

No. 767,147.

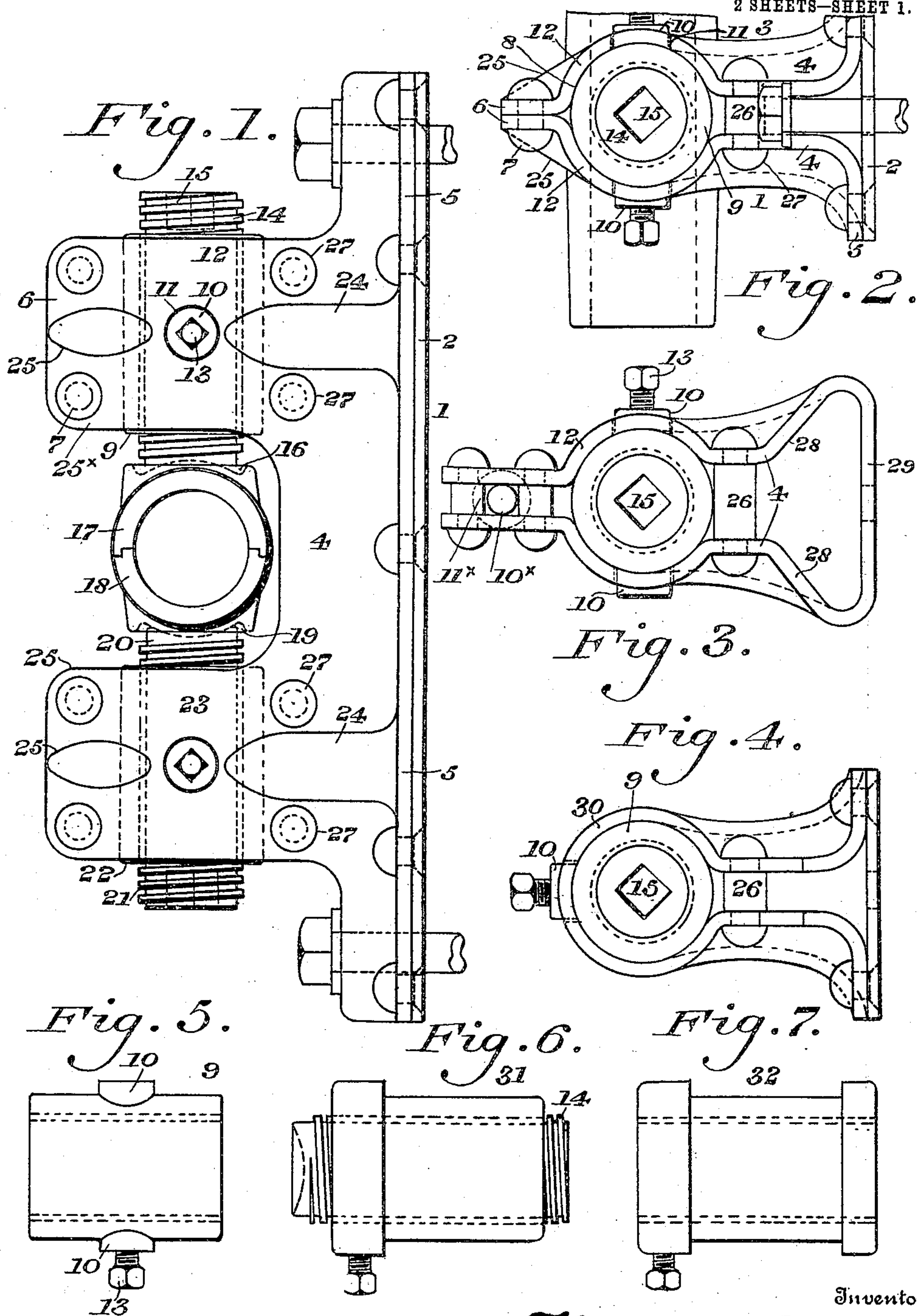
PATENTED AUG. 9, 1904.

H. T. HALLOWELL.
SHAFT HANGER.

APPLICATION FILED MAR. 27, 1901.

NO MODEL.

