May 31, 1938. J. KACENA 2,119,256

SUPPORT FOR RADIATORS AND THE LIKE

Filed Feb. 11, 1937

Fig. 1.

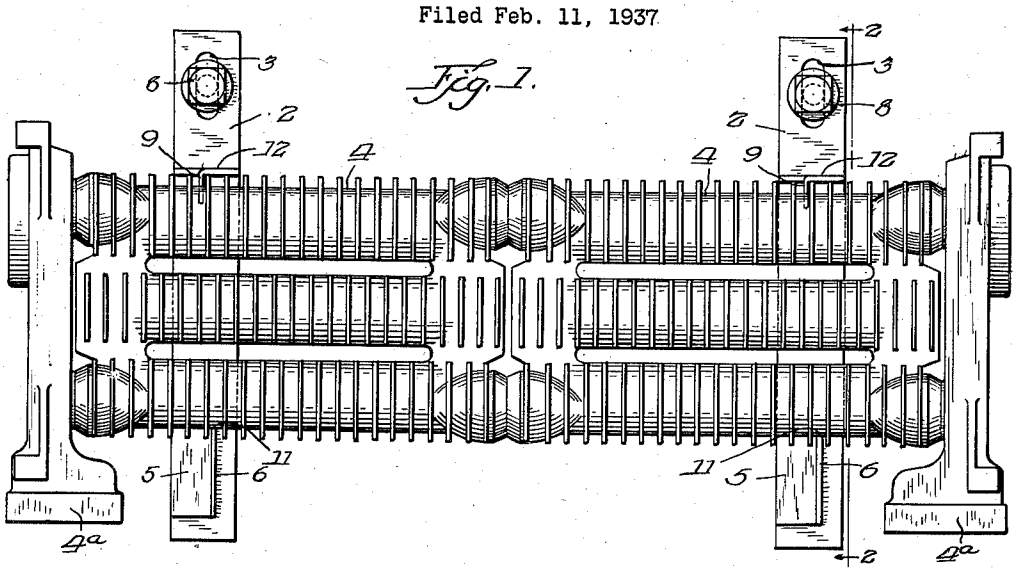


Fig. 2.

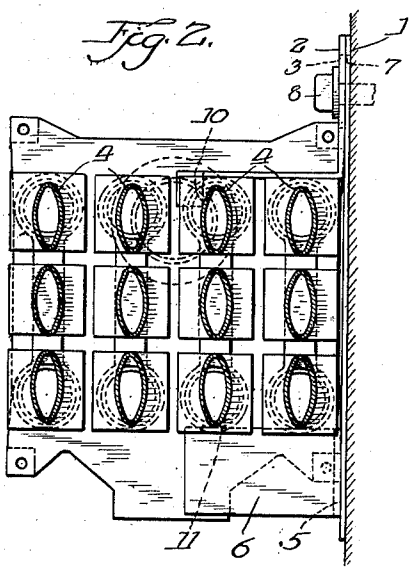


Fig. 3

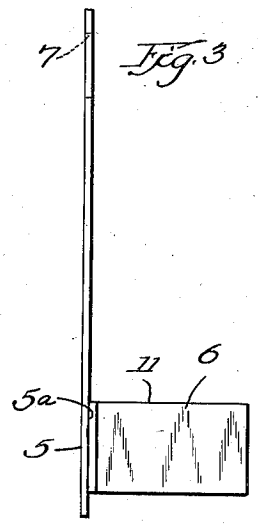


Fig. 4.

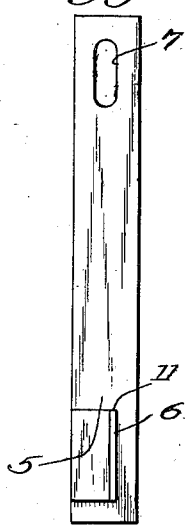


Fig. 5.

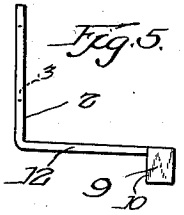
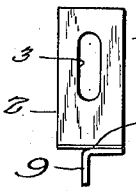


Fig. 6



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2,119,256

SUPPORT FOR RADIATORS AND THE LIKE

John Kacena, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois

Application February 11, 1937, Serial No. 125,190

1 Claim. (Cl. 248—232)

This invention relates to the type of hanger or bracket support in which the article may be easily and conveniently produced from sheet strip metal, whereby the cost of manufacture is substantially minimized and actual installation is greatly expedited.

