No. 724,692. PATENTED APR. 7, 1903.

J. B. GLOVER.

OIL DISTRIBUTER.

APPLICATION FILED JUNE 21, 1902

NO MODEL.

Fig. 4.

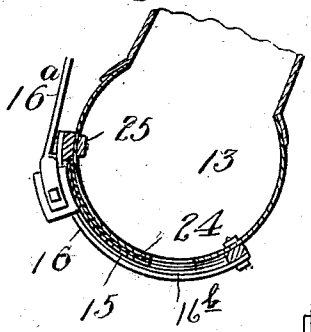


Fig. 3.

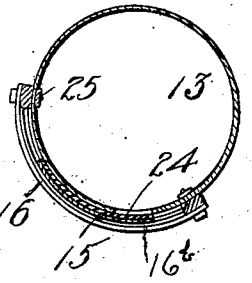
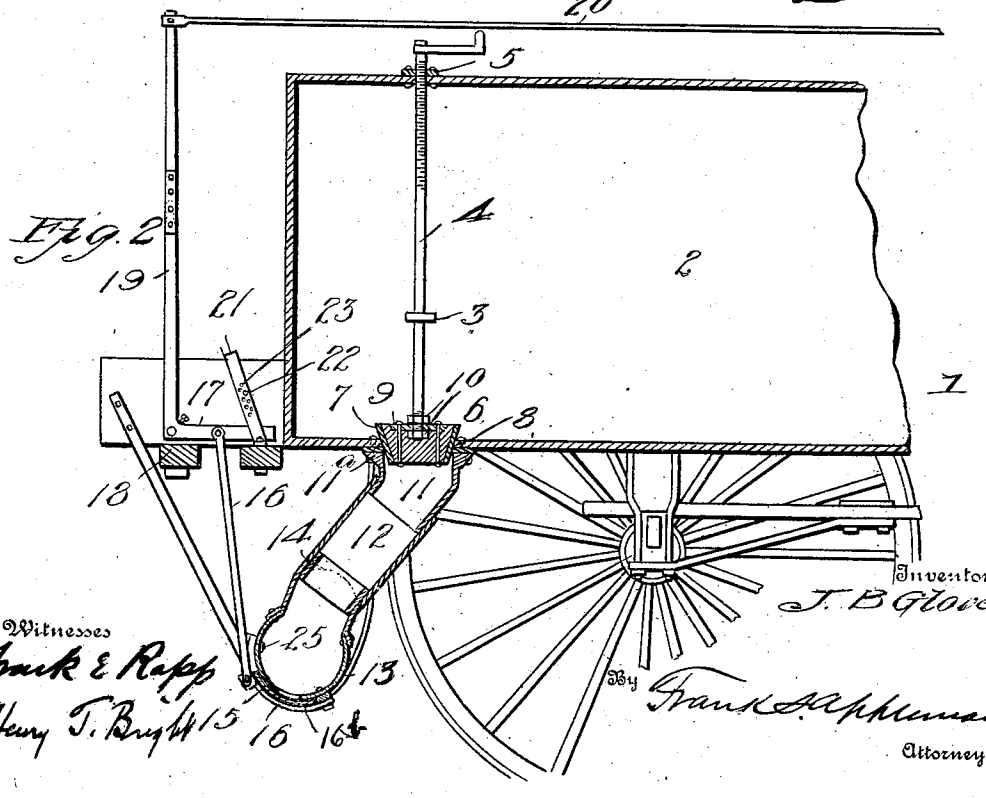


Fig. 1.

Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

JAMES BROWN GLOVER, OF REDLANDS, CALIFORNIA.

OIL-DISTRIBUTER.

SPECIFICATION forming part of Letters Patent No. 724,692, dated April 7, 1903.

Application filed June 21, 1902. Serial No. 112,697. (No model.)

To all whom it may concern:

Be it known that I, JAMES BROWN GLOVER, a citizen of the United States of America, residing at Redlands, in the county of San Bernardino and State of California, have invented certain new and useful Improvements in Oil-Distributers, of which the following is a specification.

This invention relates to oil-distributing apparatus, and it has relation more particularly to a distributer designed for use in spreading crude oil in an unheated state.

Heretofore oil-distributers have been of such construction as to require the oil to be heated in order that it may be discharged; but as heating plants are required with such distributers the cost and inconvenience attending the distribution of oil have been such as to curtail its use.

