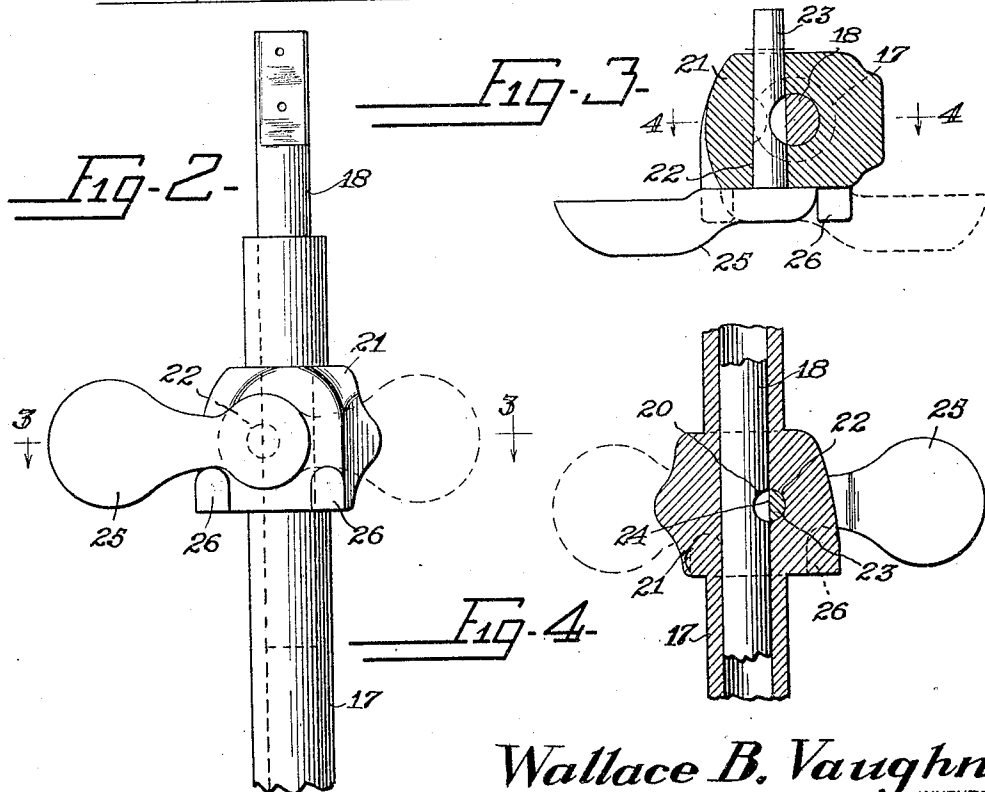
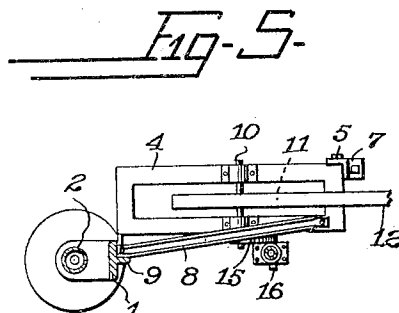
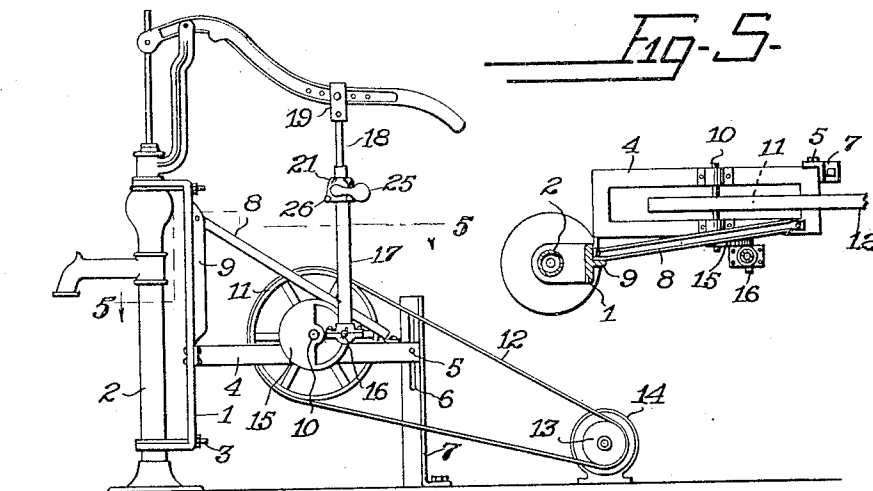


W. B. VAUGHN

PUMP JACK

Fig-1-



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WITNESS:

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PUMP JACK

Application filed November 16, 1931. Serial No. 575,405.

