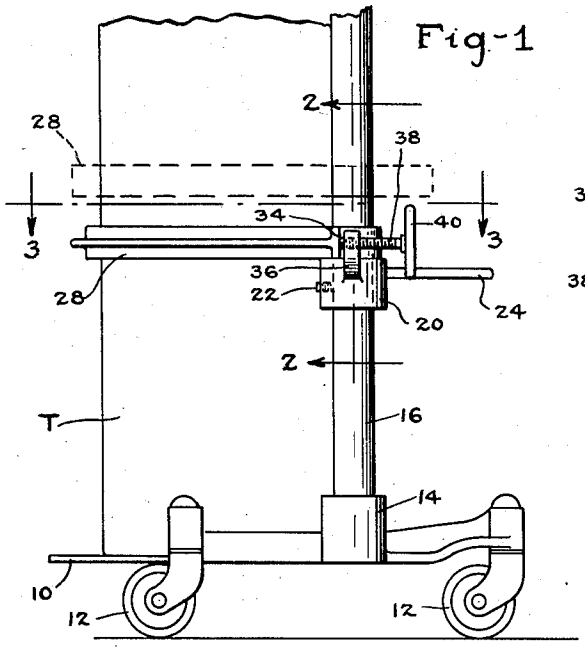
Oct. 23, 1934. J. A. HEIDBRINK 1,977,725

HOLDER FOR GAS ADMINISTERING TANKS

Filed July 14, 1933

Fig-1



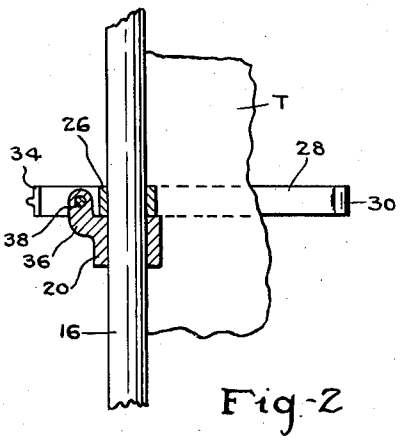
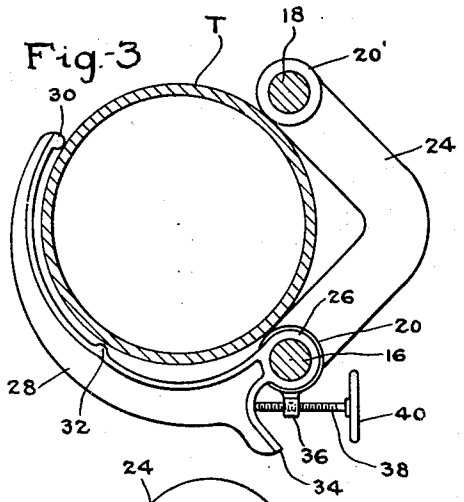


Fig-2

Fig-3



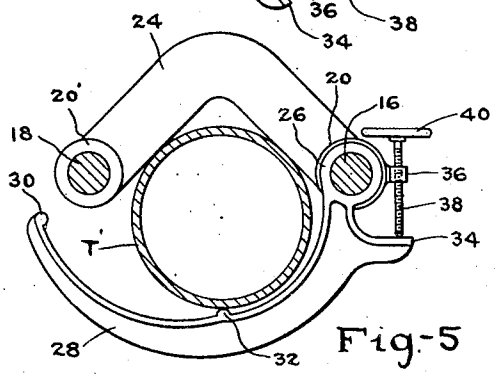


Fig-5

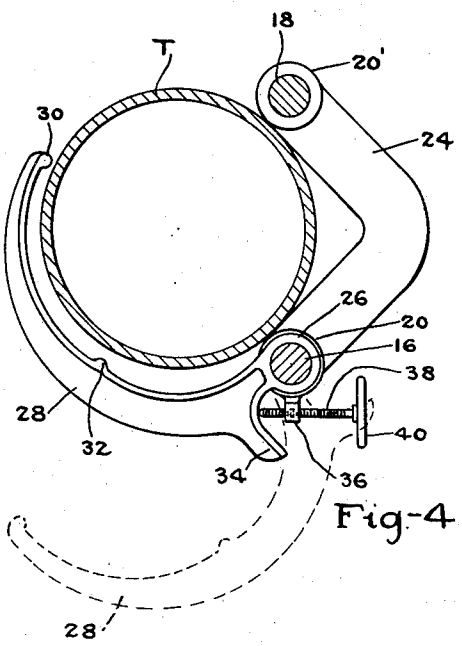


Fig-4

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HOLDER FOR GAS ADMINISTERING TANKS

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Application July 14, 1933, Serial No. 680,431

4 Claims. (Cl. 248—11)

My invention relates to holders for gas administering tanks. An object of the invention is to provide a device of this character by means of which a tank containing gas to be administered to patients may be readily moved into the desired position without liability of the tank falling off the support upon which it is placed. In carrying out my invention I provide a support which carries a fixed member for engaging one side of the tank and which also carries a clamping member for engaging the opposite side of the tank, the clamping member being so constructed and arranged that it may be readily released from clamping engagement with the tank in order that the particular tank which has been in use may be readily replaced by another tank.

