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CRADLE.

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929,927.

Patented Aug. 3, 1909.

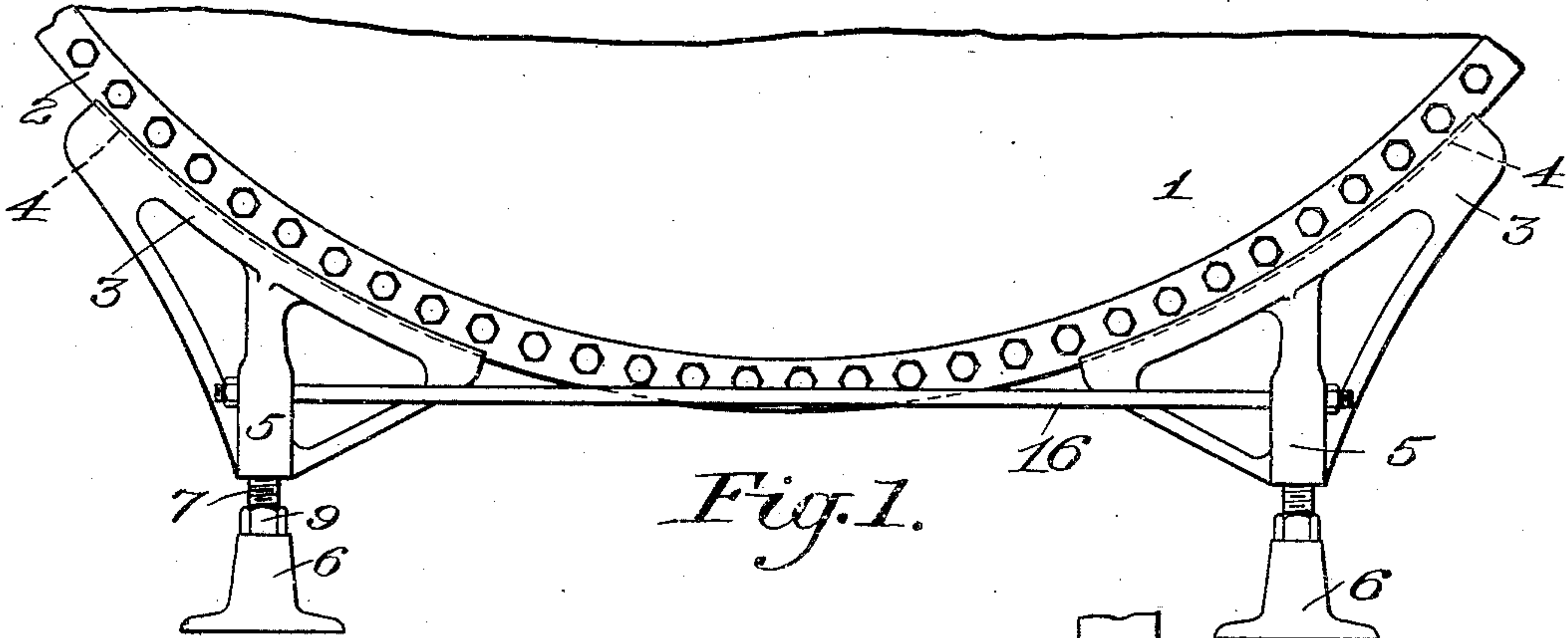


Fig. 1.

