J. E. FLITCROFT.

TANK.

APPLICATION FILED MAY 28, 1920.

1,386,462.

Patented Aug. 2, 1921.

Fig. 1.

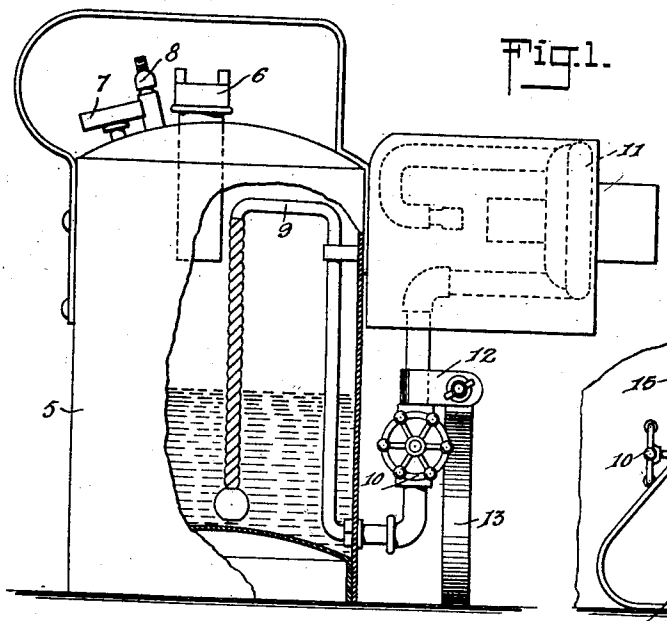


Fig. 3.

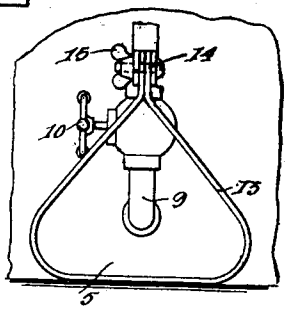
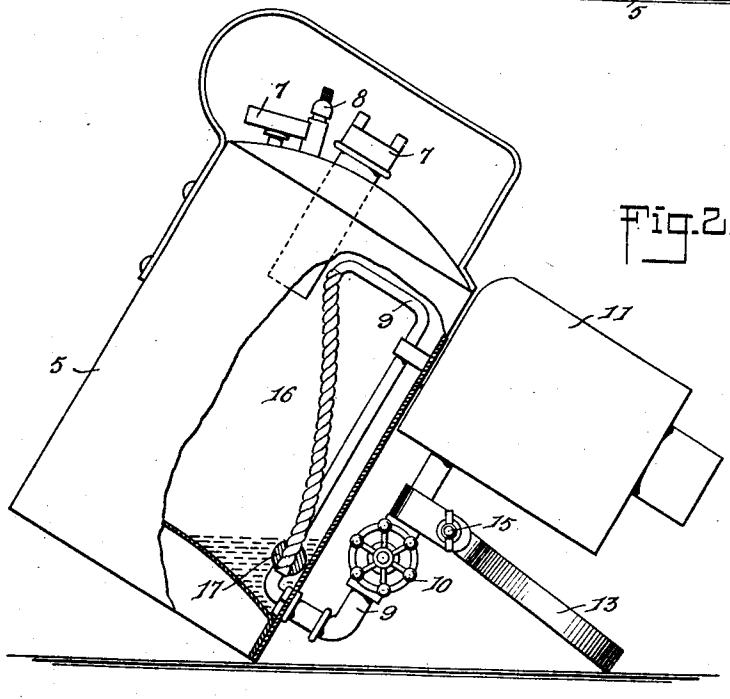


Fig. 2.



WITNESSES

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TANK.

1,386,462. Specification of Letters Patent. **Patented Aug. 2, 1921.**

Application filed May 28, 1920. Serial No. 384,920.

To all whom it may concern:

Be it known that I, JAMES E. FLITCROFT, a citizen of the United States, and resident of Asbury Park, in the county of Monmouth and State of New Jersey, have invented a new and Improved Tank, of which the following is a full, clear, and exact description.

This invention relates to tanks, and aims to more particularly provide a new and improved tank of the portable type, which is adapted to receive a fluid for various purposes, and to at some times occupy a tilting position.

In connection with blow-torches, more particularly of the portable type, it is realized that it is often desirable to have the nozzle assume an inclined or tilted position so that the flame projected therefrom may be brought to bear against the surface above or below the horizontal plane normally occupied by the nozzle.

Heretofore, mechanics engaged in this line of work have accomplished this result by placing pieces of wood, stone, etc., under the rear edge of the burner tank so that the nozzle assumes an inclined position, by means of which the flame projected therefrom may be brought to bear upon the desired point. This has, at best, been an unsatisfactory expedient in view of the fact that the slightest jar was liable to upset the torch, resulting in great damage, and often in the explosion of the burner.