2 SHEETS—SHEET 1.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 8.

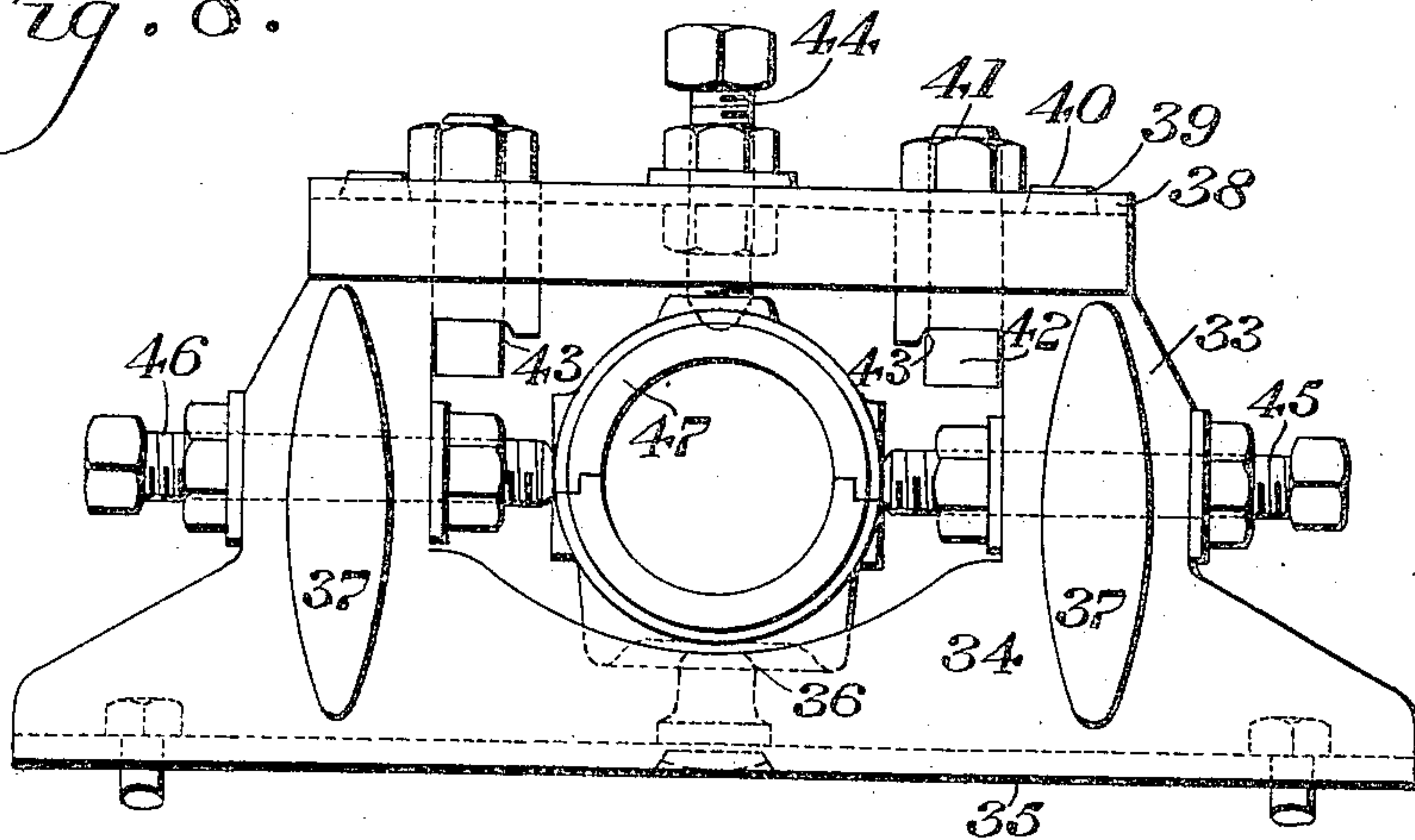


Fig. 9.