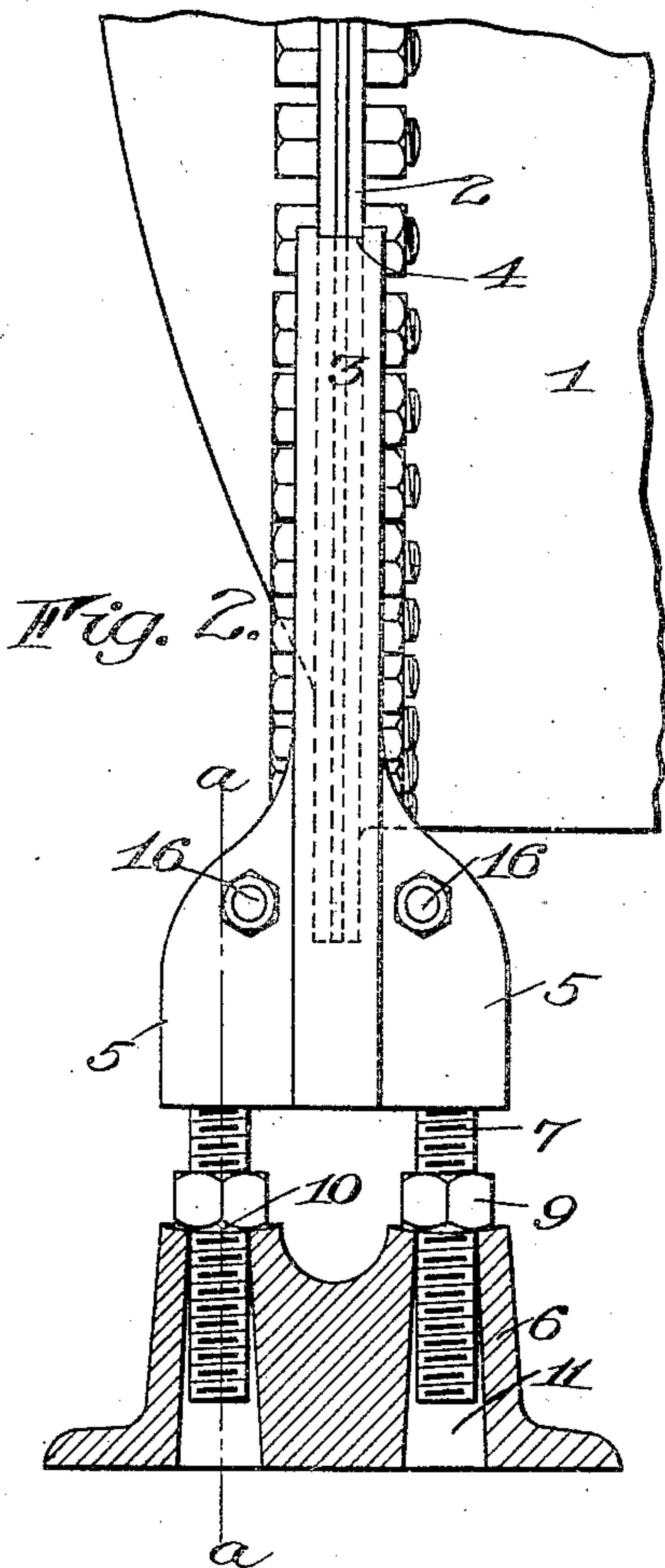


Fig. 2.

