

No. 884,327.

PATENTED APR. 7, 1908.

C. F. FREDE.
CAR NEEDLE BEAM ATTACHMENT.
APPLICATION FILED DEC. 30, 1907.

Fig. 1.

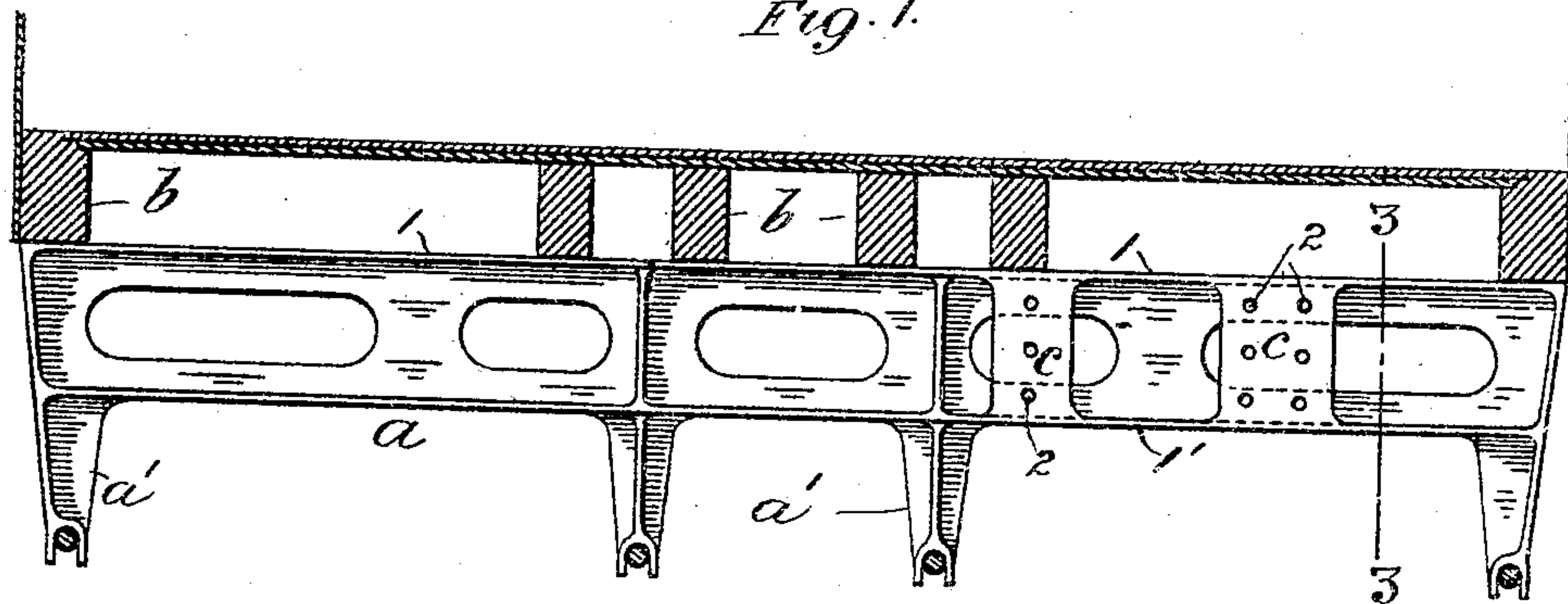


Fig. 2.