Heretofore, the available radiator support constructions have been expensive, requiring special care in making the installation and, in general, making it inconvenient to proceed without troublesome delays due to the special nature of the product. Therefore, an important object of my invention lies in producing an easily available structure which is capable of being quickly and economically adjustable in all desired directions and one in which two brackets of each type only are, as a rule, required in the support of convectors or radiators of even relatively great length or width.

Another important object lies in the avoidance of the usual space restrictions involving special bolting or similar anchoring problems in that a single bolt of substantial proportions is sufficient for hanging and holding the convector to the wall in cooperation with each support.

Another important object is to provide a wall hanger in which supporting or other cooperative castings will not be necessary, but by simply using a hacksaw, metal shears, or other similar cut-off tool and/or together with welding, as desired, the bracket and clip stock may be cut to size and assembled and the article to be supported may then be easily mounted thereon at the place of the installation.

Other objects of the invention as well as inherent advantages flowing therefrom will appear more fully as the specification is read in connection with the attached drawing, in which

Fig. 1 is a front view showing a convector or concealed radiator in installed position, mounted upon the wall brackets in assembled relation and exemplifying my invention.

Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1, showing the relative manner in which the brackets are preferably placed with respect to the radiator sections and passages.

Fig. 3 is a side view of one form of the supporting bracket used for carrying the radiator.

Fig. 4 is a front view of the bracket shown in Fig. 3.

Fig. 5 is a side view of the top clip which is used for maintaining the radiator or convector section against the wall surface while being supported upon the complementary bracket illustrated in Figs. 3 and 4.

Fig. 6 is a front view of the clip shown in Fig. 5.

Referring to Fig. 1, the supporting boards 1 or other suitable supporting means are preferably used upon which the bracket and the clip may be securely mounted, although obviously the ordinary wall with suitable inner anchoring supports may also be used for the purpose. The upper bracket or clip 2 of plate form is provided with the slotted aperture 3, thereby having means for placing the clip 2 longitudinally adjustable, as desired, upon and with respect to the convector section 4 after the latter has been mounted upon the lower supporting bracket 5, also preferably of plate form, and carried directly upon the transversely positioned edge of the plate portion 6.

The supporting bracket 5 which is mounted with its back directly against the wall or similar upright surface may be made in either of two ways, that is, as shown in Fig. 3 in two pieces, by having the angle plate piece 6 preferably welded, as indicated at 5*a*, or else it may be formed, if the length of the position 6 need not be greater than the width of the strip 5, by simply cutting it out to the width as desired and bending it to approximately 90°, thereby avoiding the need for a weld.

With this construction the transverse portion 6 will then be an integral part of the bracket 5. Provision for this type of bent over construction has its limitations dimensionally and depends largely upon the type of installation encountered. However, it will be apparent that if the portion 6 is cut out of the plate 5, and the latter is of stock having relatively great width, the transversely extending portion 6 can easily be provided as described, and provide sufficient length transversely to the portion 5 so as to accommodate at least one or two radiator sections in bank.

However, for general purposes, it is preferred that the angle plate 6 should be welded or similarly attached to the back as shown at 5*a* in Fig. 3, since the length of the plate 6 then can be more easily provided to accommodate an increased number of radiator section banks, as illustrated.

Both the lower supporting bracket 5 and the upper clip 2, being provided with the apertured slots as respectively indicated at 3 and 7, are therefore capable of being adjustably supported from the same single positioning and holding means as indicated by the bolt 8. The upper clip 2 is preferably provided with the downwardly extending integral angular portion 9, which is pref-

erably formed by bending, as desired, and which is projected in such manner so as to hold the radiator section securely in position, as indicated more clearly at **10** in Fig. 2, and being mounted upon and on top of the lower supporting bracket **5**. The weight of the radiator section **4**, as mentioned, is therefore carried by the bracket **5** as indicated at the edge **11**. Further, it is readily apparent that this form of construction lends itself to the support of relatively great weight with substantial rigidity. The bracket **5** and the clip **2** may be of such length insofar as the respective portions **6** and **12** are concerned as to suit any reasonable width of radiator section, and they may be easily provided by the convenient and economical expedient of cutting the stock to the length desired.

From the foregoing description, it is evident that my invention is capable of several modifications, and I desire therefore to be limited only to the extent of the appended claim.

I claim:

In a wall-mounted radiator supporting means, a combined bracket comprising a plate supporting member having a vertical back plate having welded transversely thereto an angle plate member with a substantially vertical extending surface in which the horizontally extending upper edge thereof serves as the supporting means for the said radiator, a clip member of angular plate form superposed above and over said plate member, the said clip member having a downwardly extending projection, whereby the radiator is prevented from taking a leaning position away from the said wall.

JOHN KACENA.