C. V. LUCIUS.

TANK VEHICLE.

APPLICATION FILED DEC. 19, 1918.

1,311,981. Patented Aug. 5, 1919.

Fig. 1.

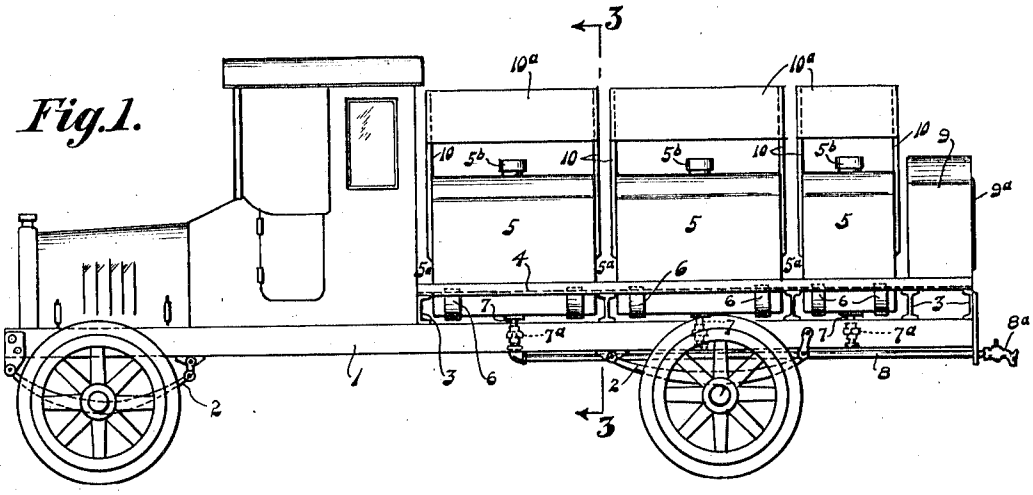


Fig. 2.

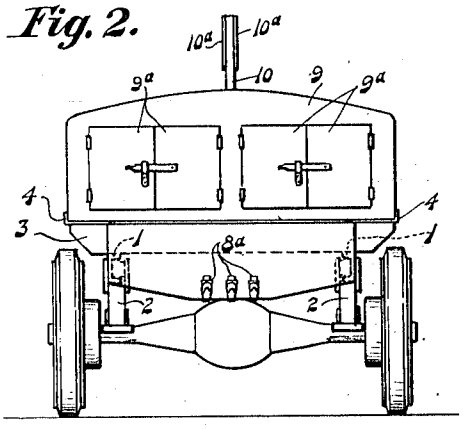


Fig. 3.

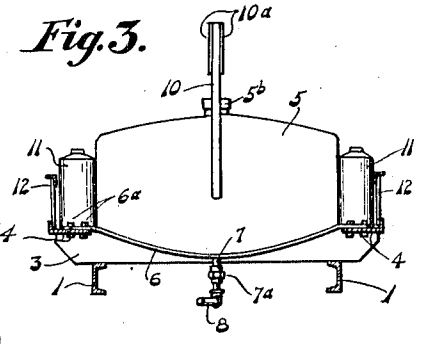
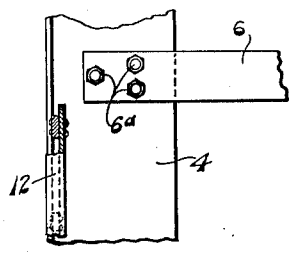


Fig. 4.



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TANK-VEHICLE.

1,311,981. Specification of Letters Patent. Patented Aug. 5, 1919.

Application filed December 19, 1918. Serial No. 267,449.

To all whom it may concern:

Be it known that I, CHRISTIAN V. LUCIUS, a citizen of the United States, residing at Massillon, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Tank-Vehicles, of which the following is a specification.

My invention relates to improvements in tank-vehicles, the primary object of the invention being to provide a generally improved oil carrying and transporting tank-vehicle, which will be exceedingly simple in construction, cheap of manufacture, and efficient in use.

A further object is the provision of improved tanks or containers for such vehicles, together with improved means of independently mounting and removably supporting the same upon the vehicle chassis.

A still further object is the provision of an improved chassis for a vehicle of this class, together with improved tank supporting side members or running boards, adapted to support a series of portable oil containers or delivery vessels.

A still further object is the provision of improved tank supporting hangers or tie members and improved means for detachably mounting and securing the same.

A still further object is the provision of improved means of independently supporting a plurality of interchangeable tanks or containers in properly spaced relation to each other, so as to provide an air circulating passage between such tanks or containers, as well as lessening the liability of one tank to injure another in case of accident, or the oil or liquid contents of one compartment becoming mixed or mingled with that of another, as well as providing means whereby any tank may be readily removed and replaced by another without in any way disturbing the mounting of an adjacent tank.

