April 23, 1929. R. G. MARTER 1,710,318

HUMIDIFYING CONTAINER FOR RADIATORS

Filed Feb. 28, 1927

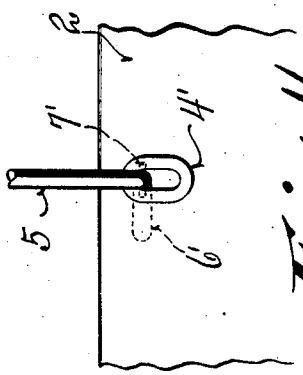


Fig. 4

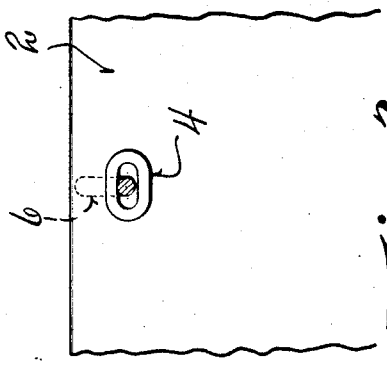


Fig. 3

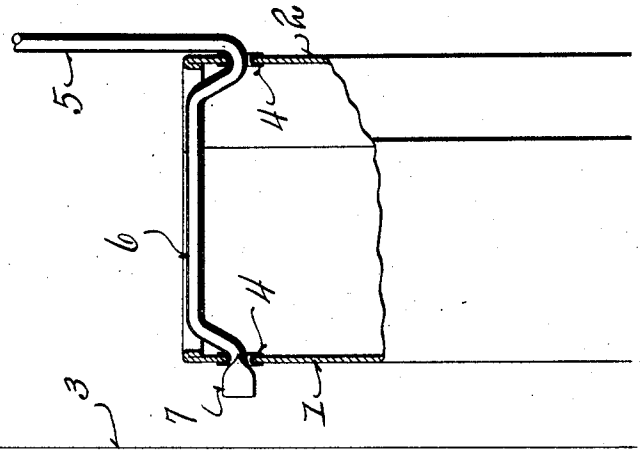


Fig. 2

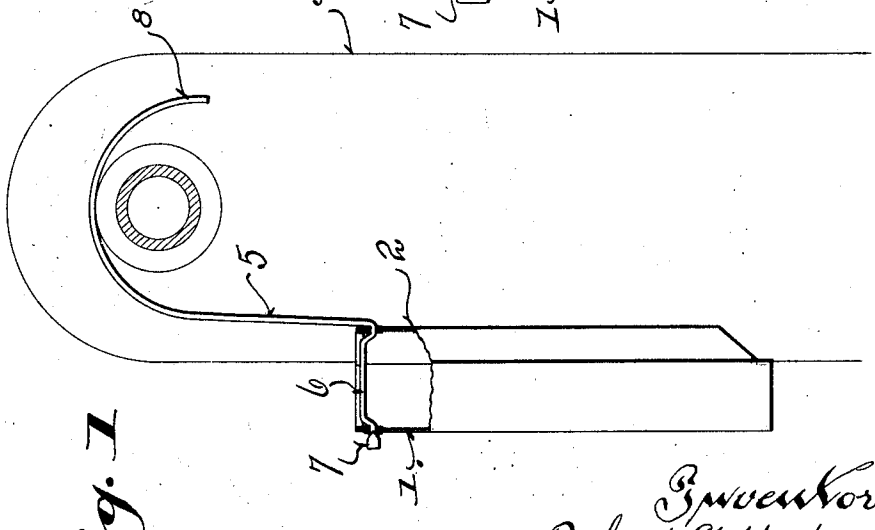


Fig. 1

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UNITED STATES PATENT OFFICE.

RICHARD G. MARTER, OF MILWAUKEE, WISCONSIN, ASSIGNOR TO NATIONAL ENAMELING & STAMPING CO., OF MILWAUKEE, WISCONSIN.

HUMIDIFYING CONTAINER FOR RADIATORS.

Application filed February 28, 1927. Serial No. 171,671.

This invention relates to humidifying containers for radiators.

In humidifying containers for radiators, as heretofore constructed, it is the usual practice to provide the container with hooks which act as supporting members and which are guided by means of clips secured within the container, so that the hooks may be turned about a vertical axis and dropped down into the container, and it has been further found necessary to provide an auxiliary brace for joining the inner and outer walls of the container to prevent their spreading when the load, due to the water, is imposed upon the device. It has been found with this prior type of container that additional work is required for securing the clips in place and also for providing an auxiliary brace. In addition to this, in order to guide the hooks effectively the clips are placed below the water level and rapidly corrode and cause trouble.

