

A. B. LONEY.

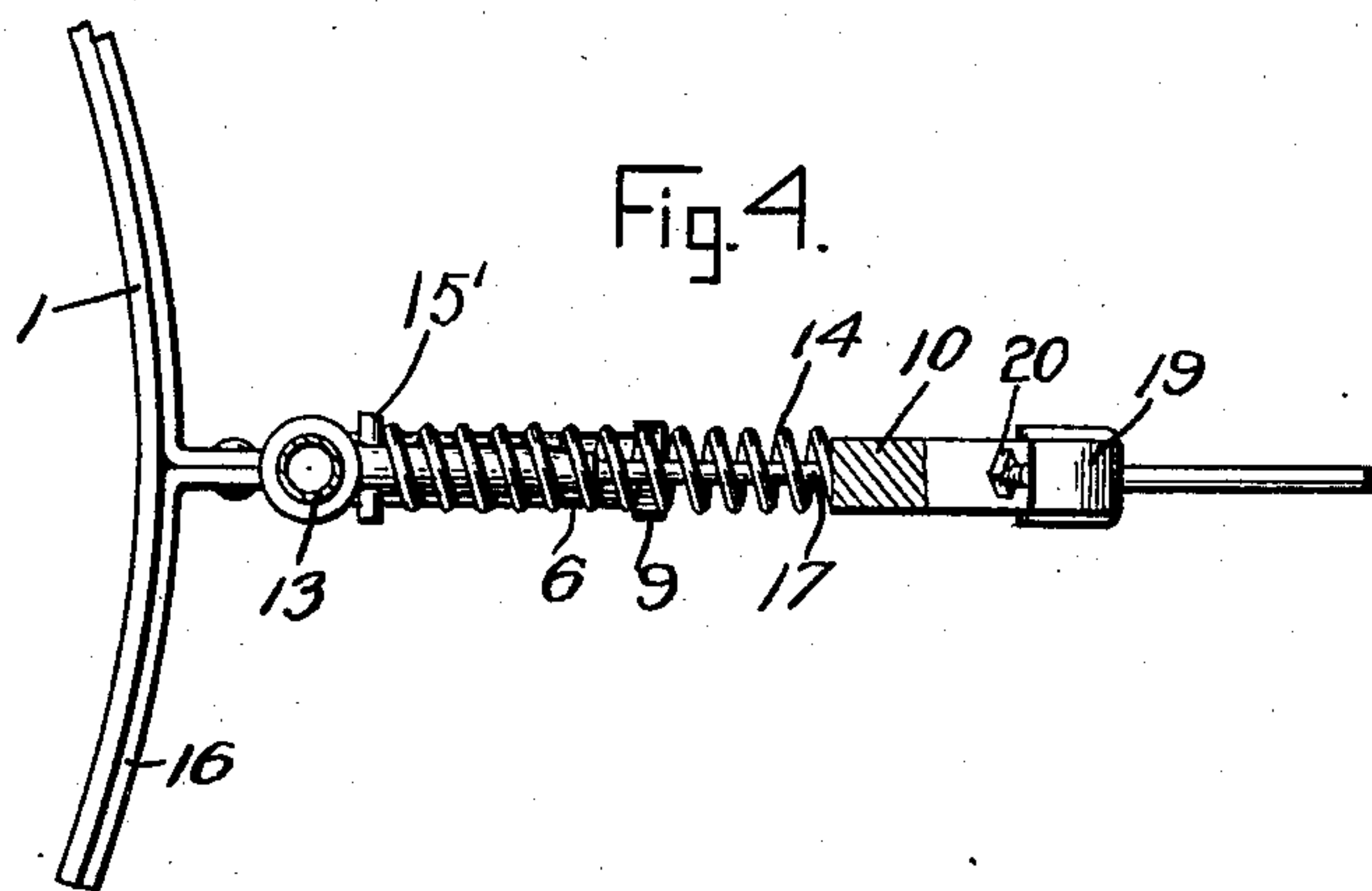
