

No. 798,109.

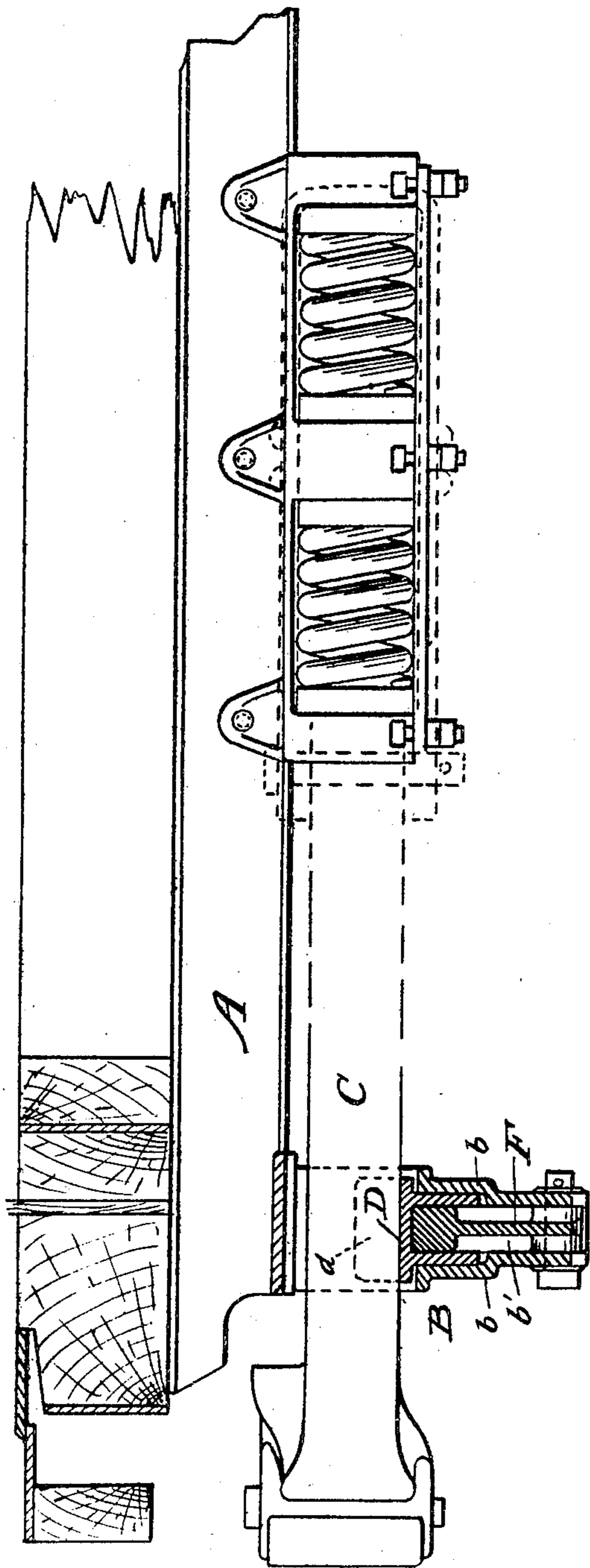
PATENTED AUG. 29, 1905.

J. F. O'CONNOR.

DRAW BAR CENTERING DEVICE FOR RAILWAY CARS.

APPLICATION FILED JUNE 2, 1905.

2 SHEETS—SHEET 1.



Witness
J. B. Townsend
Pearl Abrams.

FIG. 1.