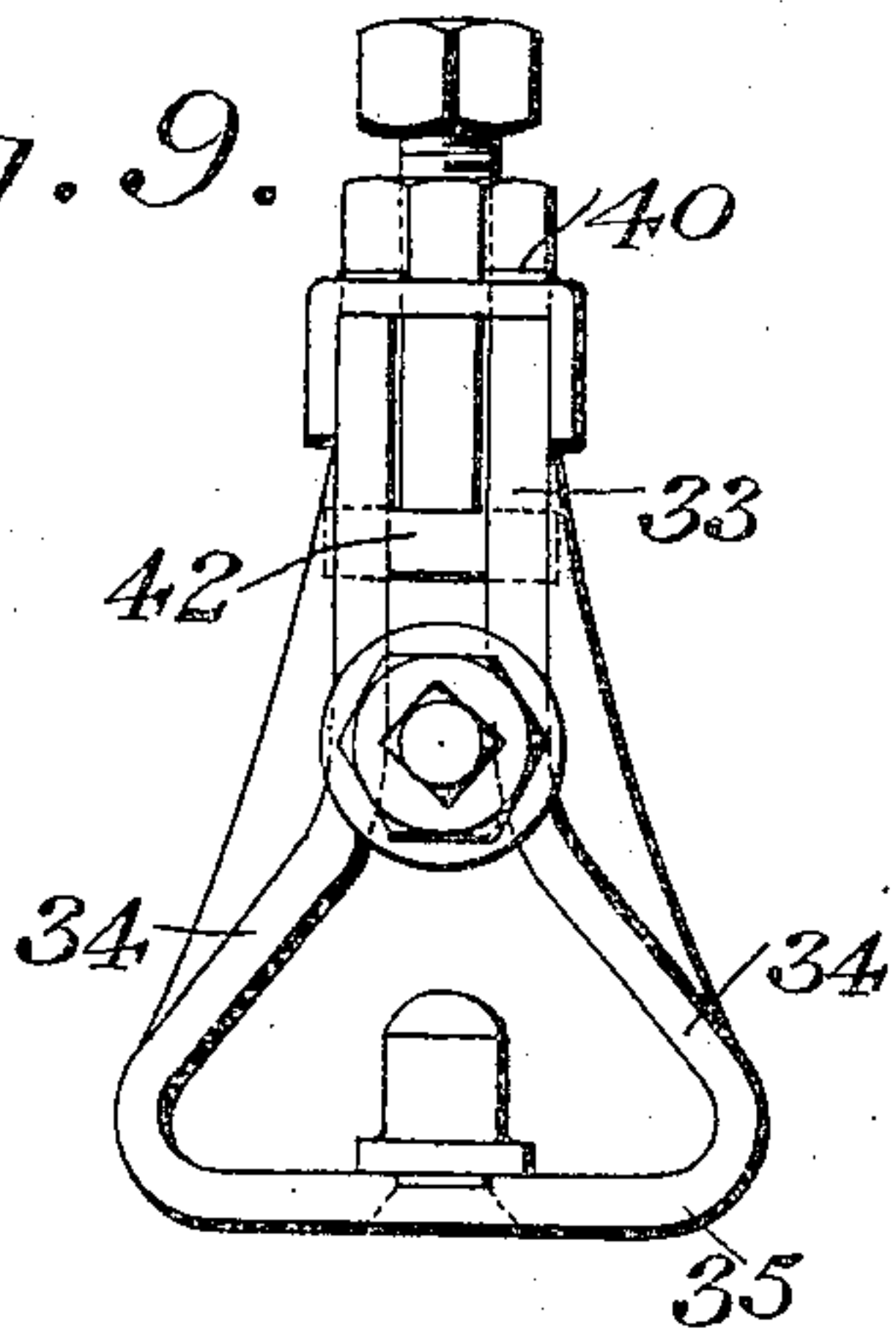


Fig. 10.

