J. W. FARLEY.

COMBINED BRACKET AND HANGER FOR RADIATORS.

APPLICATION FILED JULY 13, 1920.

1,382,418. Patented June 21, 1921.

FIG. 1.

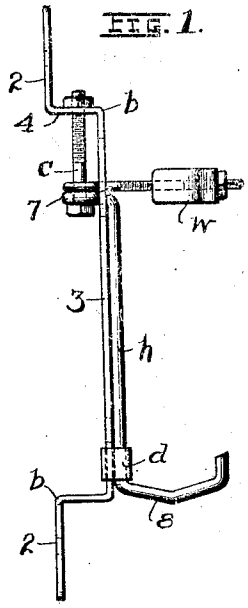


FIG. 5.

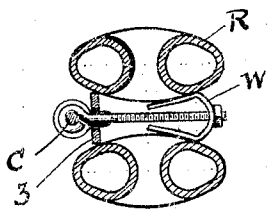


FIG. 2.

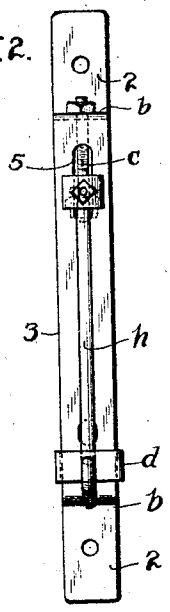


FIG. 6.

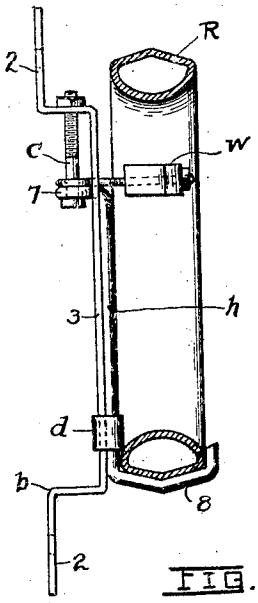


FIG. 3.

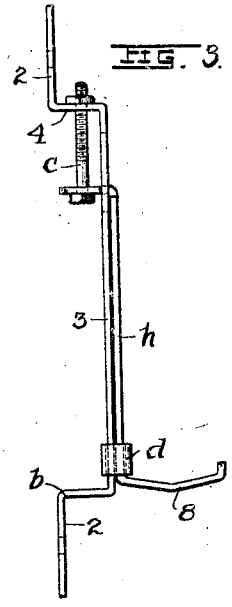


FIG. 4.

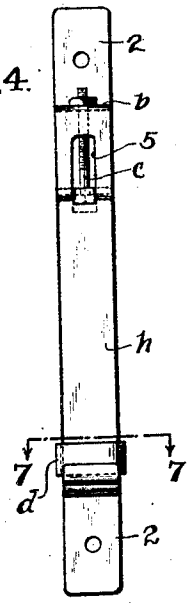


FIG. 7.

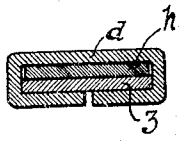
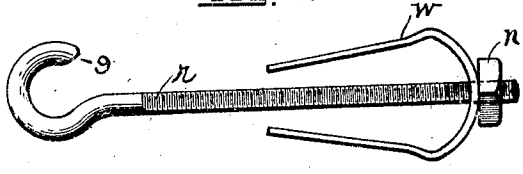


FIG. 8.



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COMBINED BRACKET AND HANGER FOR RADIATORS.

1,382,418. Specification of Letters Patent. Patented June 21, 1921.

Application filed July 13, 1920. Serial No. 395,927.

To all whom it may concern:

Be it known that I, JOHN W. FARLEY, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Combined Brackets and Hangers for Radiators, of which the following is a specification.

The object of the present invention is to provide a combined bracket and hanger for wall radiators of whatever type in steam or hot water systems, and the construction shown comprises a bracket member adapted to be fixed upon the wall or any other firm and available support and a hanger member to support the radiator thereon with adjustment as to size and elevation and with reinforcement at the point where the weight of the radiator offers the greatest strain on its support. Provision is also made for contraction and expansion of the parts under heat and cold, and the construction and arrangement of the parts is such that the bracket member and the hanger or suspensory member reinforce each other, all substantially as shown and described and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is an end elevation of a complete device in which the suspensory or hanger member is formed from a round rod bent to shape and with the parts positioned to engage a radiator in which the folds or columns stand vertically, and Fig. 2 is a front elevation of Fig. 1.

Fig. 3 is an end view corresponding to Fig. 1 in the number and disposition of the parts but with the suspensory member made of a piece or strip of flat metal and Fig. 4 is a front view of Fig. 3.

Fig. 5 is a cross section of a radiator having the columns disposed vertically and a plan view of the hanger engaged therewith, and Fig. 6 is a cross section of a radiator with the columns disposed horizontally and with the form of flat hanger shown in Figs. 3 and 4. Fig. 7 is a cross section on line 7—7, Fig. 4 and Fig. 8 is a plan view of the radiator clamping member including a threaded hook bolt and spring wedge therewith adapted to enter between the folds or columns of the radiator.