This invention is designed to overcome the above noted defects and objects of such invention are to provide a novel form of humidifying container for radiators which is so constructed that the supporting hooked members act as braces and prevent spreading of the container when loaded with water and thus avoid the necessity for the auxiliary brace, and to so relate the hooks or supporting members and the container that the members are carried without using auxiliary clips for guiding them, and are positioned wholly above the water level under all conditions of use.

A further object is to provide a humidifying container of the above described type which nevertheless may be knocked down, that is to say, may have its supporting hooked members detached and positioned within the container to facilitate shipping and storage.

Embodiments of the invention are shown in the accompanying drawings in which:

Figure 1 shows the humidifying container in place upon a radiator, such view being partly in section;

Figure 2 is an enlarged fragmentary view partly in section of the upper portion of the container;

Figure 3 is a face view of the structure shown in Figure 2 with a portion of the supporting hooked member in section;

Figure 4 is a view corresponding approximately to Figure 3, showing a modified form of the invention.

Referring to the drawings, particularly Figures 1 to 3, it will be seen that the container comprises a member provided with an outer wall 1 and with an inner corrugated wall 2 to fit between the portions of the radiator 3 in the usual manner. These inner and outer walls are provided with apertures which are reenforced by grommets 4, as shown most clearly in Figures 2 and 3. These grommets, it will be seen from Figure 3, are horizontally elongated and furnish a bearing for the portions of the supporting hooked members 5, such members being provided with downturned portions 8 in the usual manner to hook over the appropriate portion of the radiator, as shown in Figure 1. The supporting members 5 are provided with an upwardly arched portion or offset portion 6 lying in the same plane with the vertical portion 5 and such arched or upwardly offset portion is positioned between the front and rear walls of the container. Further, the outer end of the supporting member is flattened or spread, as indicated at 7 in Figure 2, so as to prevent its inadvertent withdrawal from its grommet when the parts are turned into their operative position, as shown in Figure 2.

However, when it is desired to ship the device the supporting members may be readily detached by rocking them 90° about their pivoted portions. This places the flattened portions 7 in the plane of the elongated opening of its corresponding grommet and permits the ready inward withdrawal of the flattened or enlarged portion. Further, the arched portion 6 or offset portion may be easily withdrawn through the inner grommet by slightly tilting the supporting member during this operation. The supporting members may then be temporarily stored within the container and the container thus shipped in a compacted condition.

It is to be particularly noted that the grommets and the supporting members are located wholly above the water level and, consequently, corrosion of the parts will not result.

The same inventive idea is followed in the form shown in Figure 4 with, however, the exception that the grommets 4′ are turned vertically, that is to say, their elongated aperture extends vertically. Correspondingly, the offset or arched portion 6′ and the flat-

tened portion 7′ are arranged horizontally when the supporting member 5 is vertical, as shown in Figure 4, so that there is the interlocking between the parts 6′ and 7′ and their corresponding grommets when the device is in operative position.

It will be seen that when it is desired to detach the supporting members from the container all that is necessary is to lock the supporting members 90° from their vertical position and detach them in the manner described previously in connection with the first form of the invention.

It will be seen that a very simple type of humidifying container for radiators has been provided by this invention and one which may be more cheaply manufactured than the usual types of containers, as no additional guiding clips are necessary and as no reenforcing transverse braces are required. The supporting members serve in the double capacity as supporting members and as bracing members interlocking or bracing the inner and outer walls of the container.

It will be further seen that the corrosion heretofore experienced with the usual types of humidifying containers is wholly avoided by this invention, as the supporting members and the grommets are located above the water level.

Although the invention has been described in considerable detail, such description is intended as illustrative rather than limiting as the invention may be variously embodied and as the scope of such invention is to be determined as claimed.

I claim:

A device of the class described comprising a vessel having front and rear walls, end walls and a bottom wall, said front and rear walls having aligned apertures therein of oval shape, a supporting member normally pivotally mounted within said apertures and having offset portions adapted to be turned at right angles to the longer axis of said apertures, said supporting member having an offset inner portion adapted to brace and space the walls apart and having an upwardly projecting hook-shaped end, whereby said member may be detached from said container.

In testimony that I claim the foregoing I have hereunto set my hand at Milwaukee, in the county of Milwaukee and State of Wisconsin.

RICHARD G. MARTER.