May 1, 1928. 1,668,538

C. D. BRANDT

RADIATOR COVER

Filed March 2, 1927

Fig. 1.

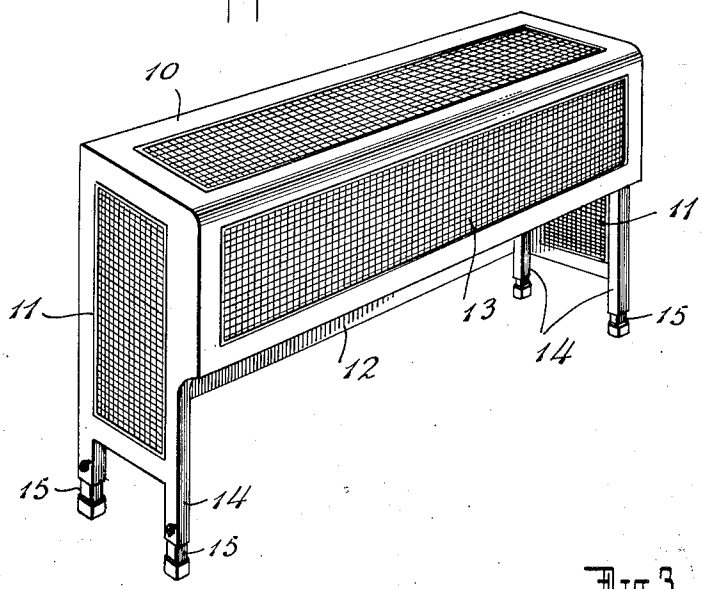


Fig. 2.

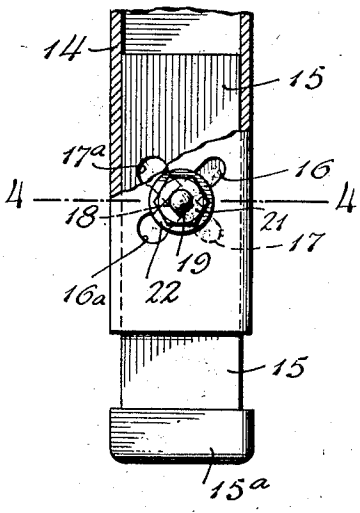


Fig. 3.

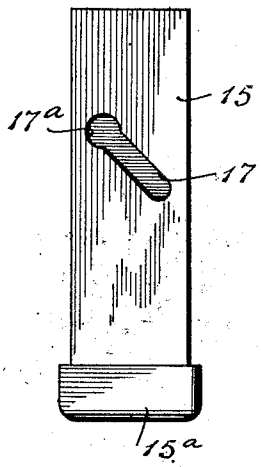
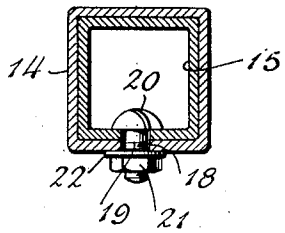


Fig. 4.



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Patented May 1, 1928. 1,668,538

UNITED STATES PATENT OFFICE.

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RADIATOR COVER.

Application filed March 2, 1927. Serial No. 172,146.

The invention relates to heating radiators as exemplified by the radiators such as constitute parts of heating systems for homes and other buildings or equivalent units. With such radiators, particularly those included in the heating systems of private homes, it is desirable to provide protecting covers which prevent the vapors rising therefrom when said radiators are actively in use, from soiling or otherwise marring adjacent woodwork, plaster and particularly draperies such as curtains. The particular object of the present invention is to provide adjustable supporting devices, incorporated in said covers as parts thereof, whereby the radiator covers may be adjusted to compensate for unevenness in the floor adjacent to a given radiator and whereby the vertical dimensions of the covers may be varied, within the range of the device. Other objects of the invention will appear from the description hereinafter and the features of novelty will be pointed out in the claims.

In the accompanying drawings, which show an example of the invention without defining its limits, Fig. 1 is a perspective view of a conventional cover for radiators with the invention applied thereto; Fig. 2 is a detail view of the novel adjusting device; Fig. 3 is a detail view of one element thereof, and Fig. 4 is a detail section on the line 4—4 of Fig. 2.

Radiator covers of the kind under discussion generally comprise a top 10 dimensioned and shaped to lie above and preferably in spaced relation to the top of an ordinary radiator to cover the same, and supported upon end members 11 which are intended to rest upon the floor or other surface upon which the radiator stands. The cover usually also includes a back 12 arranged to extend in back of the radiator between an adjacent wall and further may be provided with a front apron 13 depending from the top 10 in front of the raidator and usually of reduced width, as indicated in Fig. 1, so as not to interfere with the radiation of heat from said radiator.

Because of the fact that the floor in proximity to a given radiator is very often uneven or is made so by the presence of carpets or the like adjacent to said radiator, the supporting feet of the radiator covers in such cases do not stand level and sometimes do not, in part, even engage the floor. Furthermore, because of differences which exist in the vertical dimensions of the radiators themselves, or in the positions which they occupy, said covers are ofttimes incapable of being properly positioned upon a given radiator. To obviate these disadvantages and to make it possible to firmly and properly support said cover upon the floor or other surface, on which the radiator stands, and to properly adjust the cover with respect to the radiator with which it is to be combined, the novel adjusting means is combined with said cover.