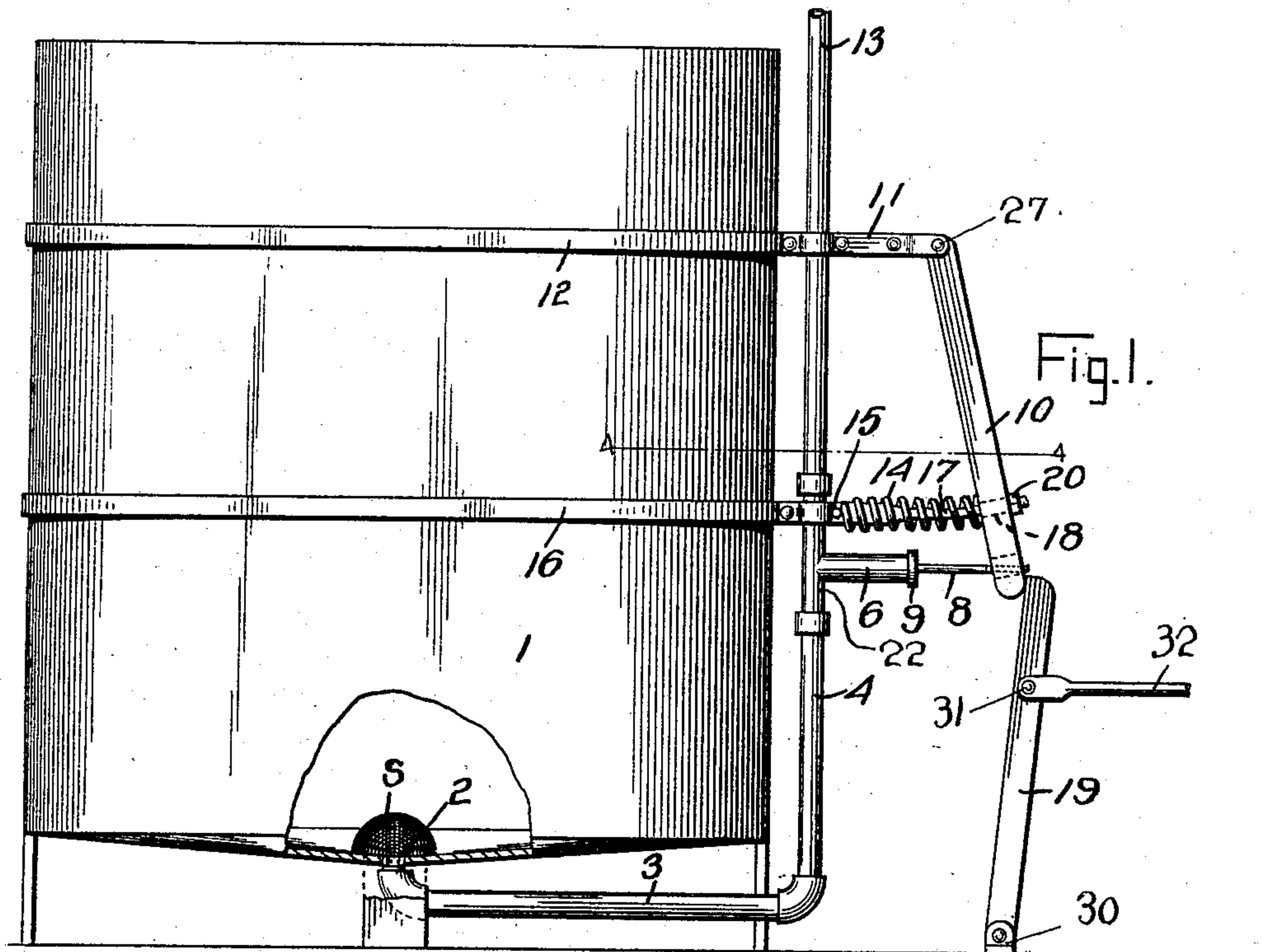
OIL PUMP.