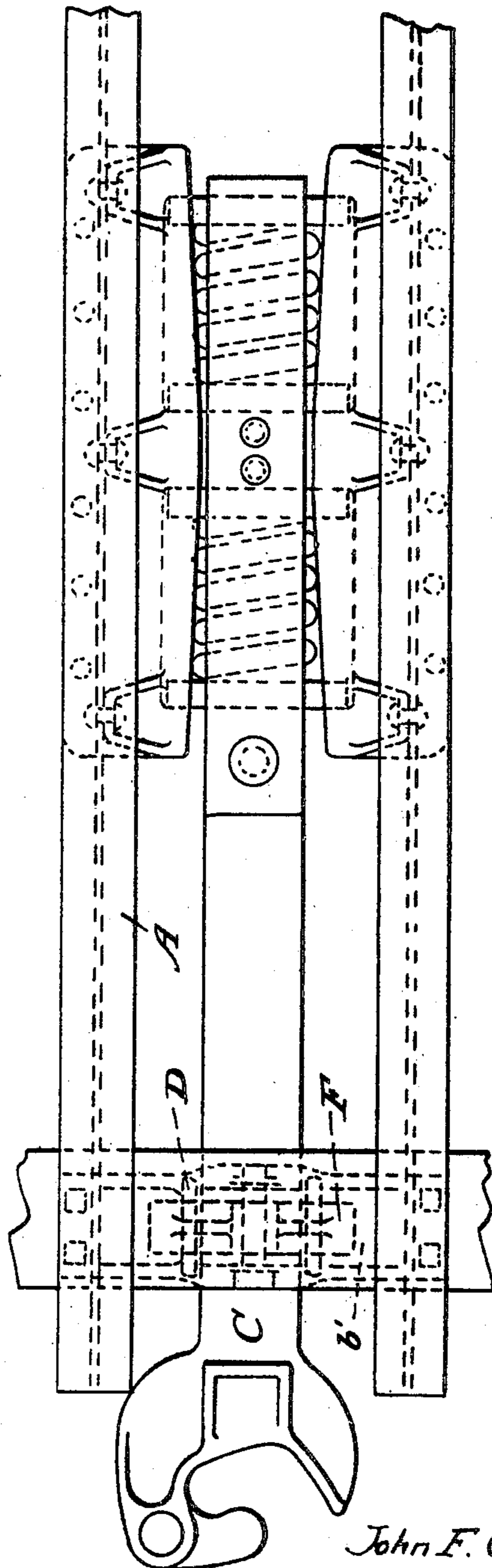


FIG. 2.

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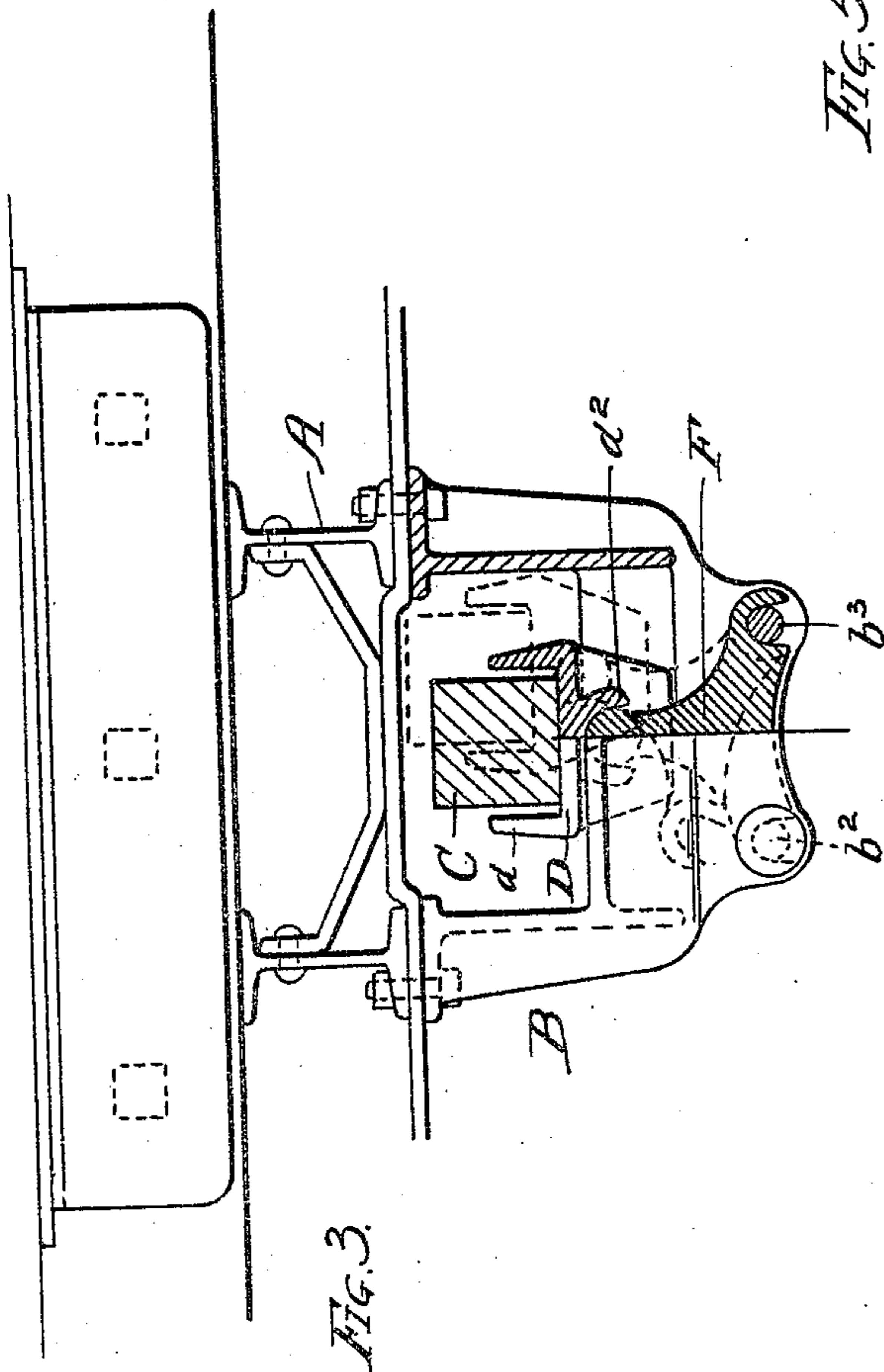