The object of this invention is to produce a distributer as an attachment for an ordinary wagon-tank wherein the discharge-orifices may be partially open in order that the amount discharged may be regulated.

Furthermore, the object of the invention is to produce means for operating the cut-off from the driver's seat on the front of the tank.

Furthermore, the object of the invention is to produce a device of the character noted which will possess advantages in points of simplicity, efficiency, and durability, proving at the same time comparatively inexpensive.

With the foregoing and other objects in view the invention consists in the details of construction and in the arrangement and combination of parts to be hereinafter more fully set forth and claimed.

In describing the invention in detail reference will be had to the accompanying drawings, forming part of this specification, wherein like characters denote corresponding parts in the several views, and in which—

Figure 1 is a view in elevation from the rear of a tank-wagon with the invention applied. Fig. 2 is a sectional view of a fragment of the tank and wagon with the invention applied. Fig. 3 is a sectional view of the distributer with the discharge-opening obstructed. Fig. 4 is a similar view with the discharge-opening unobstructed.

In the drawings, 1 denotes a wagon, and 2 a tank, which may be of any ordinary construction and need not be described in detail, except that the tank is provided with a guide 3, secured to its inner side walls near the rear end. A valve-rod 4 is threaded in a plate 5, secured on the top of the tank, and extends through the guide and carries on its lower end a valve 6, which comprises in its construction a core with a leather binding 7, forming with the valve-seat 8 a tight joint to prevent the escape of oil when the valve is seated. The valve has a plate 9 in its top, into which is swiveled the lower end of the valve-rod, which is held therein by the nuts 10, threaded on the rod above and below the plate. A discharge-pipe 11 has a flange 12, which is bolted to the bottom of the tank around the valve-opening. A leather tube 12 is secured to the discharge-pipe, and the distributer 13 has a central tubular branch 14, to which the lower end of the leather tube is secured, thus completing a connection from the oil-tank to the distributer.

The distributer has a horizontal bottom with discharge-orifices approximately V shape, which are closed by means of the gates 15, said gates being slidable in guides 16, carried by the distributer. The upper wall of the distributer is parallel with the lower wall a suitable distance from each end and is then flared as it approaches the center. By this means the outlet from the discharge-pipe has much greater capacity than the ends of the distributer, thus providing a continuous supply having a considerable pressure. The gates are adjusted through the medium of the links 16^a, pivoted at one end to the gates and at the opposite ends to the short arms 17 of bell-cranks, and the bell-cranks in turn are pivoted to beams 18, projecting from the rear of the tank. The vertical arm 19 of the bell-crank has an operating-rod 20 extending forward within reach of the driver's seat. A gage-plate 21 is provided for each bell-crank, and a pin 22, adjustable in the holes 23 thereof, regulates the throw of the bell-crank and the movement of the gates, so that a uniform discharge may be assured for all parts of roadway. The gates are lined on the inside with oiled leather 24, fastened with copper rivets to effect the tight joint. The guides are also lined with oil-leather 16^b and are held in place by screw-bolts, which pass

through the ends of the guides and also through the flexible leather lining. Iron bars 25 are bolted inside of the distributer, into which the screw-bolts are threaded in assembling the parts.

The construction, operation, and advantages will, it is thought, be understood from the foregoing description, it being noted that various changes may be resorted to in the proportions and details of construction for successfully carrying the invention into practice without departing from the scope thereof.

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

1. In an oil-distributer, a tank having a valved opening, a discharge-pipe connected to the tank at the valved opening, a distributer having increased capacity at the center as compared with its ends, gates for controlling the passage of the oil from the distributer, links for operating the gates, bell-crank levers to which the links are connected and means for limiting the movement of the levers.

2. In an oil-distributer, a tank having a valved opening, a discharge-pipe connected to the tank at the valved opening, a leather pipe secured to the discharge-pipe, a distributer proper having a branch connected to the leather pipe, said distributer proper having discharge-openings, gates for controlling the openings, leather lining-strips on the distributer and gates links pivoted to the plates, bell-cranks to which the links are pivoted, means for working the bell-cranks, apertured plates acting as a guide for the bell-cranks and pins in the apertures limiting the movement of the bell-cranks.

In testimony whereof I affix my signature, in the presence of two witnesses, this 28th day of May, 1902.

JAMES BROWN GLOVER.

Witnesses:

HENRY W. NISBET,

J. W. CURTIS.