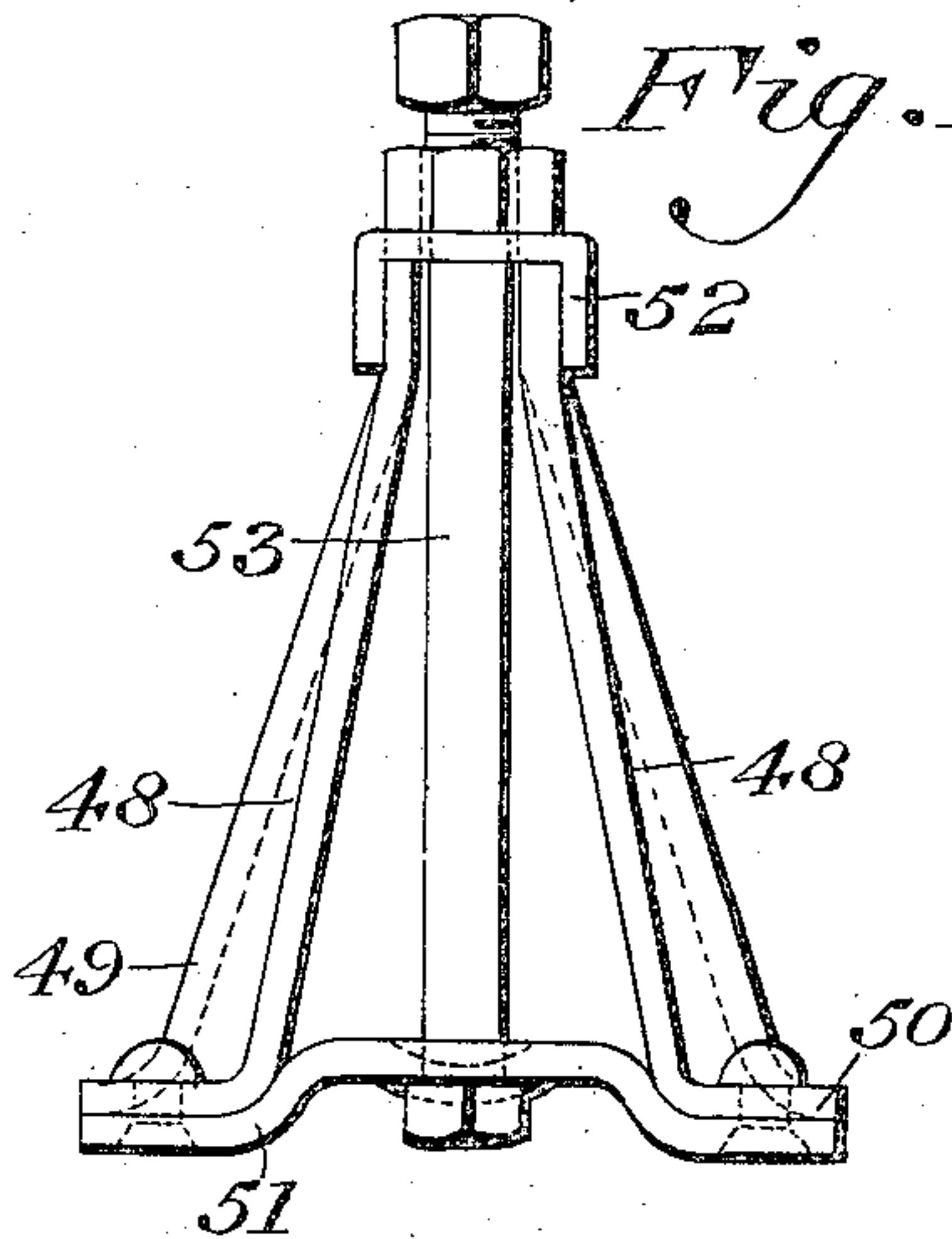


Fig. 11.