As thus shown in the several views the device embodies what may be termed a wall member or bracket proper *b*, consisting in the present showing of a flat strip of metal bent at both ends to substantially L-shape and provided with screw or nail holes through its extremities 2 by which it is secured to the wall or other support. This brings the straight body portion of the bracket out from the wall the desired distance and also provides a shoulder or offset 4 at each end, and the upper of said shoulders has a bolt hole vertically through the same and a slot 5 is formed lengthwise in the upper portion of the straight body of the bracket adapted to accommodate the immediate suspensory means for the radiator therein as the same is engaged through said slot upon the bolt or screw *c* occupying the hole in said upper shoulder 4, and which preferably has its head at the bottom and a nut at the top over said shoulder for convenience in making adjustments.

In Figs. 1 and 2 the hanger member *h* is shown as fashioned from a rod, and has its upper end bent at right angles and formed with an eye or loop 7 through which the screw *c* is threaded while the lower end thereof is bent to approximately hook or stirrup shape, or to such shape as will be best adapted to engage under the radiator and serve as the rest or seat therefor. The shank of the said hanger next to loop 7 runs in slot 5 which affords all the room required for fixing the hanger at different elevations in respect to the bracket *b* and according to the size and construction of the radiator to be carried thereby. The body portion of the said hanger is straight and rests its full length against the body of the bracket *b* and in its lowest position always bears against the said bracket. This precaution and arrangement insures a back support or brace for the hanger in or at the heel of the stirrup or rest 8 and where the strain is greatest under the weight of the radiator. In this connection it will be noticed that the hanger in no case can be lowered farther than shown in Figs. 1 and 3 and further security at this point is insured by the keeper *d*, which is slidably engaged upon the bracket and over the hanger *h* at the bend or shank of the stirrup or seat 8 and which holds said parts together in close sliding relation and accommodates any contraction or expansion that may occur in the parts at this point, especially in hanger *h*, Figs. 3 and 4, which is slightly narrower than the body of bracket *b*.

Finally, and as an auxiliary sustaining

medium for the radiator, I provide a so-called spring wedge *w* adapted to enter between two columns or folds of the radiator R, as seen in Figs. 5 and 6, and which with the screw rod *r* is adapted to exert a clamping effect and sustain the radiator in upright position. The said rod has an eye 9 engaged upon the vertical screw *c* back of the slot 5 in the bracket. The said wedge is formed of a piece of spring metal into approximately U-shape but with its sides converging more or less from the bend or back thereof and which has a hole in its center adapted to remove the rod *r* and a tightening nut *n* on said rod or screw bears upon said back and serves to clamp the parts together. The stirrup 8 thus serves as the immediate support for the radiator and the spring wedge member *w* serves to sustain the radiator in fixed upright position.

In Figs. 3 and 4 the flat strap or strip of metal constituting the hanger or stirrup has opposite notches in its shank adapting it to slidably engage in slot 5, and a hole in its right angled end serves to make engagement upon the screw *c*.

What I claim is:

1. A combined bracket and hanger for radiators comprising a bracket having its ends bent at right angles to substantially L-shape and adapted to be secured to a fixed support, the upper of said ends having a vertically disposed hole and a screw bolt therein, the body of said bracket having a slot lengthwise at is top, a hanger having a seat for the radiator at its bottom and a right angled end at its top extending through said slot from the front and loosely engaged on said bolt, and a clamp for the radiator adapted to engage the folds thereof and comprising a screw engaged with said bolt through said slot.

2. In a combined bracket and hanger for radiators, a bracket and a hanger for the radiator adjustably secured on the face of the bracket, a clamp to secure the radiator to the bracket comprising a spring wedge adapted to enter between the folds of the radiator and a clamping screw therewith and means to secure the said hanger and the said screw to the upper end of the bracket, and a keeper engaging the lower end of the hanger and bracket slidably together.

3. A combined bracket and hanger for radiators comprising a bracket member having its ends offset to the rear at right angles and adapted to be fixed upon a wall and having a body portion standing apart from the wall provided with a longitudinal slot at its top, a substantially stirrup shaped hanger adapted to engage beneath the radiator and having a stem bent at right angles and extending rearwardly through said slot, a screw support in the upper shouldered end of said bracket on which said hanger is engaged, and a clamp for the radiator extending through said slot and engaged on said screw support above said hanger.

4. A combined bracket and hanger for radiators, comprising a bracket member having its ends bent rearward to substantially L-shape and adapted to be fixed to a wall support and provided with a flat body having a longitudinal slot at its upper end, a hanger for the radiator having a stirrup at its lower end adapted to engage beneath the radiator and the upper end thereof extending rearward through said slot, and said hanger of less length than the body portion of the bracket below said slot, and a keeper adjustably engaging said hanger with said bracket at the heel of said stirrup.

Signed at Cleveland, in the county of Cuyahoga, and State of Ohio, this 9″ day of July, 1920.

JOHN W. FARLEY.