In the illustrated example the means comprises tubular members 14, preferably of non-circular cross section and shown of rectangular form, and located at the lower portions of the side members 11, said members 14 preferably comprising depending front and rear extensions of the side members 11 as indicated in Fig. 1. Hollow supporting members 15 of a cross-sectional form complemental to that of the tubular members 14 are telescopically fitted into the latter so as to be slidable relatively thereto; in the preferred form the supporting members 15 at their lower ends are provided with caps 16 which not only provide more efficient supporting rests but also limit the extent to which the members 15 may telescope into the members 14. The illustrated arrangement with respect to the members 14 and 15 may be reversed without detracting from the efficiency of the device; that is the members 14 instead of telescoping over the members 15 may slide into the same. In any case the members 14 and 15 are provided in walls which are in slidable surface relation to each other with closed slots 16 and 17 respectively, said slots 16 and 17 being located upon the respective members 14 and 15 so as to intersect each other in diagonal directions and to thereby at all times define a rectangular opening 18 at the crossing points of any two co-operating slots. In the preferred arrangement and in order to facilitate as-

sembling of the parts the slots 16 and 17 at corresponding ends, are provided with relatively enlarged recesses 16^a and 17^a respectively. A fastening device in the form of a bolt 19 passes through the opening 18 and at its inner end is provided with a head 20 or its equivalent which bears against the inner surface of the slotted wall of the member 14 and at its outer exposed end is screw threaded for the accommodation of a nut 21 or its equivalent. If desired, washers 22 may be located between the nuts 21 and the members 14.

In utilizing the device for the purpose of levelling the radiator cover upon an uneven floor, the nuts 21 or their equivalent are loosened and the members 15 are slidably adjusted in the members 14 in such a manner that all of the caps 16 of the different supporting members will properly engage and rest upon the floor and the top 10 of the radiator cover will be horizontally level. By screwing up the nuts 21 the members 15 may be fixed in the proper adjustment to maintain the above results. In addition to the above, the device may be used within its limits for adjusting the height of the cover with respect to the radiator with which it is to be combined. In such case the nuts 21 or their equivalent having been loosened, the members 15 are slidably adjusted in the members 14 to position the top 10 of the radiator cover at the desired height with respect to the radiator top, and in this position to firmly set the heads 16 in engagement with the floor or equivalent surface upon which the radiator stands. When the proper adjustment has been secured the nuts 21 are again tightened to draw the heads 20 against the members 15 and to press the washers 22 against the members 14 whereby the members 14 and 15 of each pair are firmly clamped in position against unintentional relative movements.

As the members 15 in either case are telescopically adjusted relatively to the members 14, the bolts 19 because of the diagonal relation of the slots 16 and 17 will automatically ride lengthwise of said slots 16 and 17 as the rectangular opening 18 shifts its position lengthwise thereof. In any and all positions of the members 15 relatively to the members 14, said bolts 19 are thus accommodated in bolt openings which prevent displacement of said bolts out of the positions they occupy in any given adjustment of the members 14 and 15. In other words, the bolts 19 are positively held against displacement lengthwise of the slots and consequently are automatically set in the most efficient positions in all adjustments of the members 15. As a result of this the parts are firmly and securely set in any position without effort and without requiring an excessive tightening of the nuts 21 or their equivalent; consequently changes in adjustments are easily accomplished at will.

With the device in question the radiator cover may be levelled or otherwise adjusted to a position of maximum efficiency on the floor or other surface and may be properly fitted upon the radiator so as to present at all times an attractive finished appearance.

In assembling the parts the members 14 and 15 are telescopically positioned with respect to each to bring the enlarged recesses 16^a and 17^a of the slots 16 and 17 into registry with each other. The heads 20 of the bolts 19 are then passed inwardly through the recesses 16^a and 17^a which are dimensioned to permit this, after which the members 14 and 15 are slidably shifted to bring the bolts 19 into the slots 16 and 17 which are too narrow to permit the heads 20 to pass through. The nuts 21 may be screwed on to the bolts 19 prior to the insertion of the heads 20 as described or subsequently thereto. In order to facilitate this operation the caps 16 are preferably fixed upon the members 15 after the above assembling operation has been completed in order to enable the heads 20 to be suitably held to prevent rotation of the bolts 19 while the nuts 21 are being screwed thereon.

While the novel means is designed primarily for radiator covers, it obviously may be used in combination with other devices having supporting functions in vertical directions and requiring adjustment as to position or levelling such as the legs of tables, chairs and kindred articles.

Various changes in the specific form shown and described may be made within the scope of the claims without departing from the spirit of the invention.

I claim:

1. A radiator cover including a top, end members for supporting said top in operative position, telescopic supporting members depending from said end members and provided with intersecting slots located in diagonal relation to each other, and clamping devices extending through said slots at their points of intersection for clamping said telescopic members in adjusted positions.

2. An adjustable device comprising a tubular member having a supporting function in an upright position, a hollow supporting member telescopically combined with said tubular member, said members being provided in contiguous walls, with slots which intersect each other in diagonal directions, and a clamping device extending through said slots at their point of intersection to clamp said members in an adjusted position.

3. An adjustable device comprising a tubular member of rectangular cross-section having a supporting function in an upright

position, a hollow supporting member having a cross-section complemental to that of the tubular member and slidably mounted within the same, said members being provided, in walls which are in slidable surface relation, with slots which intersect each other in diagonal directions, and a bolt extending through said slots at their point of intersection for clamping said supporting member in an adjusted position.

In testimony whereof I have hereunto set my hand.

CHARLES D. BRANDT.