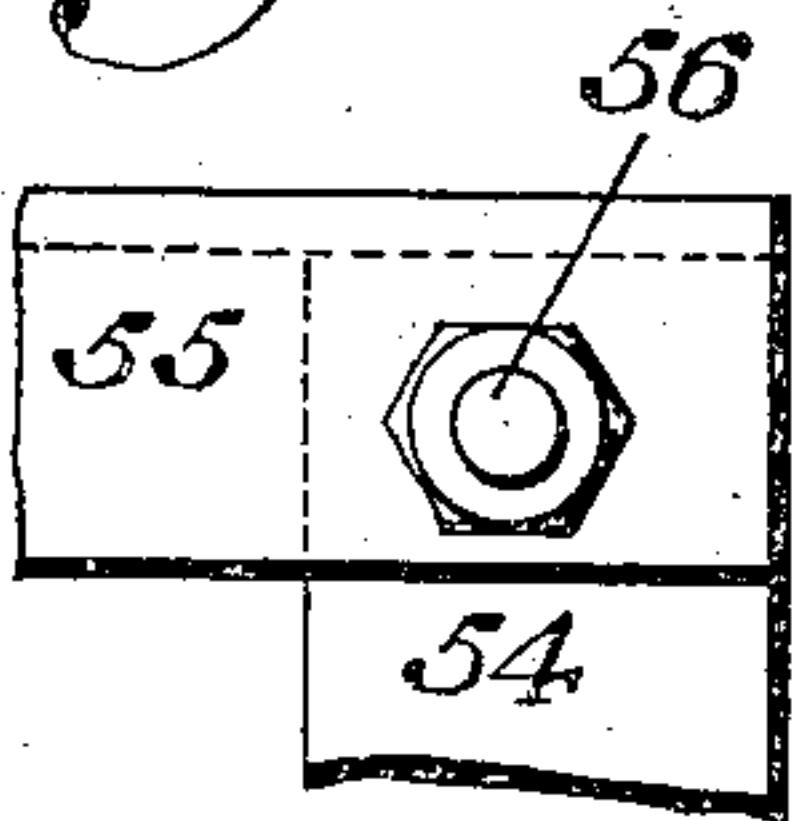


Fig. 12.

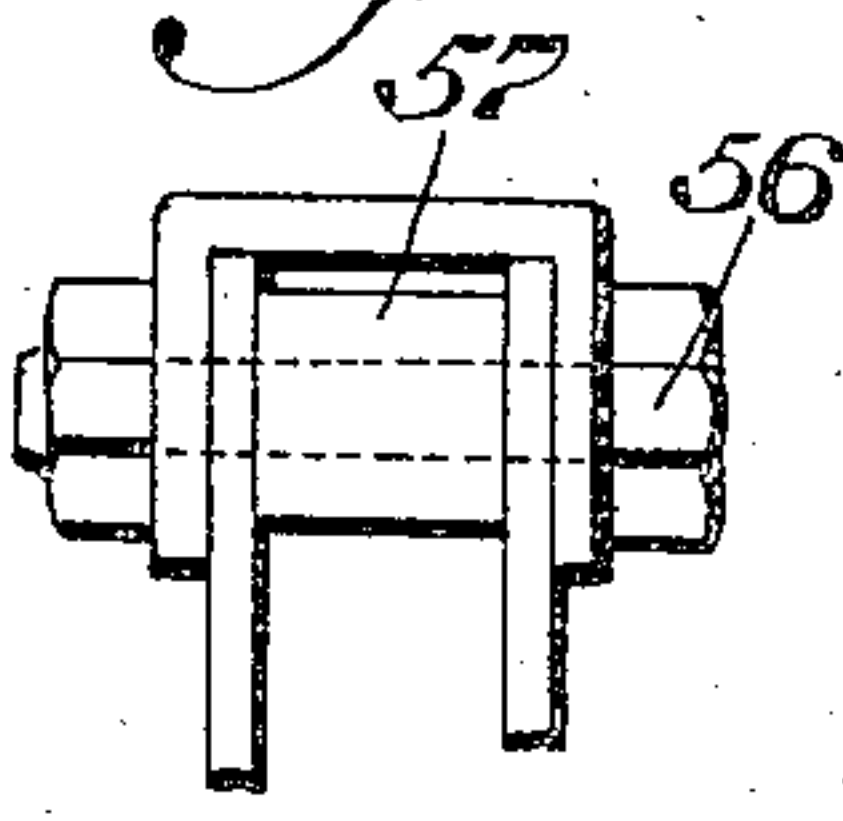


Fig. 13.