The full objects and advantages of my invention will appear in connection with the detailed description thereof, and the novel features of my inventive idea will be particularly pointed out in the claims.

In the accompanying drawing, which illustrates a practical embodiment of my invention,—

Fig. 1 is a side elevational view of the device showing it in use for holding a gas administering tank. Fig. 2 is a view in vertical section on the line 2—2 of Fig. 1. Fig. 3 is a view in horizontal section on the line 3—3 of Fig. 4. Fig. 4 is a view corresponding to Fig. 3 and showing the device in open position in dotted lines. Fig. 5 is a view similar to Fig. 3 and showing the device in use with a smaller tank.

As shown in Fig. 1 of the drawing, I provide a support or platform 10 which is mounted on caster wheels 12 in order that it may be readily moved into the desired position. The support 10 is provided with a socket 14 in which is fastened the lower end of an upwardly-extending rod or standard 16. As will be understood from Fig. 3, the support 10 at a point about ninety degrees from the socket 14 carries a similar socket in which is fastened the lower end of an upwardly-extending rod 18. A sleeve 20 is secured to the rod 16 by a set-screw 22 so as to be held in place thereon considerably below the top of the rod. A sleeve 20' is similarly secured to the upper portion of the rod 18, and the two sleeves are joined by an annular member 24 preferably integral therewith and whose angle is outwardly directed. A sleeve 26 rests upon the sleeve 20 so as to be capable of turning on the rod 16 when not restrained from so doing. A curved member 28 is carried by the sleeve 26 preferably integral therewith and adapted for swinging movement when the sleeve is turned. The free end of the member 28 is provided with an inwardly-extending lug 30, while the middle of this member is provided with an inwardly-extending lug 32. The member 28 is designed to act as a clamping member, and for this purpose is provided with an outward projection 34 located near the sleeve 26. The sleeve 20 carries an upwardly-extending lug 36 containing a threaded opening for receiving a screw 38 provided with a hand wheel 40 at one end, the other end of the screw being adapted to bear against the projection 34.

The operation and advantages of my device will be fully understood in connection with the foregoing description and the accompanying drawing. The letter T designates a gas administering tank of usual construction placed in position on the wheeled support 10 so that one side of the tank engages the fixed member 24. In order to securely hold the tank in this position upon the support, the member 28 is placed in the position shown in Fig. 1 and the hand wheel 40 is turned in the proper direction to force the lug 30 against the tank as shown in Fig. 3. Fig. 5 shows the device in use for holding a smaller tank T'. In this case the turning of the hand wheel 40 forces the intermediate lug 32 into engagement with the tank. In either case the tank is firmly held in such manner as to prevent it from falling off the support 10, it being noted that for the larger tank the lug 30 is directly opposite the member 24, while for the smaller tank the lug 32 is directly opposite the member 24. In order to remove the tank for replacement by another tank, it is merely necessary to slightly loosen the screw 38. The clamping member 28 may then be slid upwardly into the position shown in dotted lines in Fig. 1 to bring the projection 34 above the screw 38, whereupon the member 24 may be swung backwardly into the position shown in dotted lines in Fig. 4.

I claim:

1. A holder for gas administering tanks comprising a support, two spaced rods extending up from said support, an angular member secured at its ends to said rods with its angle directed outwardly whereby both portions thereof are adapted to engage one side of the tank, one of said rods extending up beyond said angular member, a clamping member swingingly mounted on said rod and adapted for vertical sliding movement thereon above said angular member, and a clamping screw carried by the attached

end of said angular member adapted to co-act with said clamping member only when the latter is in lowered position for forcing it into engagement with the opposite side of the tank.

2. A holder for gas administering tanks comprising a support, two spaced rods extending up from said support, an angular member having sleeves on its ends secured upon said rods respectively, the angle of said member being directed outwardly whereby both portions thereof are adapted to engage one side of the tank, one of said rods extending up beyond the said sleeve secured thereto, a clamping member having a sleeve at one end thereof mounted on said last-mentioned rod for both rotative and vertical sliding movement above the sleeve of the angular member, and a clamping screw carried by the last-mentioned sleeve adapted to co-act with said clamping member only when the latter is in lowered position for forcing it into engagement with the opposite side of the tank.

3. A holder for gas administering tanks comprising a support, a standard extending up from said support; a fixed member carried by said standard for engaging one side of the tank, a clamping member swingingly mounted on said standard and adapted for vertical sliding movement thereon above said fixed member, and a clamping screw carried by said fixed member adapted to co-act with said clamping member only when the latter is in lowered position for forcing it into clamping engagement with the opposite side of the tank.

4. A holder for gas administering tanks comprising a support, a standard extending up from said support; a fixed member carried by said standard for engaging one side of the tank, a clamping member having a sleeve at one end thereof mounted on said standard for both rotative and vertical sliding movement above said fixed member, and a clamping screw carried by said fixed member adapted to co-act with said clamping member only when the latter is in lowered position for forcing it into engagement with the opposite side of the tank.

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