APPLICATION FILED NOV. 26, 1907.

915,453.

Patented Mar. 16, 1909.

2 SHEETS—SHEET 1.



Witnesses
A. H. Reichenbach.
Arthur W. Grosberg.

Inventor
A. B. Loney
By *Charles L. Loney*
Attorneys

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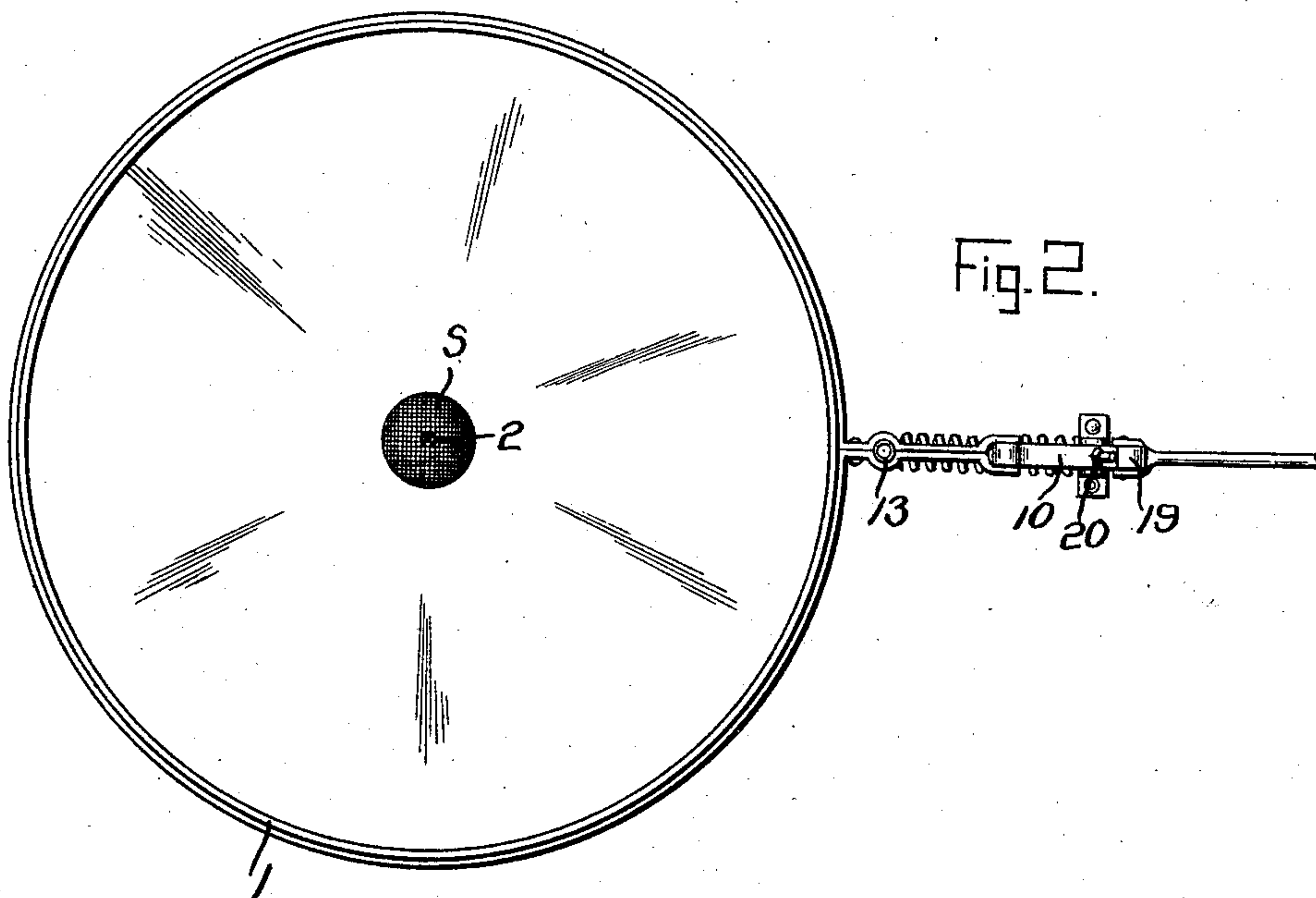


Fig. 2.