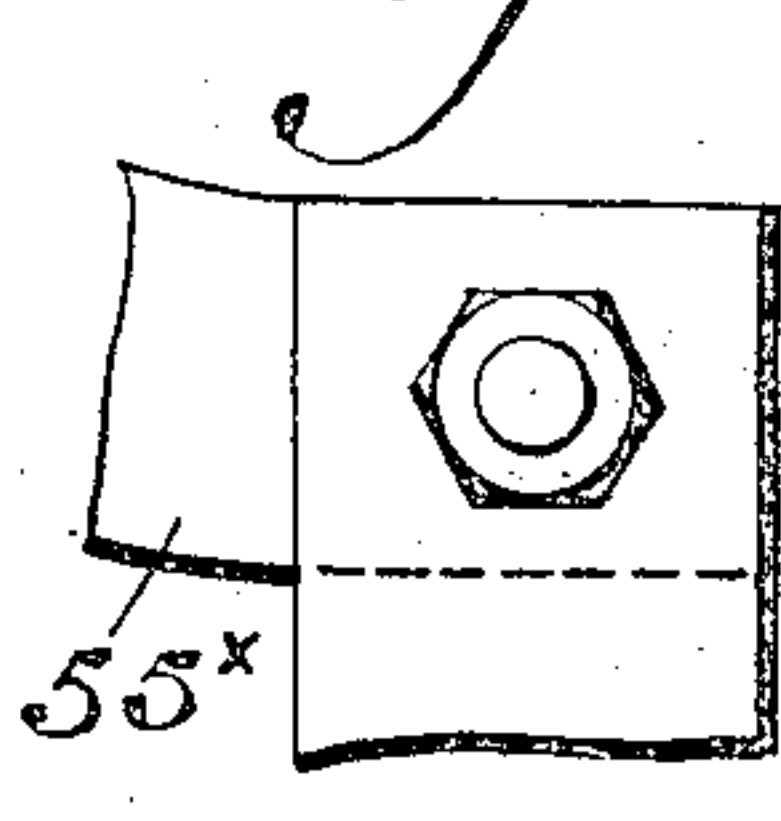
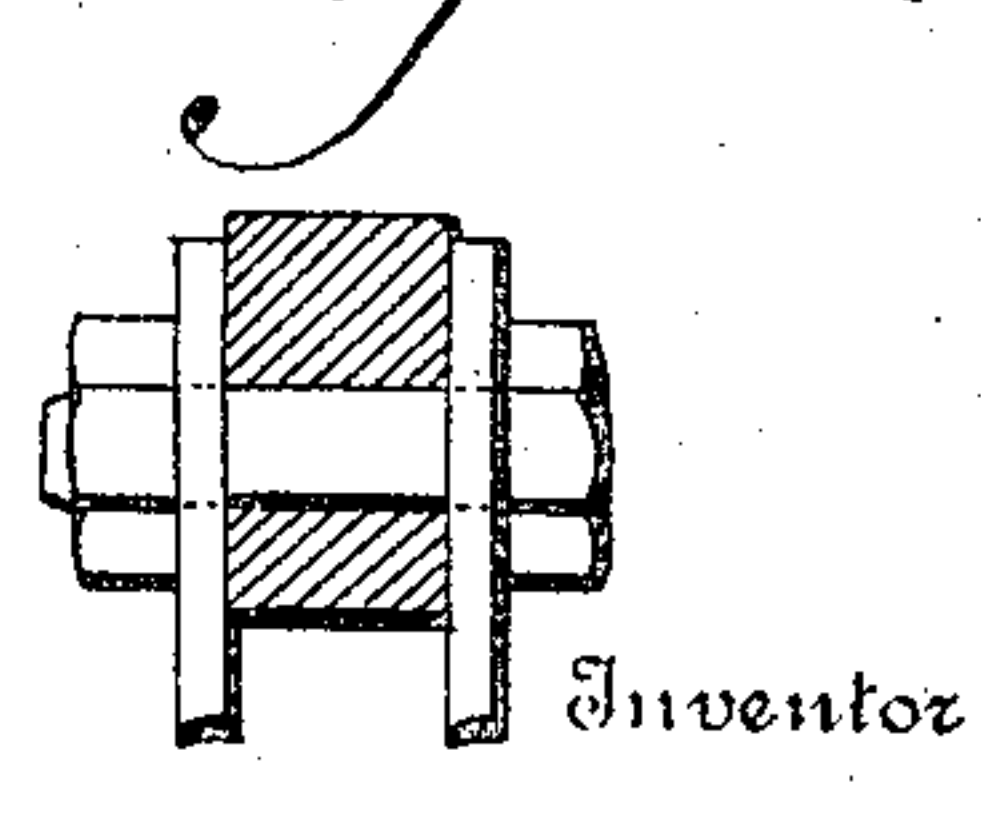


Fig. 14.