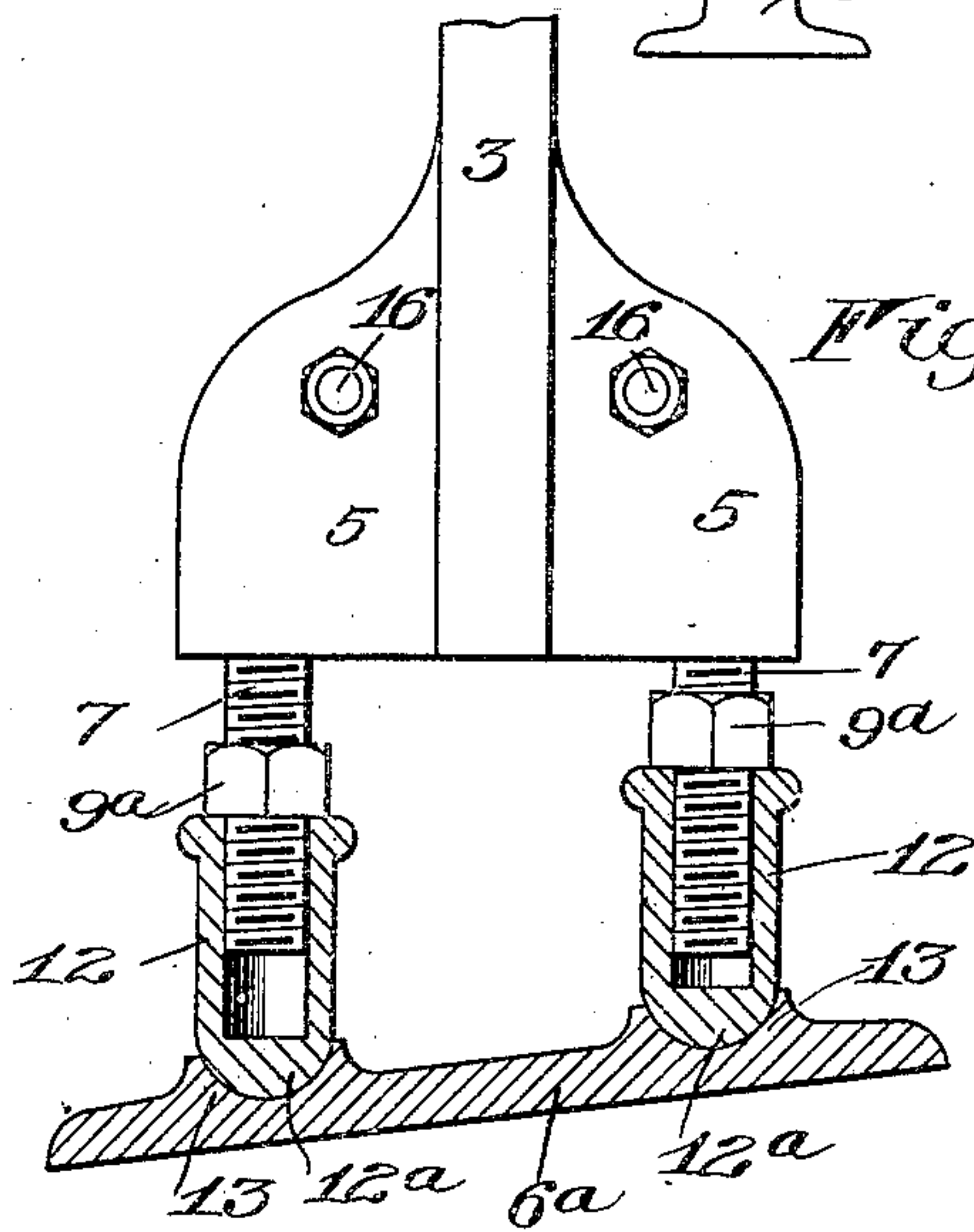


Fig. 4.