FIG. 3.

FIG. 5.

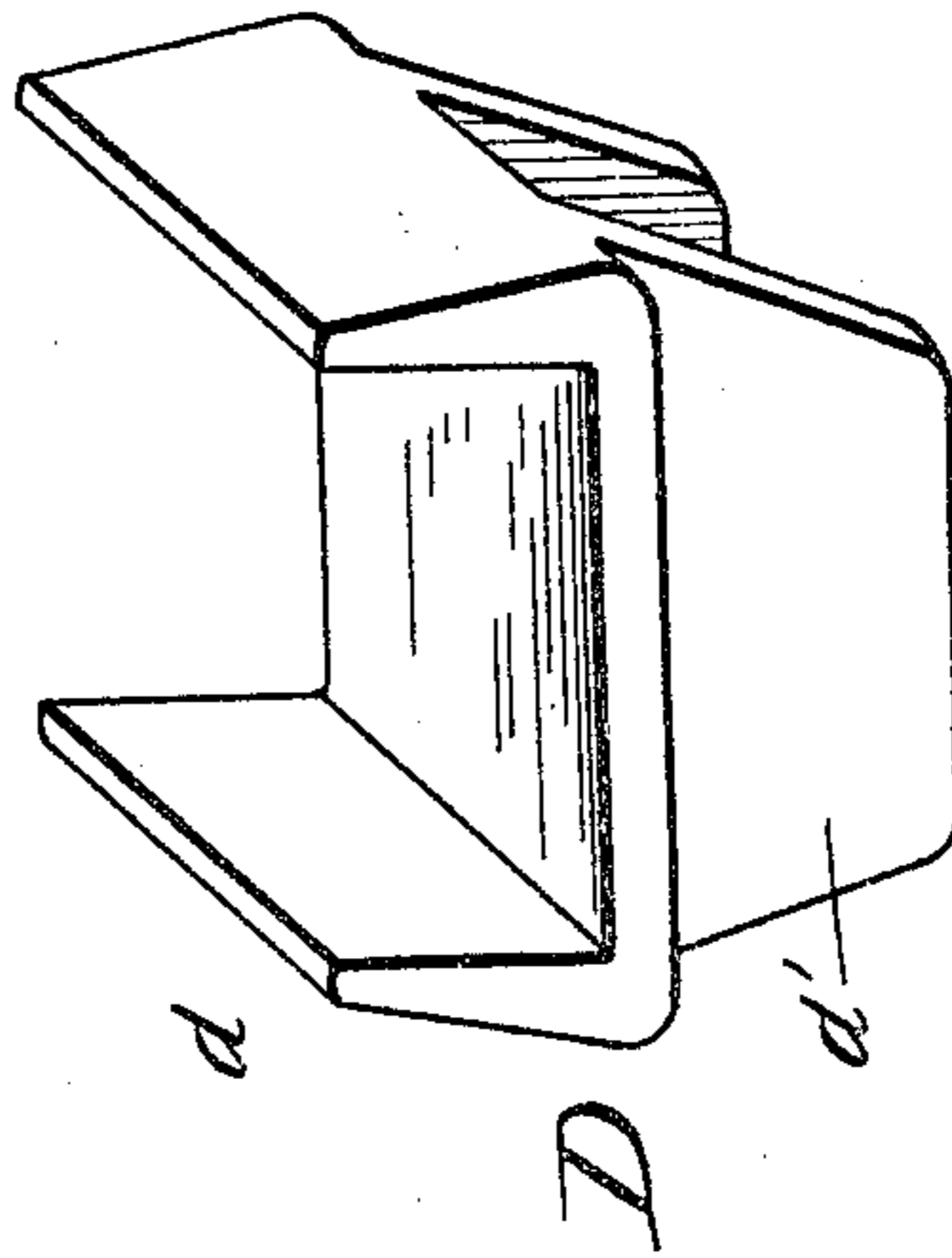
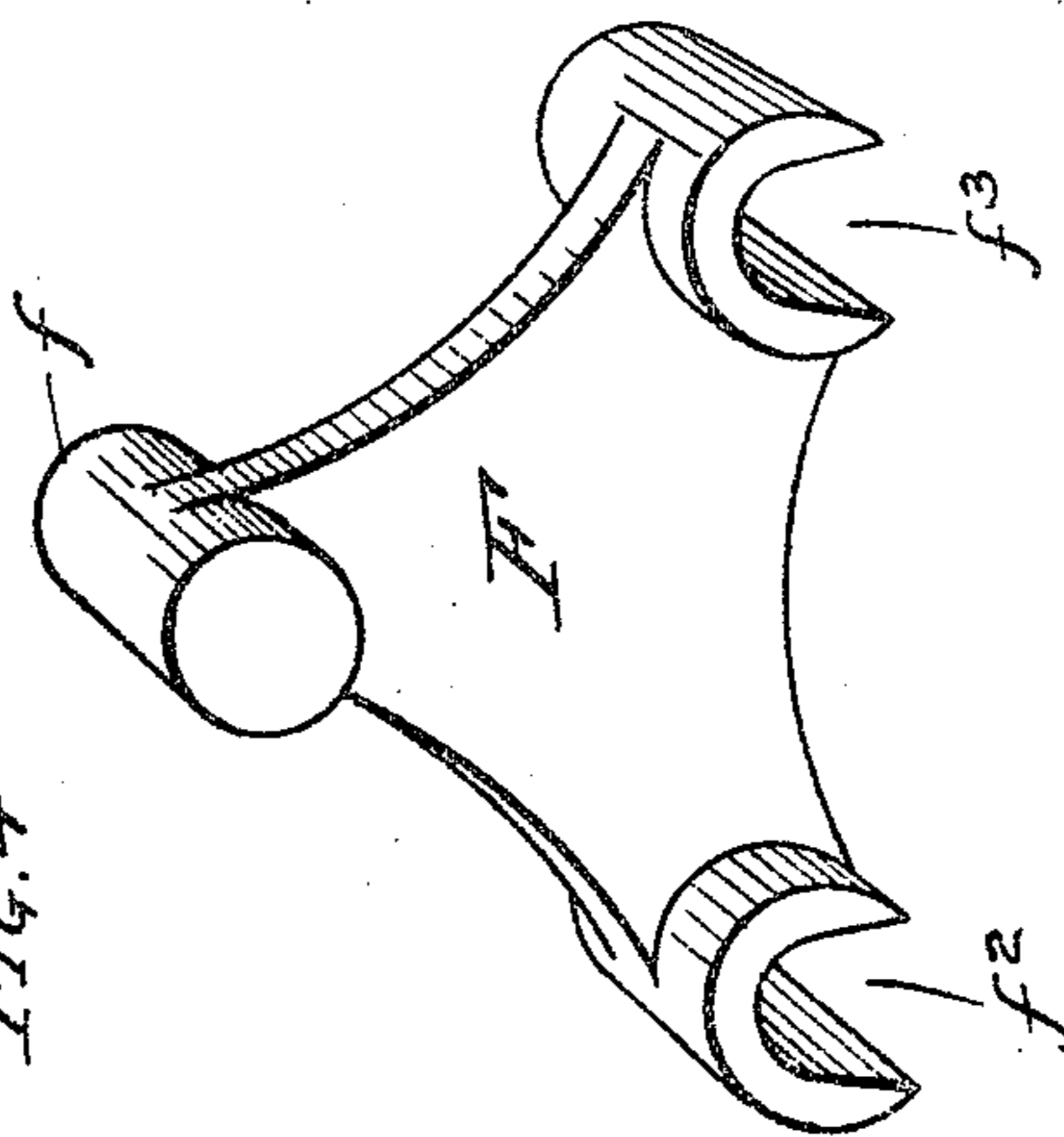


FIG. 4.



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UNITED STATES PATENT OFFICE.