This invention relates to a pump jack, and its novelty resides in the features herein-after described and claimed.

An object of this invention is to provide a pump jack of simple and durable structure adapted to be attached to the body of the pump and having means connected with the handle of the pump for swinging the same, the parts being so arranged that the jack may be operated by power and at other times the handle may be manually used for operating the pump. With this object in view the jack includes a frame adapted to be connected with the body of the pump and having a foot piece which may engage the surface of the ground. A shaft is journaled upon the frame and is provided with a belt wheel over which a belt is trained. A motor is provided for moving the belt. A disc wheel is fixed to said shaft, and is provided with a wrist pin upon which a sleeve is mounted. A rod is slidable in the sleeve and provided with means for attachment to the handle of the pump. Means are provided for locking the rod with relation to the sleeve and the said means may be manipulated whereby the said parts are freed, with relation to each other so that they may move independently of each other.

In the accompanying drawing:

Figure 1 is a side elevational view of a pump, showing the pump jack applied thereto.

Figure 2 is a detailed side elevational view of the sleeve and rod of the pump jack.

Figure 3 is a transversely sectional view thereof, cut on the line 3—3 of Figure 2.

Figure 4 is a detailed sectional view cut on the line 4—4 of Figure 3.

Figure 5 is a horizontal sectional view of the pump jack, cut on the line 5—5 of Figure 1.

As illustrated in the accompanying drawing (the pump jack includes a U shaped bar (1) adapted to be connected to the body (2) of a pump by means of bolts (3). A frame

(4) is attached to the bar and is provided with a bolt (5) which is received in a slot (6) of a foot piece (7). The foot piece (7) is adapted to rest upon the surface of the ground. A brace bar (8) is connected with the outer portions of the frame (4) and a strengthening lug (9) provided upon the bar (1). Shaft (10) is journaled upon the frame (4) and carries a belt wheel (11). A belt (12) is trained around the belt wheel and also around the pulley (13) of the motor (14). A disc wheel (15) is fixed to the shaft (10) and carries the wrist pin (16). One end of the sleeve (17) is pivoted upon the wrist pin (16) and a rod (18) is received in the upper end of the sleeve (17). Yoke (19) is supported upon the upper end of the rod (18) and is connected with the handle of the pump. The rod (18) is provided with a recess (20) at its side. The sleeve (17) is provided with a head (21) having an opening (22) passing therethrough. A pin (23) is loosely mounted in the opening (22) and is provided with a recess (24) at its side which may receive the side portion of the rod (18). A handle (25) is mounted upon the pin and lugs (26) provided upon the head (21) serve as stop members for the handle (25). When the handle (25) is turned to the position as shown in heavy lines in Figure 4 of the drawing the rod (18) is free to slide within the sleeve. When the handle (25) is turned to the position shown in dotted lines in Figure 4, the pin (23) is swung into the recess (20) of the rod, whereby the rod is locked with relation to the sleeve. When the parts are locked together as described, and the shaft (10) is rotated, the sleeve and rod reciprocate, and the pump handle is swung when the sleeve and rod are disconnected from each other. The pump handle may be manually swung, and the pump may operate with the disconnecting parts of the jack.

Having described the invention, what is claimed is:—

A pump jack comprising a frame, means
for connecting the frame with the body of the
pump, a foot piece attached to the frame, a
shaft journaled upon the frame, a disc wheel
5 fixed to the shaft and mounted on a wrist pin,
a sleeve journaled upon said pin, a rod re-
siding within the sleeve and having means
for attachment with the handle of the pump
and means for locking the sleeve to the rod.

10 In testimony whereof I affix my signature.
WALLACE B. VAUGHN.

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