No. 841,462. PATENTED JAN. 15, 1907.

F. C. SMITH.

WATER TANK SUPPORTING MEANS.

APPLICATION FILED DEC. 4, 1905.

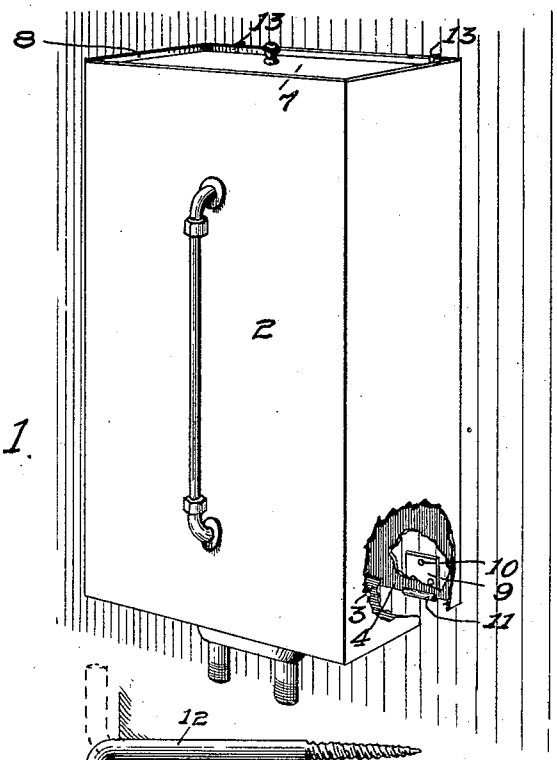


FIG. 1.

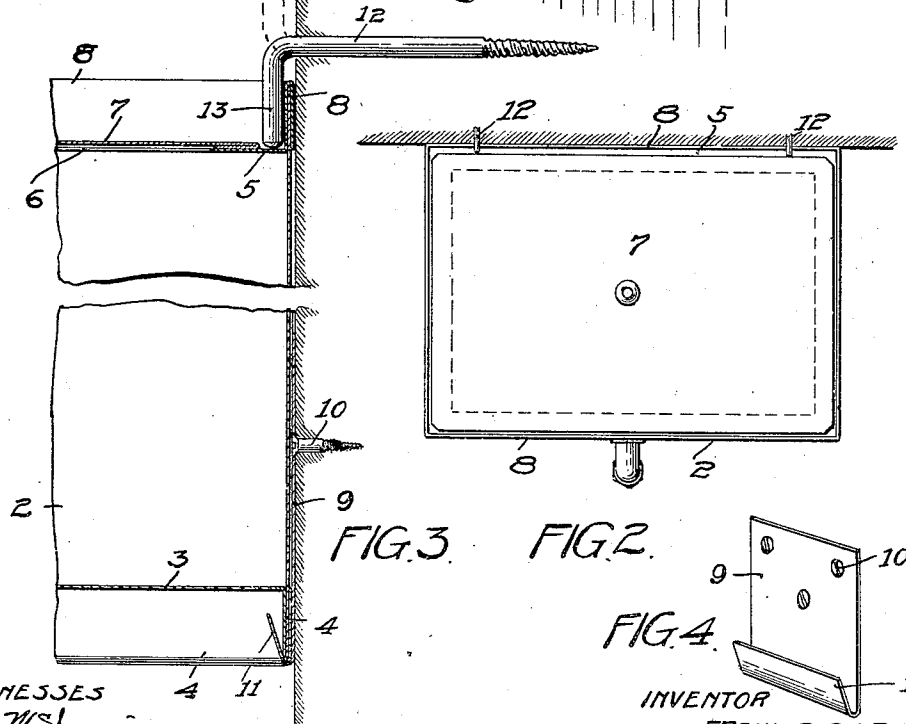


FIG. 3. FIG. 2.

FIG. 4.

WITNESSES

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WATER-TANK-SUPPORTING MEANS.

No. 841,462. Specification of Letters Patent. Patented Jan. 15, 1907.

Application filed December 4, 1905. Serial No. 290,219.

To all whom it may concern:

Be it known that I, FRANK C. SMITH, of Minneapolis, Hennepin county, Minnesota, have invented certain new and useful Improvements in Water-Tank-Supporting Means, of which the following is a specification.

My invention relates to means for supporting a water-tank on an upright wall, and particularly to means for supporting the tank used with hot-water heating systems and generally known as the "overflow" or "expansion" tank.

The object of my invention is to provide a supporting means which will be practically invisible when in use and will allow the tank to be readily removed from the wall at any time for the purpose of cleaning or repairs.

A further object is to provide a supporting means which will be inexpensive to manufacture and can be easily and quickly placed in position to support the tank.

The invention consists generally in various constructions and combinations, all as hereinafter described, and particularly pointed out in the claim.

In the accompanying drawings, forming part of this specification, Figure 1 is a perspective view of a hot-water-system water-tank embodying my invention. Fig. 2 is a top view of the same. Fig. 3 is a vertical sectional view, and Fig. 4 is a perspective view, of one of the supporting means.

In the drawings, 2 represents the water-tank, having its bottom 3 arranged above the lower edge of the side walls, whereby a vertical flange 4 is formed, depending below said bottom around the lower end of the tank. At the upper end a horizontal flange 5 is provided below the upper edges of the side walls, inclosing an opening 6, which is normally concealed by a removable cover 7. A vertical flange is thus formed extending entirely around the top of the tank.

To support the tank on the wall, I prefer to provide sheet-metal clips 9, secured at one end to the wall by screws 10 or other suitable means and having their lower ends outwardly and upwardly turned to form hooks 11, into which the flange 4 on the rear wall of the tank is inserted and supported thereby and is prevented from swinging outwardly at the bottom when the fastening means is released at the top. Any suitable number of these clips may be provided, but I prefer to provide one on each side of the center of the tank, and when the clips are secured to the wall and the tank suspended thereon the supporting means will be practically invisible.

At the top of the tank I provide screws 12, inserted into the wall and having ends 13 bent substantially at right angles to the main portion of the screw and adapted to be swung down and clamp the flange 8 securely on the wall, the flange fitting snugly between the end of the wall and the screw, as indicated in Fig. 3, and the cover being sufficiently loose to permit its removal without disturbing the screws. With these fastening devices a hot-water-heating tank can be easily and quickly secured in place on the wall and as readily removed whenever desired for cleaning or repairs.

The clips are much less expensive than the brackets usually employed and do not occupy much space on the wall and allow the tank to be removed whenever desired.

I claim as my invention—

The combination, with a wall, of clips 9 secured thereon and having outwardly and upwardly turned lower ends, a hot-water expansion-tank having flanged edges at the top and bottom, and an opening in its top and a cover therefor, pipes removably attached to the bottom of said tank and the flange at the bottom of said tank being engaged by the hooks on said clips and supported thereby, but adapted to be separated therefrom when the tank is raised and screws inserted into the wall near the top of said tank and having their outer ends bent substantially at right angles to the main portion of the screw and adapted to be swung down and engage the flange at the top of said tank, whereby said tank will be securely held but may be readily disengaged from the wall upon reversing the position of said screws, substantially as described.

In witness whereof I have hereunto set my hand this 28th day of November, 1905.

FRANK C. SMITH.

Witnesses:

RICHARD PAUL,

C. MACNAMARA.