With the above mentioned and other ends in view, the invention consists in the novel construction, arrangement, and combination of parts, hereinafter described, illustrated in one of its embodiments in the accompanying drawings, and particularly pointed out in the appended claims.

Referring to the drawings, forming a part of this specification, Figure 1, is a side elevation of a tank-vehicle constructed in accordance with this invention.

Fig. 2, a rear elevation of the same.

Fig. 3, a cross sectional view taken on line 3—3, of Fig. 1, the tank supporting side members or running boards being provided with portable containers or delivery vessels, together with auxiliary supporting rails or guards.

Fig. 4, an enlarged fragmentary top plan view of one of the container supporting boards, and illustrating in particular a suitable method of detachably connecting the connected ends of the tank supporting hanger or tie members to the tank supporting running boards.

Similar numerals of reference designate like parts throughout all the figures of the drawings.

The running gear of the improved tank-vehicle may be of any suitable and convenient form, and the improved vehicle is preferably of the self-propelled type, as shown.

The improved chassis comprises a pair of longitudinally extending channel bars 1, to which the springs 2, may be attached, and the longitudinal bars 1 are adapted to support a plurality of cross bars 3, projecting beyond the channel bars 1, the projecting ends of the cross bars 3, being adapted to support tank supporting side members or running boards 4. The cross bars 3, are adapted to act as spacing members for the improved tanks 5, interposed between the cross bars 3, and the running boards or supporting members 4, as hereinafter described. It will be seen that the cross bars 3, form intervening air circulating passages 5^a, between the tanks.

As a means of independently mounting and supporting the improved tanks 5, the supporting members or running boards 4, are provided with a plurality of tank supporting hangers 6, said hanger members or tie straps extending downwardly and conforming to the curved bottom portion of the tanks 5, and being secured at their ends to the supports or running boards 4, in a suitable and convenient manner, as for example,—by means of bolts 6^a, as shown most clearly in Fig. 4, of the drawings.

It will be observed that the tanks or containers 5, are of the closed or covered type and extend transversely of the chassis and that they are of substantially rectangular form and provided at their top with filling openings provided with caps 5^b.

Each tank is provided with an outlet pipe

7, detachably secured to a longitudinally extending discharge pipe 8, by means of a union or coupling nut 7a. Each discharge pipe 8, is provided at its end with a discharge spout or nozzle 8a, at the rear, and, if desired, the chassis frame may also be provided with cupboard 9, having doors 9a, for conveniently receiving and storing various articles needed in connection with a tank-vehicle of this class.

It will be observed that tanks or containers 5, are of an improved form and that the bottoms are of concavo-convex shape for convenient and complete drainage into the outlet pipes 7, and it will also be observed that the two front tanks or containers 5, are interchangeable with each other, and if desired the spaced end walls of the tanks or containers may be provided with standards 10, adapted to carry sign or advertising boards 10a. Should it be desired to remove one of the tanks or containers 5, the union nut 7a may be detached from the discharge pipe 8, and the tank may be readily removed.

The running boards 4, are admirably adapted for receiving and carrying a plurality of portable containers or vessels 11, as shown in Fig. 3, of the drawings, and, if desired, the running boards 4, may be provided with container supporting rails or guards 12, as shown in Figs. 3 and 4, of the drawings.

From the foregoing description, taken in connection with the accompanying drawings, the operation and advantages of my invention will be readily understood.

Having thus described one of the embodiments of my invention, what I claim and desire to secure by Letters Patent, is,—

1. A tank-vehicle, comprising a chassis including laterally projecting cross bars carrying tank-supporting side members, hangers carried by the latter, and tanks mounted on said hangers and seated between and spaced by said cross bars.

2. A tank-vehicle, comprising a chassis including laterally projecting cross bars carrying tank-supporting side members, depending hangers detachably carried by the latter, and transverse tanks mounted on said hangers and seated between said cross bars.

3. A tank-vehicle, comprising longitudinal chassis members and cross members carried thereby and projecting on opposite sides thereof, tank supporting side members on the projecting ends of said cross members, hangers carried by said side members, and independent tanks carried by said hangers and spaced between and by said cross members.

4. A tank-vehicle, comprising longitudinal chassis members and cross members carried thereby and projecting on opposite sides thereof, tank supporting side members on the projecting ends of said cross members, hanger straps carried by said side members and depending between said cross members, and independent transversely extending tanks carried by said hanger straps and interposed between and spaced by said cross members.

In testimony whereof I have affixed my signature.

CHRISTIAN V. LUCIUS.