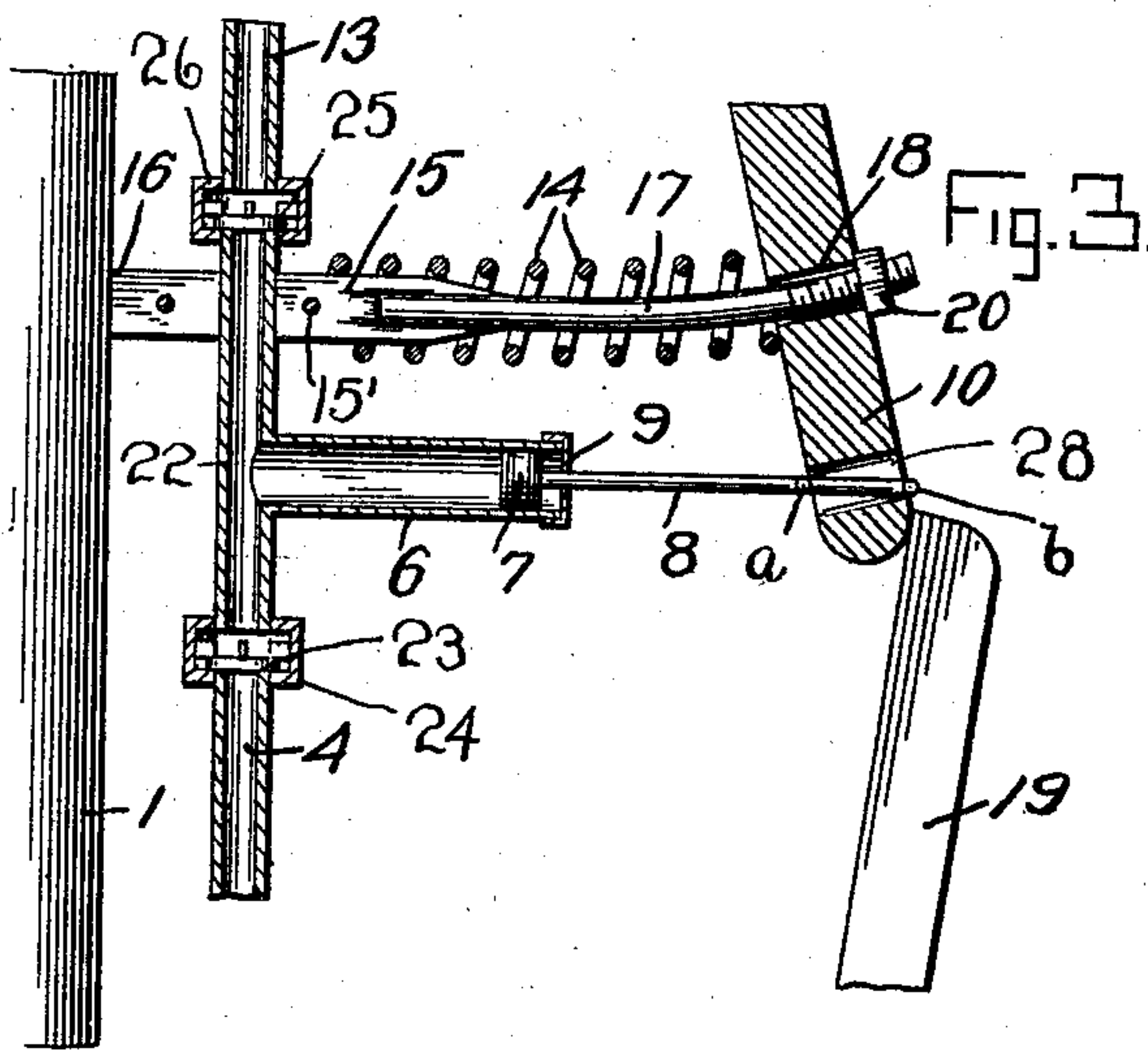


Fig. 3.

Witnesses

B. H. Reichenbach
Arthur H. Gossling

Inventor

A. B. Loney

By *Charles Chandler*

Attorneys.

UNITED STATES PATENT OFFICE.

ALFRED B. LONEY, OF SYLVIA, KANSAS.

OIL-PUMP.

No. 915,453.

Specification of Letters Patent.

Patented March 16, 1909.

