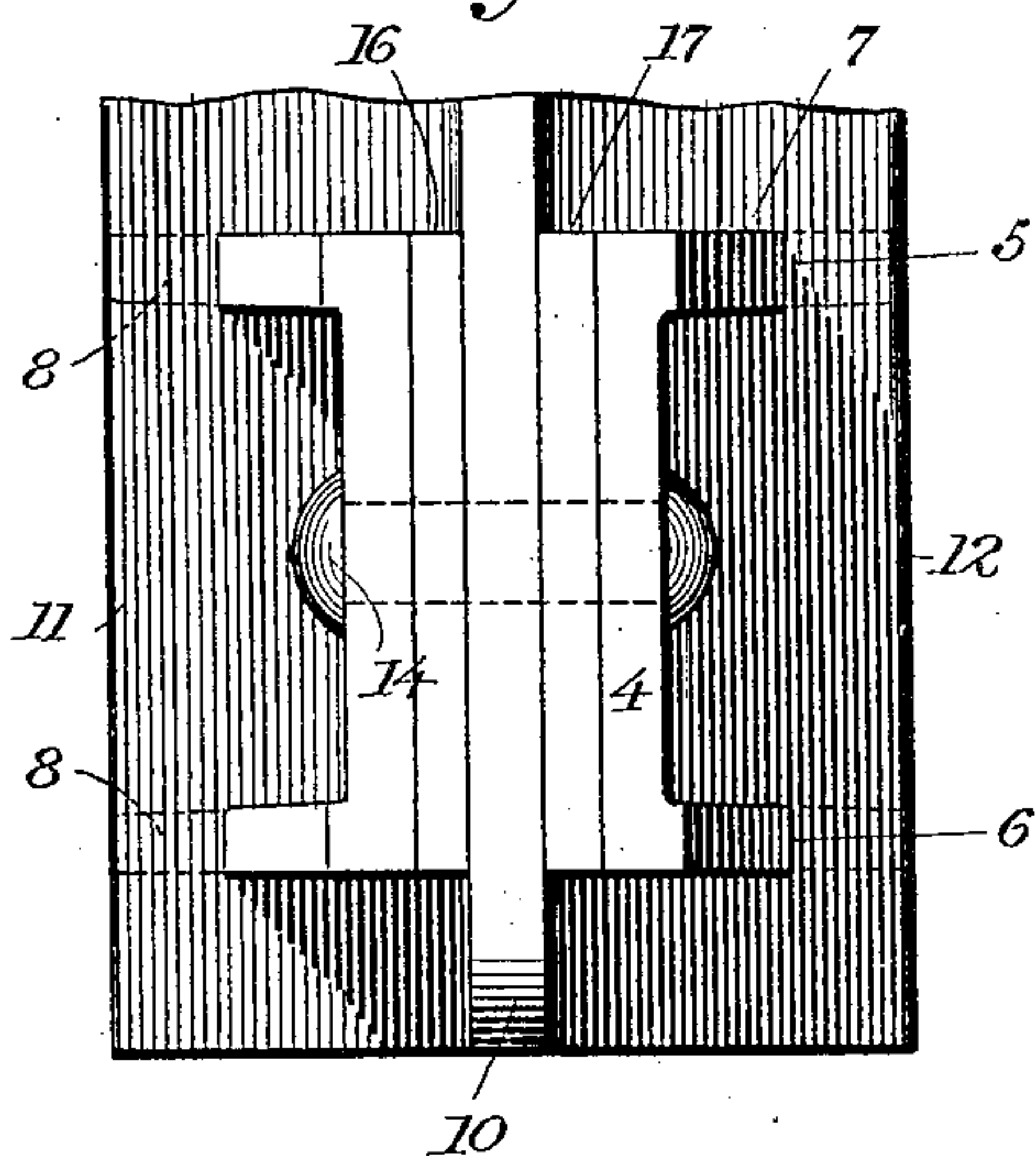
WAGON BOLSTER AND STAKE CONSTRUCTION.

APPLICATION FILED SEPT. 9, 1905.