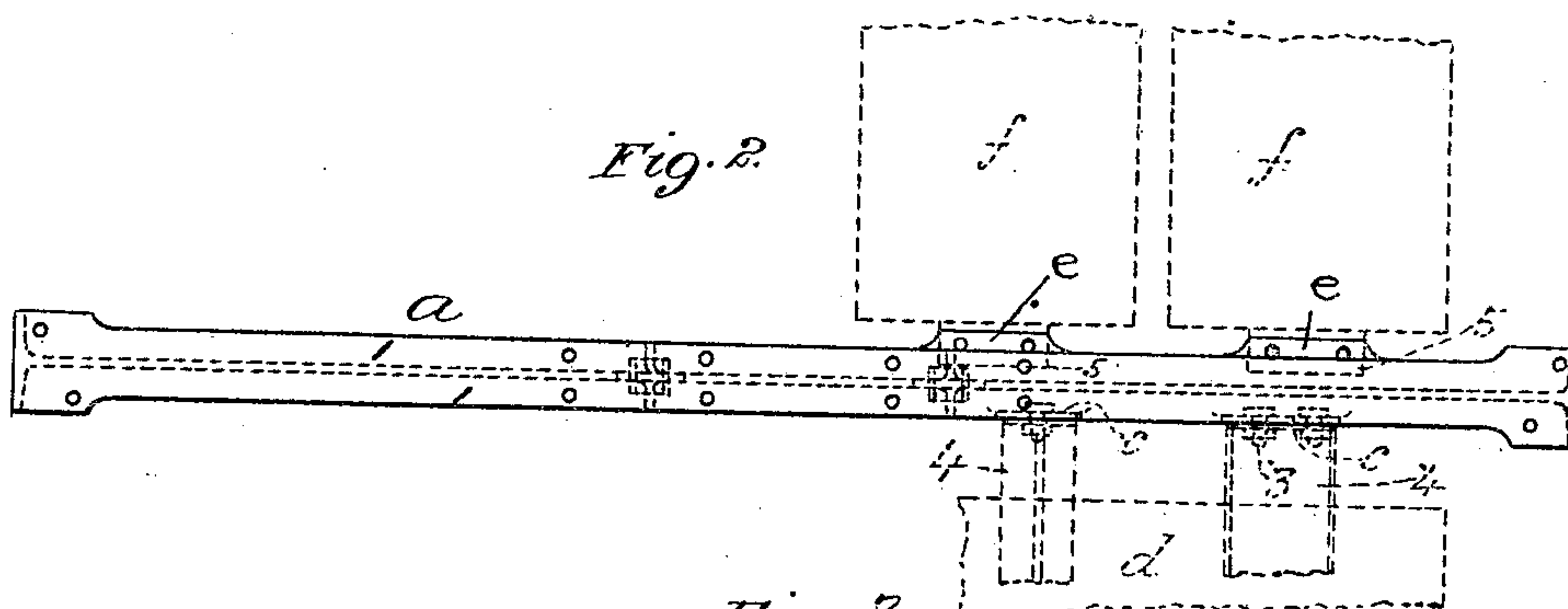
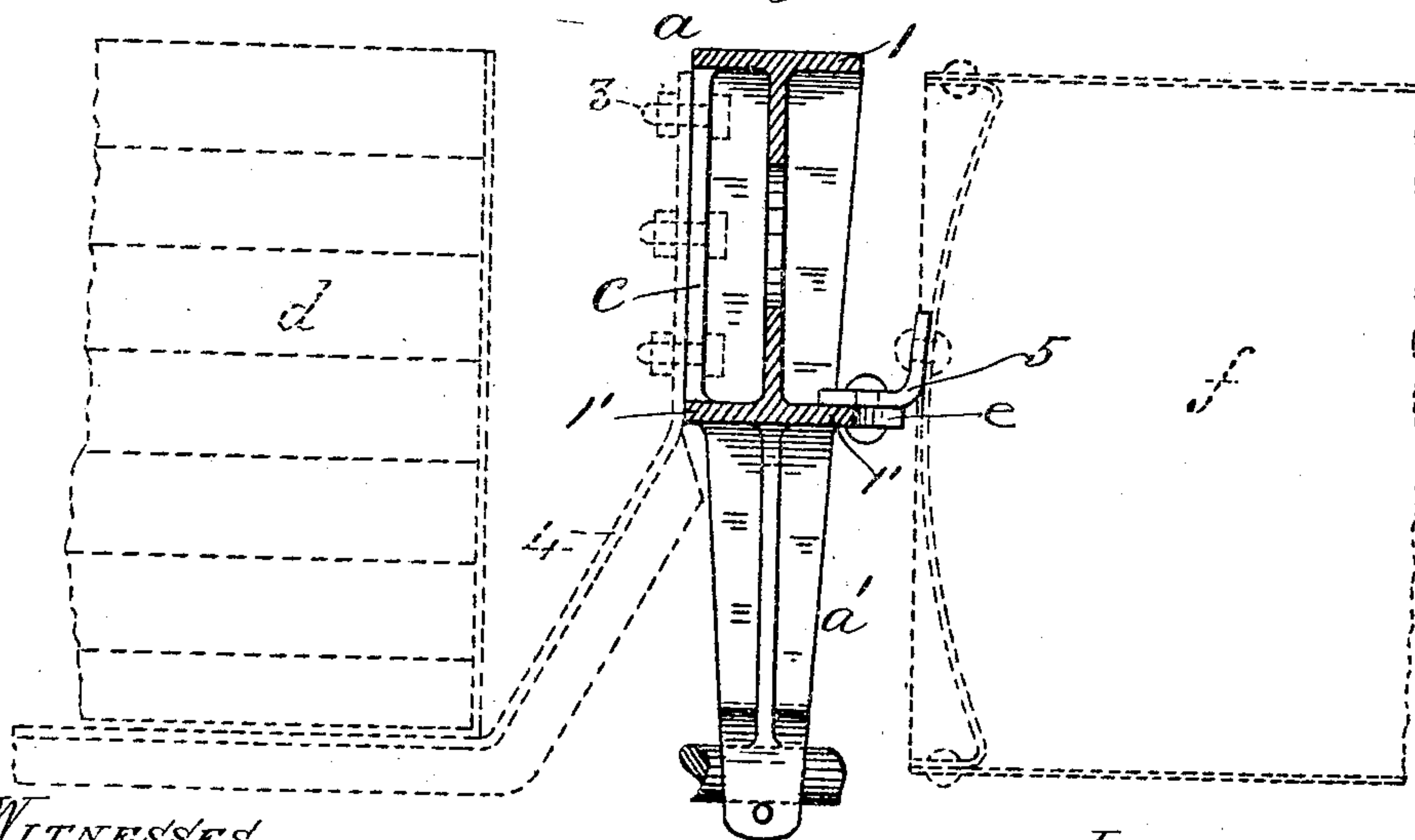