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UNITED STATES PATENT OFFICE.

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SHAFT-HANGER.

SPECIFICATION forming part of Letters Patent No. 767,147, dated August 9, 1904.

Application filed March 27, 1901. Serial No. 53,024. (No model.)

To all whom it may concern:

Be it known that I, HOWARD T. HALLOWELL, a citizen of the United States, residing at Davis Grove, in the county of Montgomery, State of Pennsylvania, have invented a new and useful Improvement in Shaft-Hangers, of which the following is a specification.

My invention relates to shaft-hangers, but consists more especially of improvements in that class of devices known as "post-hangers" and "ball-and-socket pillow-blocks," whereby a cheap, practical, and durable structure for the purpose intended is attained.

To the above ends my invention consists of novel details of construction, all as will be hereinafter fully set forth, and particularly pointed out in the claims.

Figure 1 represents a side elevation of a shaft-hanger embodying my invention. Fig. 2 represents a plan view of Fig. 1. Figs. 3 and 4 represent plan views of shaft-hangers slightly different from Figs. 1 and 2. Figs. 5, 6, and 7 represent side elevations of forms of bushings which may be employed. Fig. 8 represents a side elevation of a modified construction. Fig. 9 represents an end elevation of Fig. 10. Fig. 10 represents an end elevation of a modified construction of pillow-block. Figs. 11, 12, 13, and 14 represent modified forms of my invention. In Figs. 3, 4, and 9 the box is omitted.

Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings, 1 designates a post-hanger, the same being adapted to stand in substantially the position seen in Fig. 1 and to be attached to a post or upright, said hanger consisting of the plate 2, having the legs 3 secured thereto, each consisting of the webs or body portion 4, having the feet 5, which latter are secured to said plate. The legs 3 are each continued so as to form the curved or bulged portions 12, which latter are continued so as to form the flanges 6, which are held in juxtaposition by means of the rivets or other suitable fastening devices 7, whereby the curved or other shaped recess or clamp 8 is formed, within which is received the bushing 9, which latter is provided with the bosses 10, which

project through the openings 11 of the curved walls 12, one of said bosses being provided with a threaded opening wherein is situated the set-screw 13, which latter bears against the threaded screw 14, which has in its outer extremity the polygonal-shaped socket 15, into which a suitable wrench is adapted to be inserted, so that said threaded screw can be turned according to requirements. The lower extremity of the screw 14 is adapted to engage a recess 16 in the upper half of the box, 17, the lower half, 18, of said box having a recess 19 therein, which rests upon the extremity 20 of the threaded screw 21, which is mounted in a bushing 22, which is similar to the bushing 9, already described, said bushing 22 being supported in the clamping members formed of bulged portions 23, which are similar to the portions 12, already described. In order to strengthen the hanger to the desired extent, I provide the legs thereof and the clamping members 12 and 23, respectively, with the ribs 24, which extend to the feet 5, as will be understood from Fig. 2, and said clamp members are further strengthened at their outer portions by means of the ribs 25, wherefrom it will be seen that the post-hanger above described consists of clamping members which are preferably integral with the legs 3 and adapted to support suitable bushings containing threaded screws, between the extremities of which the journal-box is supported, the body portions 4 being spaced a proper distance apart by means of the sleeves or spacing devices 26, through which pass the rivets 27.

It will be apparent that, if desired, I can dispense with the plate 2 and construct the body portion and feet of the hanger-legs substantially as seen in Fig. 3, wherein it will be apparent that the body portions 4, (seen in Fig. 2,) are continued to form diverging parts 28, which are deflected to form the base 29 of the hanger, which latter may be secured directly to the post or upright, as is evident, it being apparent that the other parts of the hanger, bushing, and their adjuncts are constructed substantially as seen in Fig. 2.