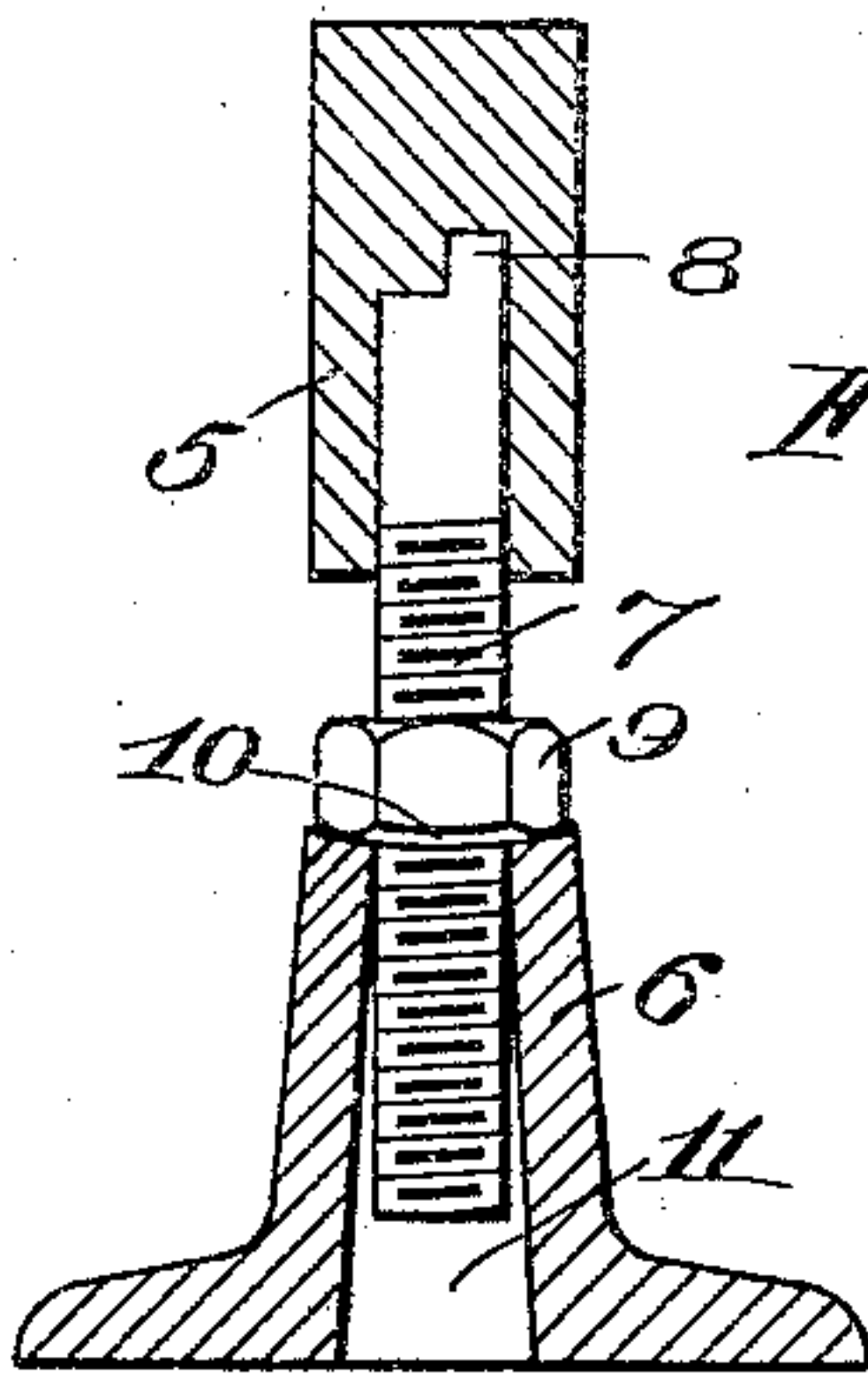


Fig. 3.

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# UNITED STATES PATENT OFFICE.

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## CRADLE.

No. 929,927.

Specification of Letters Patent.

Patented Aug. 3, 1909.

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*To all whom it may concern:*

Be it known that I, CLARENCE L. FINCH, of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Cradles; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the reference-numerals marked thereon.

The present invention, which relates to cradles or supports for vats, tanks and the like, has for an object to provide a construction which will support a tank upon a level or on an uneven surface.

To these and other ends the invention consists in certain improvements and combinations and arrangements of parts that will be hereinafter more fully described, the novel features being pointed out in the claims at the end of this specification.

In the drawings: Figure 1 represents a portion of a vat in end elevation showing one embodiment of my invention; Fig. 2 represents a portion of the vat in side elevation, the base of the supporting device shown in Fig. 1, being illustrated in section; Fig. 3 represents a section on line *a-a* Fig. 2; and Fig. 4 represents a portion of another embodiment of the invention, parts being shown in vertical section.

The invention is in the present instance shown as constructed for use on horizontally arranged vats or tanks 1 provided with annular ribs 2 formed by seams which unite the sections from which the vat is built. The vat engaging element preferably engages one of these ribs, as this portion of the vat is stronger than between the ribs, and therefore better able to support the weight of the vat and its contents. This element may comprise two members adjustably connected together, each of the members being formed of a frame 3 having a curved vat engaging face 4 arranged at the bottom of a groove which receives the rib 2, ribs 5 extending laterally from opposite sides of the frame 3. The adjustment between the members may be effected by two tie rods 16 which are arranged on opposite sides of the frame and connected to the ribs 5, the latter being provided with horizontal openings through which the tie rods pass. The vat engaging element is adjustably supported

