April 16, 1929. A. B. LANGER 1,709,623

RADIATOR ATTACHMENT

Filed July 17, 1926

Fig. 1.

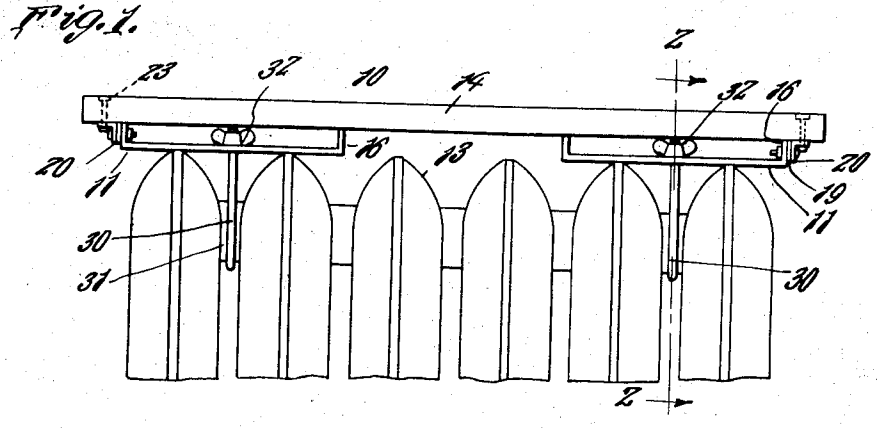


Fig. 3.

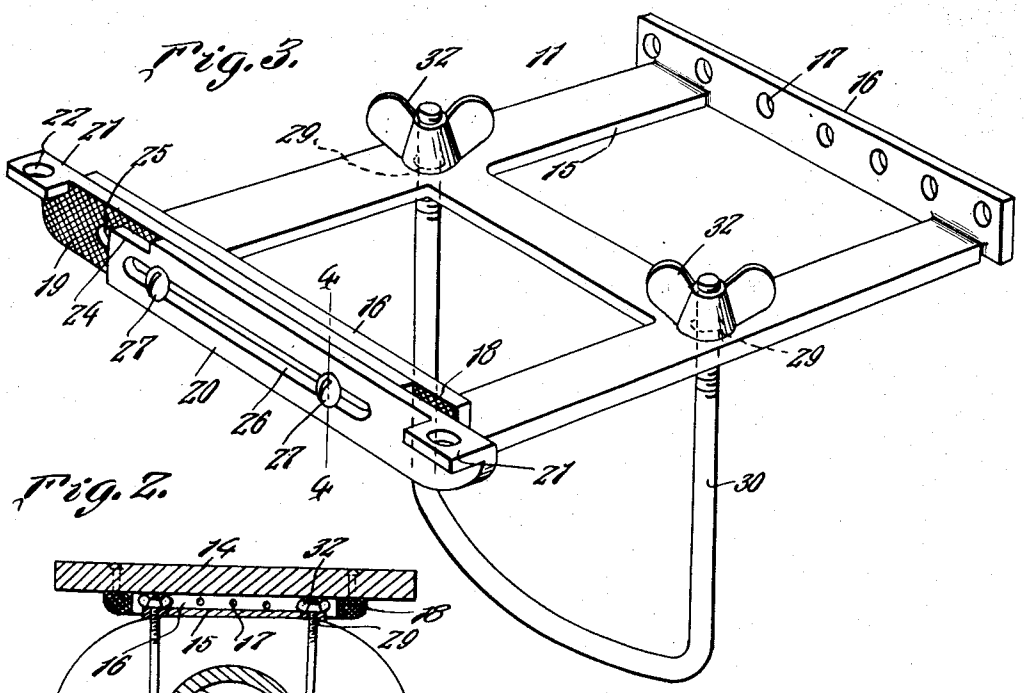


Fig. 2.

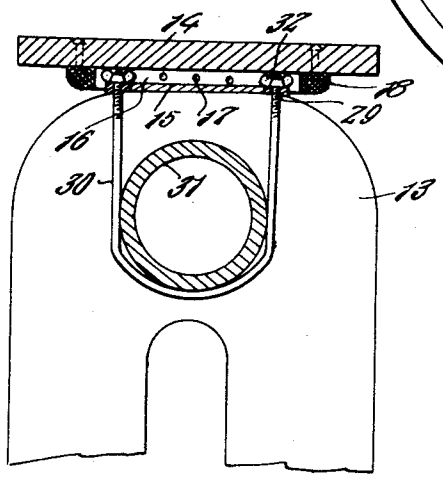
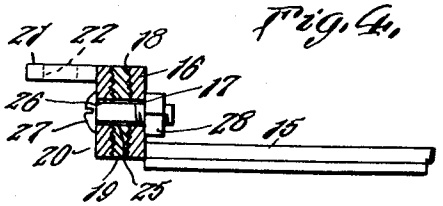


Fig. 4.



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UNITED STATES PATENT OFFICE.

ANTHONY B. LANGER, OF NEW YORK, N. Y.

RADIATOR ATTACHMENT.

Application filed July 17, 1926. Serial No. 123,193.

This invention relates to improvements in radiator attachments and particularly to a radiator shelf or seat.

The primary object of the invention resides in the provision of a bracket for supporting a shelf or seat in spaced relation and above the top of a steam or hot water radiator, whereby the radiator may give out correct radiation while plants or any other articles which might increase the attractiveness of a room may be set thereon.

Another object of the invention is the provision of a novel form of attaching bracket for rigid connection with a radiator, the supporting arms of which are capable of adjustment for supporting shelves or seats of different widths.

A still further object of the invention is to provide a supporting bracket which is simple in construction, easy to attach to a radiator and strong and durable for the purpose intended.