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To all whom it may concern:

Be it known that I, ALFRED B. LONEY, a citizen of the United States, residing at Sylvia, in the county of Reno, State of Kansas, have invented certain new and useful Improvements in Oil-Pumps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention has relation to pumps that are suited or made applicable to oil tanks for pumping the oil out therefrom through the bottom thereof by a force-feed operation.

The nature of the invention is embodied in the means illustrated in the annexed drawings forming a part of this specification, in view of which it will first be described with respect to its construction and mode of operation and then be pointed out in the subjoined claim.

Of the said drawings—Figure 1 is a side elevation, a part being shown as broken away. Fig. 2 is a plan of the device inverted. Fig. 3 is a vertical sectional view of the valve casing and plunger tube. Fig. 4 is a detail plan taken in the plane 4 4, of Fig. 1.

Similar characters of reference designate similar parts or features, as the case may be, wherever they occur.

In carrying my improvements into effect, I support the oil-tank 1 in such manner that an outtake 2 may be made in its bottom and the oil taken therefrom through an exit pipe 3 to the pump 6. The horizontal pipe 3, by means of an elbow, is connected to the vertical pipe 4, which above enters the lower valve, of a T-shaped pump, the barrel of which is horizontally disposed, as shown in Fig. 3. The outtake 2 will be protected by a suitable strainer S, so that the oil may be properly strained when pumped out of the tank 1.

The valve casing 22 extends vertically up along one side of the tank and is provided with two check valves, one above and the other below the pump, barrel or cylinder 6. A plunger or piston 7 is adapted to operate in the cylinder 6 and is provided with a stem 8 which extends through and beyond the head 9 of said pump. The check valve 23, is held within the lower valve casing 24, while the valve 25, is held within the upper valve casing 26.

Extending from the upper valve housing 26, is the supply pipe 13, as clearly shown in Fig. 3. Secured to the supply pipe 13, by means of the bifurcated ear-forming ends of the tank hoop 12, is the pivotally held hanger 10, perforated at its upper end to receive the pin 27, by means of which the hanger is secured to the supporting ear 11. Near its lower end, this hanger has a lengthwise disposed slot 28, as shown in Fig. 3 and proximal to this slot, is a cylindrical guide opening 18.

The pump housing, and its connected pipe sections, are braced by means of the projected ends of the hoop 16, between which ends is held the flat shank 15, of a curved guide bar 17, as clearly shown in Fig. 3, which is projected through the opening 18 near the lower end of the hanger 10, the outer end of this guide bar being threaded, to receive the stop nut 20.

Interposed between the hanger 10, and a stop-pin 15', is a coil spring 14, which surrounds the guide bar 17, and normally forces the lower swinging end of the hanger, against the stop nut 20. The stem 8, of the piston 7, is extended through the slot 28, and is provided with two saddle pins *a* and *b*, between which the lower end of the hanger is held, as disclosed in Fig. 3.

To a suitable support, below the hanger 10, is secured an ear 30, which pivotally carries an upstanding rock-arm 19, which has its upper end normally in engagement with the lower end, of the piston operating hanger 10. The operation of the pump, is through the operating rod 32, connected by means of the pin 31, to the rock-arm 19. When this rod 32, is pushed to rock the arm 19, against the hanger 10, the connected piston is carried inward, closing the lower valve 23, and opening the upper valve 25, permitting an escape of oil through the supply pipe 13. The outward stroke of the piston is effected through the expansion of the spring 14, which on the inward stroke of the piston, is compressed. The lower working end of the hanger 10, is guided upon the bar 17, while the forward end of the piston stem is guided within the slot 28 of the hanger.

The device is simple of construction and positive of operation.

What is claimed is:—

The combination in a device of the character described, of a pump, a piston within

said pump, a stem projecting from said piston, an intake valve within said pump, an outlet valve within said pump, a suitably supported hanger having an opening and a slot, said piston stem working within said slot, pins to secure said stem to said hanger, a guide bar extending through said opening having a stop nut, a spring to normally force said hanger in one direction, a rock-arm in

engagement with said hanger, and means to operate said rock-arm.

In testimony whereof, I affix my signature, in presence of two witnesses.

ALFRED B. LONEY.

Witnesses:

H. S. SUTTON,
R. C. HOLMES.