on a plurality of bases 6, one base being provided for each member of the vat engaging element, and one or more adjusting devices preferably two, connecting each base with the vat engaging element and being rockingly supported on the base. In the embodiment shown in Figs. 1 to 3 each adjusting device comprises a depending screw 7 secured to one of the ribs 5 as by fitting in a socket therein and held against turning by an eccentric projection 8. On this screw 7 turns a nut 9 having its lower surface 10 convex and resting on a concave seat formed in the base about a vertical opening 11 in the latter, the opening 11 being tapered toward its upper end in order to permit the lateral movement of the lower end of the screw, due to the rocking of the adjusting device. As shown in Fig. 4, the adjustable supporting devices, each comprise in addition to the screw 7 and nut 9<sup>a</sup>, a socket piece 12 the lower convex end 12<sup>a</sup> of which rests in a concave seat 13 in the base 6<sup>a</sup>. When two or more adjusting devices are employed for each base they should be arranged transversely of the cradle so that they will extend longitudinally of the vat and in this manner prevent the cradle from tilting sideways when for any cause there is a tendency for the vat to move longitudinally.

In operation a number of these cradles are set in parallel relation in position to receive the vat which is then lowered onto them and the members of the vat engaging element are adjusted so that the ribs lie snugly in the grooves. The supporting devices are then adjusted so that the two members of the vat engaging element lie in the same plane.

With a cradle constructed in accordance with this invention, it is possible to provide a rigid support for vats, tanks and the like on any kind of surface, and the adjustments are such that a snug engagement of the cradle with the vat is secured.

What is claimed is:

1. In a cradle or support for vats, tanks or the like, the combination with a vat engaging element, of a plurality of bases, and a plurality of independently adjustable rigid supporting devices rockingly supported on each base and secured to the vat engaging element.

2. In a cradle or support for vats, tanks or the like, the combination with a vat en-



gaging element, comprising two members having curved engaging faces, means for adjusting said members toward and from each other, of a plurality of bases, and a plurality of independently adjustable rigid supporting devices rockingly supported on each base and secured to the vat engaging element.

3. In a cradle or support for vats, tanks and the like, the combination with a vat engaging element, of a plurality of bases, and a plurality of independently adjustable rigid supporting devices connecting each base and the vat engaging element and arranged in a line transverse to the cradle.

4. In a cradle or support for vats, tanks or the like, the combination with two frames formed with curved grooves in their upper faces, of ribs arranged on opposite sides of the frames, tie rods arranged on opposite sides of the frames and connecting the ribs on both members, a pair of bases, and a pair of independently adjustable supporting devices connecting the ribs of each member and a base.

5. In a cradle or support for vats, tanks or the like, the combination with two members having curved grooved faces and arranged to cooperate with the vat or tank on opposite sides of the central vertical longitudinal plane through the said vat or tank, of a pair of independently adjustable tie rods arranged on opposite sides of and connected to both members, and independently adjustable supporting devices for said members.

6. A cradle or support for vats, tanks

or the like, comprising two members having curved grooved faces and arranged to cooperate with the vat or tank on opposite sides of the central vertical longitudinal plane through said vat or tank, and a pair of devices adjustably connecting the members to shift them relatively to each other in a lateral direction.

7. In a cradle or support for vats, tanks or the like, the combination with a pair of members having curved vat engaging faces and ribs arranged on opposite sides thereof, of tie rods connecting the ribs of one member with those of the other, a pair of bases one for each member, and a pair of independently adjustable supporting devices for connecting each base with a vat engaging member and rockingly supported on its base.

8. In a cradle or support for vats, tanks or the like, the combination with two frames formed with grooved upper faces and arranged to cooperate with a vat or tank on opposite sides of the central vertical longitudinal plane through said vat or tank, of ribs arranged on opposite sides of the frame, tie rods arranged on opposite sides of the frame and connecting the ribs on both of said members, and a supporting device connected to each rib, the supporting devices of each frame being arranged in a line transverse to the cradle.

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