Fig. 3.



WITNESSES
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UNITED STATES PATENT OFFICE.

CHARLES F. FREDE, OF ST. LOUIS, MISSOURI, ASSIGNOR TO CAST STEEL NEEDLE BEAM COMPANY, OF ST. LOUIS, MISSOURI, A CORPORATION.

CAR-NEEDLE-BEAM ATTACHMENT.

No. 884,327.

Specification of Letters Patent.

Patented April 7, 1908.

Application filed December 30, 1907. Serial No. 406,678.

To all whom it may concern:

Be it known that I, CHARLES F. FREDE, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented a new and useful Car-Needle-Beam Attachment, of which the following is a specification.

My invention relates to an attachment (or attachments) for a car needle-beam, and has for its object to enable the needle-beams of a car to be braced to each other and carry the gas or water tank, battery-box, or other receptacle usually carried by the car sills.

It consists in features of novelty as hereinafter described and claimed, reference being had to the accompanying drawing forming part of this specification, whereon,

Figure 1, is a side elevation of a preferably, metallic car needle-beam having my attachment; Fig. 2, a top plan view of the needle-beam and its attachment, showing the gas or water tank and battery-box carried thereby in dotted lines, and Fig. 3, a vertical transverse section to enlarged scale through the needle-beam on line 3, 3, in Figs. 1 and 2.

Like letters and numerals of reference denote like parts in all the figures.

a represents the needle-beam, and *b* the longitudinal sills of the car underframe, to the underside of which the needle-beam *a* is fixed in the usual well-known manner. The needle-beam *a*, in the present case, is preferably, I-shaped in cross section, of cast steel integral throughout, and having the queen-posts *a'* for the truss-rods integral therewith on its underside. Or the needle-beam may be made of commercial rolled iron or pressed metal, of any suitable shape, and the queen-posts for the truss-rods either integral therewith or fixed thereto as desired.

Extending between and uniting the top and bottom flanges or members 1 and 1' respectively, on one side of the needle-beam *a*, are formed preferably, two spaced apart upright webs or brackets *c* which are of suitable width and thickness and formed transversely therethrough respectively, with suitably ar-

ranged holes 2 for the passage of bolts (or rivets) 3.

To each web or bracket *c* against its outer face is fixed by the bolts 3, one end of an angle, tee, channel, or other suitably shaped bar or member 4 which extends therefrom beneath, and is adapted to support the battery-box *d*, (indicated by dotted lines), the other end of the member 4 being preferably secured in like manner to the succeeding needle-beam of the car, whereby the needle-beams are firmly braced to each other.

The bottom flange or member 1' at the other side of the needle-beam *a* is preferably, formed with one or more extended portions or horizontal brackets *e*, on which is riveted an angle-iron 5 having its outer leg riveted or otherwise fixed to one end of the gas or water tank *f* (indicated by dotted lines) which is similarly secured at its other end and serves as a brace to the succeeding needle-beam of the car. Or in lieu of the upright webs or brackets *c* and horizontal extensions or brackets *e* as above described, any suitably shaped equivalent member or attachment to the needle-beam may be used for the purpose set forth according to the material, shape, and construction of the needle-beam.

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

In a car needle-beam composed of cast metal and having a queen-post integral therewith, the combination of a bracket integral with the said beam, a member extending between the said bracket and a corresponding bracket on the succeeding needle-beam, and adapted to carry a receptacle, and means for fixing the said member to the said brackets, substantially as described.

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

CHARLES F. FREDE.

Witnesses:

H. O. BELLVILLE,
C. T. WESTLAKE.