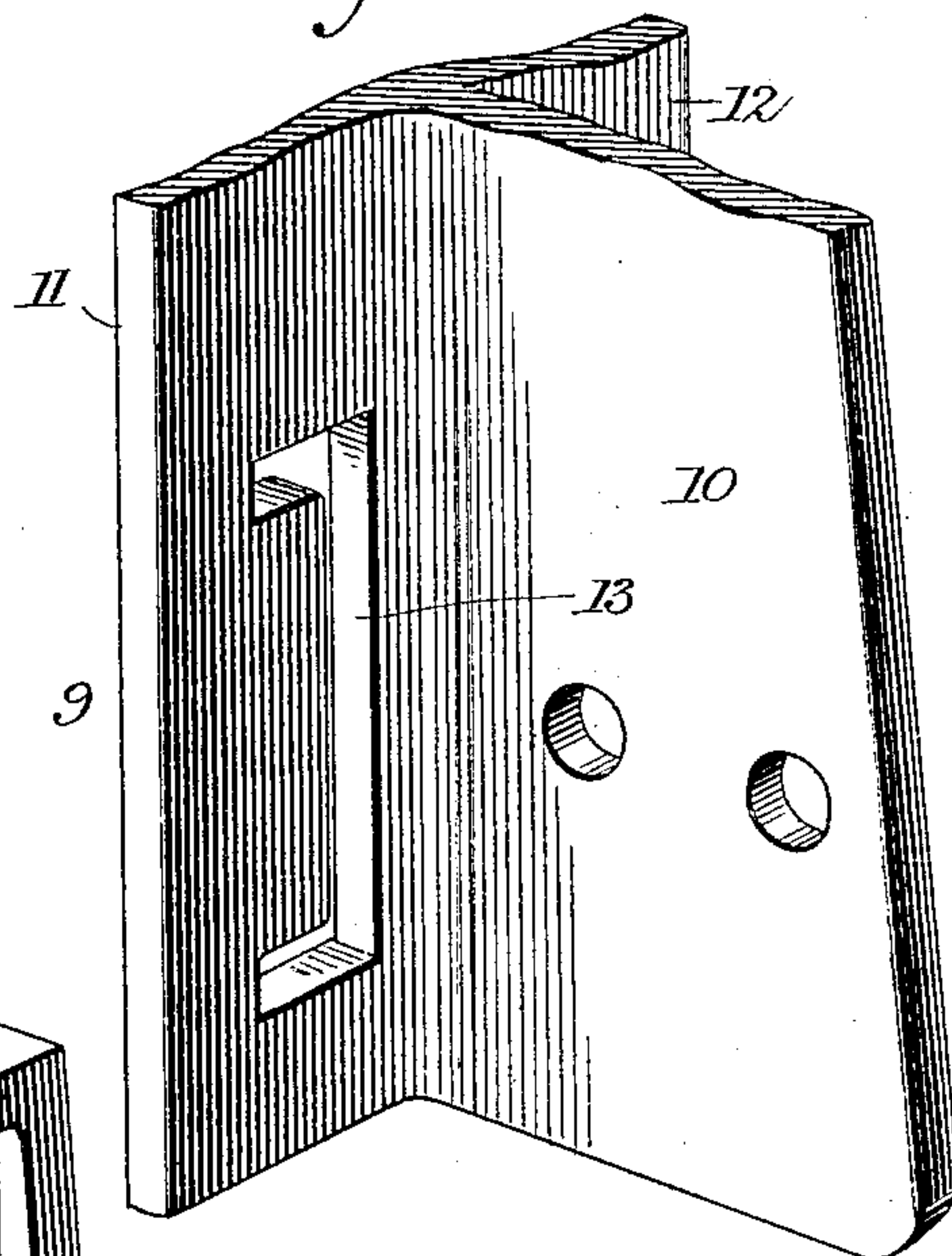
*Fig. 1.*



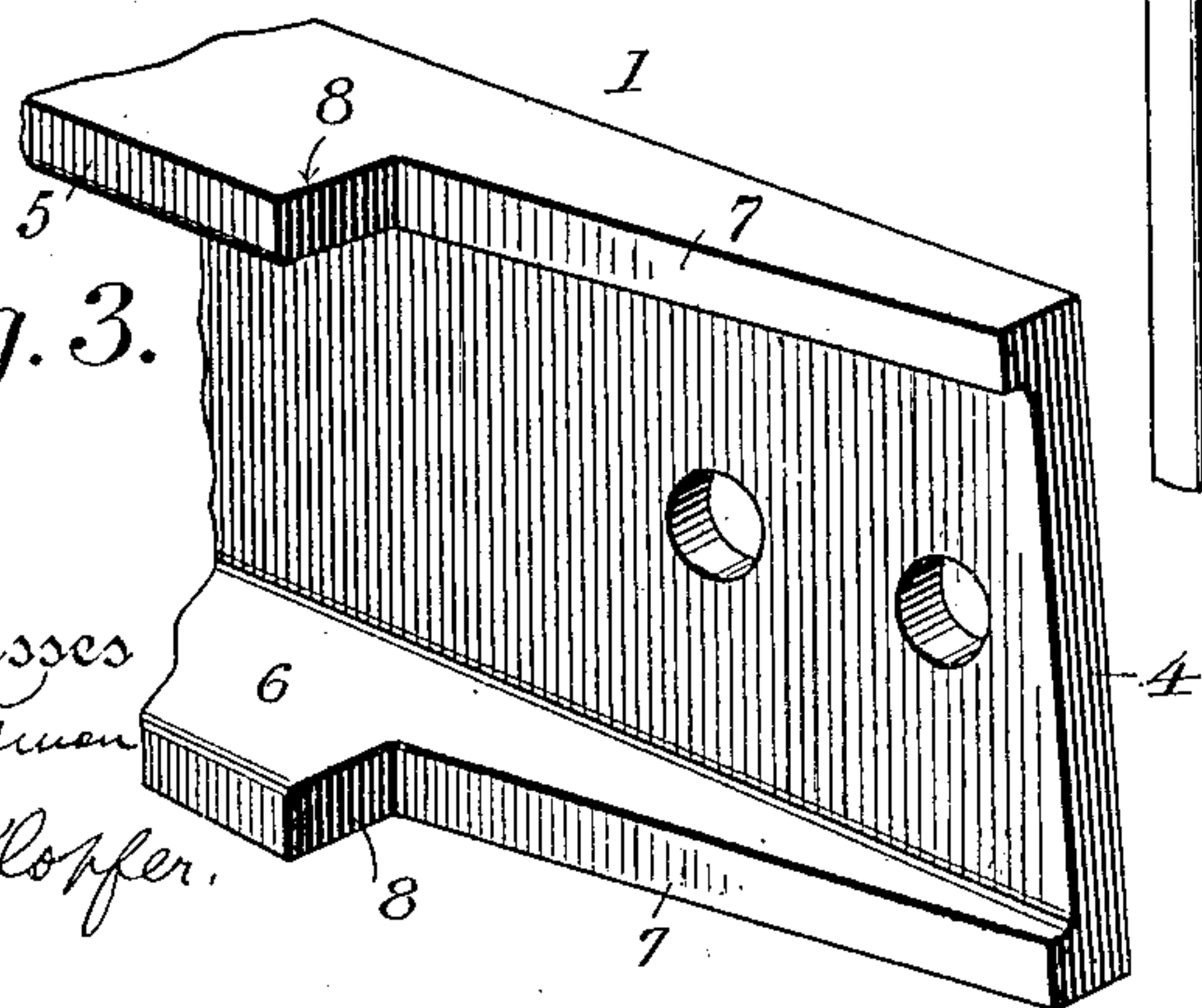
*Fig. 2.*



*Fig. 4.*



*Fig. 3.*



Witnesses  
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# UNITED STATES PATENT OFFICE.

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## WAGON BOLSTER AND STAKE CONSTRUCTION.

No. 814,526.

Specification of Letters Patent.

Patented March 6, 1906.

Application filed September 9, 1905. Serial No. 277,785.

*To all whom it may concern:*

Be it known that I, EMIL EINFELDT, of Davenport, county of Scott, and State of Iowa, have invented a new and useful Improvement in Wagon Bolster and Stake Construction, of which the following is a specification.

This invention has reference to metal wagon-gear construction, and relates more particularly to the form and construction of the bolster and stakes and the manner of securing a firm connection of said parts.