In Fig. 4 it will be apparent that I have

made the part 30, which corresponds to the clamp members 12, already described, in one piece, and I have located the boss 10 of the bushing 9 in a little different position from that seen in Figs. 2 and 3, the other details of construction remaining substantially the same.

In Fig. 5 I have shown in detail the bushing employed in the preceding figures in detached position, while in Figs. 6 and 7 I have shown slightly-modified forms of bushings 31 and 32, which can be employed without departing from the spirit of my invention.

In Figs. 8 and 9 I have shown a modified form of pillow-block wherein the sides 33 diverge at their lower portions, as at 34, and are continued to form the base 35, wherein is supported the round bearing 36, said sides being strengthened by means of the ribs 37, and the tops of said sides supporting the clamp 38, which has the openings 39 therein, through which pass the tongues 40, which project from the top of the sides 33. 41 designates bolts whose upper extremities project above the clamp 38, the lower ends of said bolts being provided with the heads 42, which are adapted to seat in the recess 43, wherefrom it will be seen that when the nuts on the bolts 41 are tightened the clamp 38 will be held rigidly in the desired position. 44 designates an upper adjusting-screw, and 45 and 46 designate the horizontal adjusting-screws which are adapted to engage the journal-box 47, said adjusting-screws being locked in the desired position by means of jam-nuts.

In the construction seen in Fig. 10 I have shown a different manner of forming the sides of the pillow-blocks 48, the latter being provided with ribs 49 and feet 50, base-plate 51, clamp 52, and bolt 53, constructed and assembled substantially as described.

Figs. 11, 12, 13, and 14 are modified forms of my invention in which I secure the clamp by bolts passing through the same horizontally at each end thereof. In Fig. 11, 54 is the frame, 55 the clamp, and 56 the bolt or fastening device for securing said clamp rigidly to the frame. In Fig. 12 the bolt 56 passes through the spacer 57, which enables the said bolt to be tightened without distorting the sides of the clamp and frame. In Figs. 13 and 14 I show means for securing the clamp 55^x to the frame of the hanger. In case said clamp 38 (shown in Fig. 8) should be made of cast-iron instead of pressed metal I might make the plates 12 continuous—that is, entirely surrounding the journal-box; but my preference is to connect the two parts 12, se-

curing the bushings 9 and 22 by a bolt or other connecting device. In this case I have shown the bolt 10^x in Fig. 3 passing between the two plates and through a filling-in piece 11^x, which is intended to be placed between the two parts 25^x, Fig. 1, and I have used a piece of pipe for a filler, the purpose of this connecting device being to secure the bushings more rigidly together.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A hanger comprising projecting arms having a plurality of plate portions and strengthening-ribs, means for securing said plate portions together, adjusting devices mounted in said plate portions, bushing having bosses thereon, set-screws in said bosses, and adjusting means located in said bushings.

2. A hanger comprising projecting arms having a plurality of plate portions and strengthening-ribs, means for securing said plate portions together, bushing having bosses thereon, set-screws in said bosses, adjusting means located in said bushings and a journal-box supported between said adjusting means.

3. A hanger comprising an opposite mating pair of sides, bushings between the mating pair, a journal-box and adjustable means for said journal-box passing through said bushings.

4. A hanger comprising a plurality of bushings, and U-shaped sides forming supports therefor in combination with a journal-box and adjusting means therefor, passing through said bushings.

5. A hanger comprising opposite bases, and mating U-shaped sides, each branch of the U being provided with a hollow longitudinal strengthening-rib intermediate its edges.

6. A hanger divided transversely of the shaft and comprising a base for attachment to a support, and opposite pairs of U-shaped arms projecting at an angle to said base and provided with longitudinally-extending hollow strengthening-ribs intermediate their edges.

7. In a hanger, a pair of U-shaped sides each comprising a base and transversely-projecting arms having hollow strengthening-ribs intermediate their edges, a journal-box, means for securing the sides together and intermediate adjusting devices.

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