With these and other objects in view, the invention resides in certain novel construction and combination and arrangement of parts, the essential features of which are hereinafter fully described, are particularly pointed out in the appended claims, and are illustrated in the accompanying drawing, in which:—

Figure 1 is a front elevation of a radiator with my improved attachment in applied position thereon.

Figure 2 is a vertical transverse sectional view on the line 2—2 of Figure 1.

Figure 3 is a perspective view of one of the supporting brackets.

Figure 4 is a detail sectional view on the line 4—4 of Figure 3.

Referring more particularly to the drawing, the reference numeral 10 designates my improved attachment in its entirety and which includes a pair of spaced supporting brackets 11, 11 which are firmly mounted upon a steam or hot water radiator 13 adjacent the ends thereof for supporting a shelf or seat 14 in spaced relation thereto. The brackets 11, 11 are identical in construction, so that a description of one will suffice for the other.

Each bracket 11 comprises an H-shaped frame 15 having upstanding flanges 16 bridging the legs of the same at the ends thereof. The flanges 16 are provided with oppositely disposed openings 17, while the outer faces of the flanges are roughened or milled as at 18 for a purpose to be presently described. Extensible arms 19 and 20 are supported by the outer flange 16, the outer ends of the arms being provided with angularly bent lugs 21 having openings 22 therein for the passage of securing elements 23 which also pass through or partly through the shelf or seat 14 for fastening the latter to the brackets. The inner end of the arm 20 is recessed as at 24 for the accommodation of the lug 21 of the arm 19 when the arms are moved to a retracted position to lie within the confines of the ends of the flange 16. The arms 19 and 20 are provided with elongated slots 25 and 26 respectively which are disposed in alignment with the openings 17 for the passage of bolts 27, which receive coacting clamping nuts 28. The faces of the arms 19 and 20 are also milled or roughened for co-action with each other when in adjusted position, while the inner roughened faces of the arms 19 co-act with the roughened surfaces 18 on the flanges 16, whereby the arms are securely held against movement when the clamping nuts have been tightened. From the description thus far, it will be seen that by inserting the bolts through any of the desired openings 17 and slots 25 and 26, and tightening the nuts 28, the arms may be extended upon opposite sides of the frame to meet the width of the shelf or seat to be supported thereby. By this arrangement, the bracket has a relatively large range of adjustment so as to be extended beyond the front and rear of different width radiators to support a shelf capable of overlying the entire radiator.

When in position upon a radiator, the legs of the frame rest upon the top of the coils as shown in Figure 3 of the drawing, and the underside of the same are beveled inwardly to snugly fit thereon.

For rigidly supporting each of the brackets upon the radiator, I provide opposed openings 29 in the legs of the frame approximately midway between the ends of the bracket for the passage of the free ends of a U-shaped member or stirrup 30, which is inserted between two of the coils of the radiator, the legs of the member straddling the nipple 31 which connects the two coils together while the bight portion engages the nipple. The free end of the member extends through the openings and receive thumb nuts 32. It will be appreciated that by tightening up on the thumb nuts, the frame will be drawn tight against the radiator and firmly held in position thereon.

From the foregoing description, it will be seen that I have provided a shelf or seat attachment which is designed so that a direct

weight is equally divided on the supporting brackets, which brackets in turn have direct bearing on the radiator coils which permits the same to sustain any weight which the radiator itself is capable of supporting. It might be mentioned that by spacing the seat or shelf 14 from the top of the radiator coils, it is possible for the heat therefrom to freely radiate and at the same time keep the same in a relatively cool condition.

While I have described what I deem to be the most desirable embodiment of my invention, it is obvious that many of the details may be varied without in any way departing from the spirit of my invention, and I therefore do not limit myself to the exact details of construction herein set forth nor to anything less than the whole of my invention limited only by the appended claims.

What is claimed as new is:—

1. A radiator shelf or seat bracket comprising an H-shaped frame adapted to rest directly upon a radiator, upstanding flanges integral with said frame and bridging the legs thereof, said upstanding flanges having spaced openings provided therein, a pair of extensible arms supported by either of said flanges and respectively movable beyond opposite sides of said frame, said arms having elongated slots therein for register with the openings in the flange on which they are supported, fastening elements passing through certain of the openings and said slots for retaining said arms in adjusted position, angular shelf supporting lugs extending from the outer ends of said arms, and clamping means carried by said frame for attaching the bracket upon a radiator.

2. A radiator shelf or seat bracket comprising an H-shaped frame adapted to rest directly upon a radiator, upstanding flanges integral with said frame and bridging the legs thereof, said upstanding flanges having spaced openings provided therein, a pair of extensible arms supported by either of said flanges and respectively movable beyond opposite sides of said frame, said arms having elongated slots therein for register with the openings in the flange on which they are supported, co-acting friction surfaces between said arms, and between one of said arms and the exterior surface of the flange with which it engages, fastening elements passing through certain of the openings and said slots for retaining said arms in adjusted position, angular shelf supporting lugs extending from the outer ends of said arms, and clamping means carried by said frame for attaching the bracket upon a radiator.

3. A radiator shelf or seat bracket comprising a frame adapted to rest directly upon a radiator, upstanding flanges integral with said frame, said upstanding flanges having spaced openings provided therein, a pair of extensible arms supported by either of said flanges and respectively movable beyond opposite sides of said frame, said arms having elongated slots therein for register with the openings in the flange on which they are supported, fastening elements passing through certain of the openings and said slots for retaining said arms in adjusted position, and clamping means carried by said frame for attaching the bracket upon a radiator.

In testimony whereof I have affixed my signature.

ANTHONY B. LANGER.