JOHN F. O'CONNOR, OF CHICAGO, ILLINOIS, ASSIGNOR TO W. H. MINER COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

DRAW-BAR-CENTERING DEVICE FOR RAILWAY-CARS.

No. 793,109.

Specification of Letters Patent.

Patented Aug. 29, 1905.

Application filed June 2, 1905. Serial No. 263,362.

To all whom it may concern:

Be it known that I, JOHN F. O'CONNOR, a citizen of the United States, residing in Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Draw-Bar-Centering Devices for Railway-Cars, of which the following is a specification.

My invention relates to improvements in draw-bar-centering devices for railway-cars.

The object of my invention is to provide a gravity-acting draw-bar-centering device of a simple and durable construction which will be efficient in operation and which may be readily applied.

My invention consists in the means I employ to practically accomplish this object or result—that is to say, it consists, in connection with a coupler draw-bar and a strap or support therefor, of a draw-bar saddle furnished with a central bearing for a gravity rocker-centering device and a double or two-armed gravity rocker-centering device having a pivotal bearing at each of its arms on the draw-bar strap or support, so that when the draw-bar swings to either side it will be slightly raised by the double rocker-centering device, and thus caused to automatically return to its central or normal position by its own gravity.

My invention also consists in the novel construction of parts and devices and in the novel combinations of parts and devices herein shown or described.

In the accompanying drawings, forming a part of this specification, Figure 1 is a side elevation, partly in vertical section, of a device embodying my invention. Fig. 2 is a plan view. Fig. 3 is a front elevation, partly in vertical cross-section. Fig. 4 is a perspective view of my double or two-armed rocker-centering device, and Fig. 5 is a perspective view of the draw-bar saddle.

In the drawings, A represents a portion of the framework of a car; B, the draw-bar support; C, the draw-bar; D, the draw-bar saddle, and F the double or two-armed gravity rocker-centering device. The draw-bar support B is preferably of cast metal and composed of two integral plates or webs b to afford a space or chamber b' between them to receive the two-armed gravity centering device F and the draw-bar saddle D. The draw-bar saddle D is furnished with upright flanges

d , fitting one on each side of the draw-bar, and with depending flanges d' at right angles to the flanges d and which fit between the sides or webs b of the draw-bar support B, and between which fit the upper end of the two-armed gravity centering device F. The draw-bar saddle D is further provided with a semicircular pivotal bearing d^2 to receive the pivot-stud f at the upper end of the two-armed gravity draw-bar-centering device F. The gravity centering device F is preferably of substantially triangular form and is provided with two pivot-bearings f^2 f^3 at its lower corners or arms, which turn upon pivot-pins b^2 b^3 , which extend between the flanges or webs b of the draw-bar support B. The rocker-centering device F thus has a double pivotal connection with the draw-bar support B, one serving as the pivot of the rocker-centering device when the draw-bar swings to one side and the other as its pivot when the draw-bar swings to the other side, so that when the draw-bar swings in either direction it will be slightly raised by reason of the fact that each of its pivotal bearings is to one side of the center of the draw-bar when it is in its central position.

My draw-bar-centering device is thus of very simple construction and its parts very readily assembled, as the pivot-bearing on the saddle for the centering device F may be of a simple semicircular or U shape, and the pivotal open bearings f^2 f^3 of the centering device on the support B may likewise be of a simple semicircular or U shape, as illustrated in the drawings.

I claim—

1. The combination with the draw-bar, draw-bar saddle and draw-bar support, of a double or two-armed gravity draw-bar-centering device having a pivotal connection at its upper end with the draw-bar saddle, and a pivotal connection at each of its two lower arms with said draw-bar support to enable it to rock to either side and cause the draw-bar to be lifted when it swings to either side and automatically return to position by gravity, substantially as specified.

2. The combination with a draw-bar saddle having upwardly-projecting flanges embracing the draw-bar, and downwardly-projecting flanges or webs and a pivot-bearing, a draw-bar support having a pair of webs, a pair of pivot-pins extending between said webs, and

a double or two-armed gravity draw-bar-centering device having a pivotal connection at its upper end with the draw-bar saddle, and a pivotal connection in each of its two lower
5 arms with the draw-bar support, substantially as specified.

3. The combination with a draw-bar saddle, of a draw-bar support and a two-armed piv-

otal gravity draw-bar-centering device having a double pivotal connection with said support, 10 and a pivotal connection with said saddle, substantially as specified.

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Witnesses:

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