A further defect which has been experienced in all types of portable tanks or reservoirs, and more particularly those associated with a burner, has been that upon the tank assuming an inclined position for the purpose above brought out, that the centrally extending pipe within the tank has not been submerged within the fluid contained therein, when the greater part of the same has been consumed.

With this in view, I have constructed a tank adaptable to a number of different purposes, but which is primarily intended for use in connection with a blow-torch or burner by means of which the fuel will at all times be fed to the burner as long as any appreciable amount of the same remains in the tank, a further object of my invention being the provision of certain means associated with the tank which will permit of the burner nozzle assuming an inclined position without any danger of an overturning of the tank resulting.

Reference is had to the attached sheet of drawings as illustrating one practical embodiment of my invention, and in which drawings,

Figure 1 is a partly sectional side view of a tank constructed in accordance with my invention showing the same in its normal position.

Fig. 2 is a similar view but showing the position of the parts when the tank and burner nozzle is inclined, and

Fig. 3 is a front view of a certain detail of construction affording a support and retaining means for the tank and nozzle, when the latter are in tilted position.

In these views the reference numeral 5 indicates a tank or reservoir of any desired type of construction which may conveniently be supplied with a conventional fuel inlet pipe 6, pressure gage 7 and air pressure inlet and check valve 8.

The torch or burner is also conveniently furnished with a fuel pipe 9, regulator valve 10 and burner nozzle 11, all of any desired construction.

Now with a view of providing means which will permit of a supporting and retention of the tank and nozzle in an inclined position, I conveniently apply any suitable type of bracket 12 to the fuel pipe 9 preferably at a point beyond the valve 10. A stirrup iron or other suitable support 13, has its upper ends pivotally secured, as at 14, to the bracket 12, suitable securing means for retaining this supporting member at any desired angle with respect to the bracket being afforded, such as a bolt and wing nut 15 forming the pivot 14 and passing through the bracket 12 and upper ends of the stirrup iron 13.

It will be appreciated by this construction, that, as has been illustrated in Fig. 2, the stirrup iron 13 or other supporting member may be adjusted to any convenient angle with respect to the bracket 12, and secured in this position by means of the bolt and wing nut 15 so that the torch may be left unattended, to play its flame upon any desired spot.

In this connection, it is to be noted that certain types of burner nozzles are extremely heavy and extend to a position well beyond

the side of the tank or reservoir 5, so that danger of the entire apparatus upsetting when subjected to the slightest jolt exists upon the fluid fuel becoming exhausted within the tank 5, and thus lessening the weight of this member.

With this in view, the stirrup iron or supporting member 13 may conveniently be adjusted to the position shown in Fig. 1, which it may normally occupy, and at this point it will be appreciated that this member sufficiently underlies the burner nozzle 11, and effectually prevents any overbalancing of the tank.

Now with a view of providing means which will serve to permit the fluid within the tank to be withdrawn into the nozzle irrespective of the level of the former, or degree of tilt of the tank, I provide, contrary to the rigid centrally extending pipe which usually forms an extension of the inner end of the pipe 9, a flexible piece of tubing 16 of any desired construction, the upper end of which is secured to the inner end of the pipe 9, the lower end having conveniently associated with it a weight 17 serving at all times to cause the tubing 16 to lie in a substantially vertical plane, at which point the lower end of the same will always be submerged below the level of the fluid within the tank 5.

It will readily be appreciated that this latter part of my invention is applicable to any type of tank capable of receiving fluid, and which tank is adapted to be tilted at times.

Obviously numerous modifications of structure might be resorted to without in the least departing from the scope of my claims, which read:

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

1. A tank, a burner nozzle, a fuel pipe extending between said tank and burner nozzle, said tank resting normally upon its base and serving to support said nozzle, and means attached to said fuel pipe for supporting said tank in an inclined position.

2. A tank, a burner nozzle, a fuel pipe extending between said tank and burner nozzle, said tank resting normally upon its base and serving to support said nozzle, a bracket secured to said fuel pipe, a stirrup iron pivotally secured to said bracket, and means for retaining said stirrup iron at any desired angle with respect to said bracket.

3. A tank, a burner nozzle, a fuel pipe extending between said tank and burner nozzle, said tank resting normally upon its base and serving to support said nozzle, and a bracket attached to said fuel pipe, a stirrup iron pivotally secured to said bracket, and a wing nut adapted to co-act with said bracket and stirrup iron for retaining the same in fixed position.

JAMES EDWARD FLITCROFT.