The invention consists in combining with a stake having a web and a lateral flange formed with an opening therethrough a bolster having its end extended through the opening in the flange and along the side of the web and firmly connected thereto.

The invention consists also in the details of construction and combination of parts hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of a bolster and stakes constructed in accordance with my invention. Fig. 2 is an end elevation of the same. Fig. 3 is a perspective view of the end of one of the bolster members. Fig. 4 is a perspective view of the stake detached.

Referring to the drawings, 1 represents a bolster constructed of two members, each in the form of a channel-bar having a vertical portion 4 and upper and lower horizontal flanges 5 and 6. At their ends the flanges of the two members are cut away for some distance inward at an inclination, as at 7, leaving abrupt shoulders 8 at the inner extremities of the cut-away flanges. This construction forms, in effect, a bolster with a reduced end having shoulders at the inner extremity of the same.

9 represents the stakes applied to and firmly connected with the reduced ends of the bolster. Each stake is in the form of a section of flanged metal bar having a central web 10 extending outwardly and oppositely-extending flanges 11 and 12 arranged at right angles to the web and forming a flat face against which the side of the wagon-body bears. To adapt the stake to be fastened to the reduced ends of the two-part bolster, the two flanges of the stake are each formed with an opening 13 to receive, respec-

tively, the reduced ends of the two members of the bolster, the said openings having a vertical main portion, which receives the vertical portion of the bolster member, and having two lateral end portions, which receive, respectively, the two cut-away flanges of said members, the opening being thus of a contour corresponding to the cross-sectional form of the inner extremity of the reduced end of the bolster member.

In assembling the parts in their operative relations the reduced ends of the members of the bolster are passed through the openings in the flanges of the stake and extend alongside the web of the stake, the shoulders 8 being seated against the inner face of the stake-flanges, and in this position the parts are firmly fastened together by means of two fastening devices in the form of rivets 14 and 15, extending through the vertical portions of the bolster members and through the web of the stake.

In forming the two openings in the stake-flanges it may not be advisable to cut them close up to the sides of the web, but a slight distance from the same, so as not to weaken the stake at this point. When, therefore, the reduced ends of the bolster members are inserted in the openings, spaces will be left between the members and the web. In order to meet these conditions, I propose to insert in these spaces filling-plates 16 and 17, which plates are held in position by the rivets 14 and 15.

It will be observed from the construction described that the shoulders 8 and the inner faces of the bolster members by cooperating with the inner faces of the flanges of the stake and the outer faces of the web of the stake, respectively, effectively prevent any relative movement of the stake and bolster members and secure a firm and rigid connection of the parts, maintaining the stake fixedly in an upright position.

By tapering or inclining the reduced ends of the bolster members I am enabled to secure a tight fit of the same within the openings in the stake-flanges.

Having thus described my invention, what I claim is—

1. In combination with a stake having a web, and a lateral flange formed with an



opening therethrough, a bolster having its end extended through said opening and fastened to the web.

2. In combination with a stake formed with a central web and two lateral flanges, the latter having openings therethrough, a bolster in the form of complementary members having their ends extended through said openings, and fastened to the opposite sides of the web of the stake.

3. In combination with a stake having a web, and a lateral flange formed with an opening therethrough, a bolster formed with a reduced end extended through the opening and fastened to the web and having a shoulder bearing against the inner face of the flange.

4. In combination with a stake having a web and flange, the latter being formed with an opening, a bolster having a tapered reduced end, and shoulders, the reduced end of the bolster being extended through the open-

ing in the flange and fastened to the side of the web, with the shoulder bearing against the inner face of the flange.

5. In combination with a stake having a central web, and two lateral flanges formed each with an opening therethrough, a bolster in the form of two complementary flanged members having their ends reduced and provided at the inner extremities of the reduced portions with shoulders, the said reduced ends of the bolster members being extended through the openings in the stake-flanges and firmly fastened to the opposite sides of the stake-web, with the shoulders bearing against the inner face of the said flanges.

In testimony whereof I hereunto set my hand, this 22d day of August, 1905, in the presence of two attesting witnesses.

EMIL EINFELDT.

Witnesses:

M. LOUISE DODGE,  
A. NEILSON.