May 26, 1931. V. E. WHEATCROFT 1,807,363

COLLAPSIBLE RACK FOR RADIATORS

Filed Feb. 6, 1929

Fig. 2.

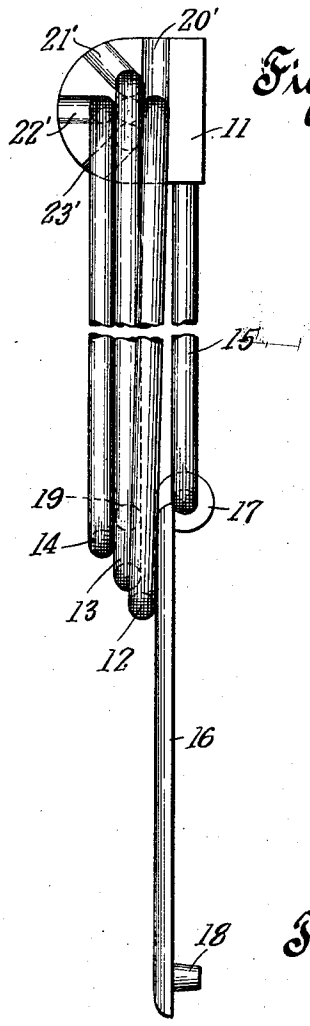


Fig. 1.

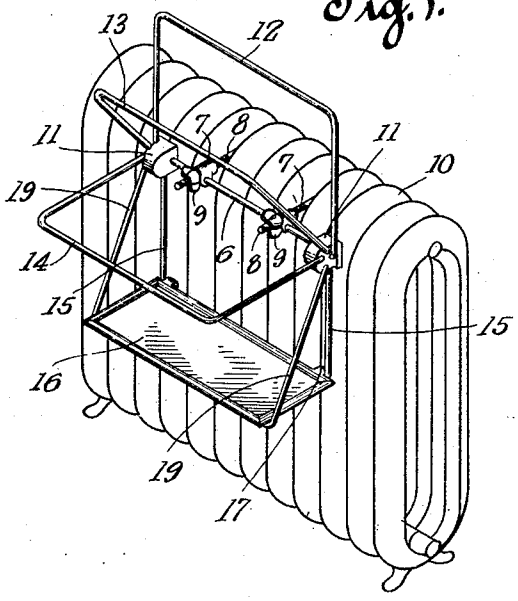


Fig. 3.

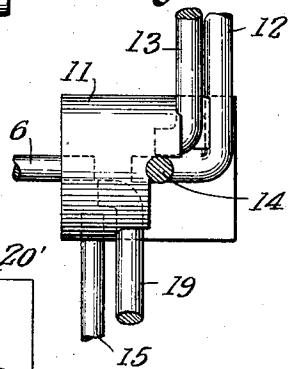


Fig. 4.

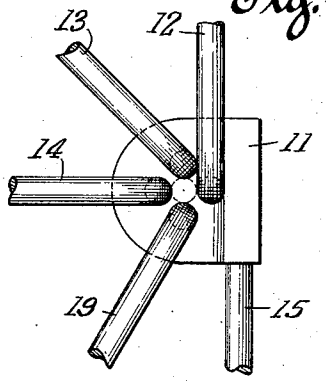
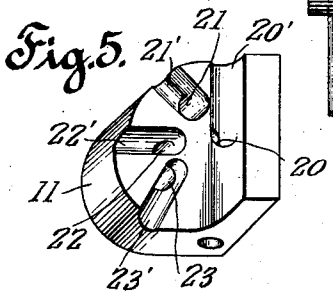


Fig. 5.



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UNITED STATES PATENT OFFICE

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COLLAPSIBLE RACK FOR RADIATORS

Application filed February 6, 1929. Serial No. 337,774.

This invention relates to clothes drying devices and more particularly to racks adapted to be attached to the ordinary forms of steam or hot water heating radiators as used in dwellings.

While devices of the character described are well known and have been used for many years, it has been found that the manipulation of such devices is inconvenient, as some difficulty is usually encountered in adjusting the racks of the device to various positions.

It is therefore, an object of the invention to provide a clothes drying device having means by which the various racks may be easily adjusted into operative positions in which they are securely held, or folded flat when not in use closely against the radiator.

A further feature is in the provision of a shelf, extensible or collapsible at will, which can be used as a support for articles to be warmed or a foot rest as may be desired.

These and other like objects are accomplished by the novel construction, combination and arrangement of parts, hereinafter described and shown in the accompanying drawings, constituting a material part of this disclosure, and in which:—

Figure 1 is a perspective view showing the drying rack attached to a radiator.

Figure 2 is a side view of the drying rack in a collapsed position, drawn to an enlarged scale.

Figure 3 is a front view of one of the pivot blocks used in the device drawn to a further enlarged scale.

Figure 4 is a side view of the pivot block shown in Figure 3.

Figure 5 is a perspective view of the pivot block.

Referring to the drawings, the drying rack is shown to include a tie or base rod 6 which passes through two collars 7, the latter accommodating transverse rods 8 which cooperate with wing nuts 9 to clamp the device to a radiator 10.

The tie rod 6 has attached at each end a pivot block 11 arranged in opposed relation and in the outer faces of which are pivoted the increasing ends of racks 12, 13, 14, upon which clothes may be hung to be dried, the racks decreasing in length and width from the outermost to permit folding one over another. Also rigidly attached to the under side of the pivot blocks 11 are rods 15 pivotally supporting the rear edge of a plate 16, by engaging in bosses 17, the plate having a level outer surface provided with a beaded edge and on its rear surface, at the lower corners are lugs 18 to engage a loop 19 of slightly lesser dimensions than the smallest rack 14, and like it, pivoted in the outer ends of the blocks 11.

The pivot blocks 11 are provided with a plurality of recesses to accommodate the bent ends of the racks and rods, the recesses all being in different planes. As shown the rod 12 is pivoted in recesses 20 which communicates with grooves 20′ into which the rod ends snap when placed in operative position. Rods 13, 14, 19, are respectively pivoted in recesses 21, 22, 23, which communicate with grooves 21′, 22′, 23′, in which the rods snap when placed in operative positions, and it is to be noted that the recesses and grooves for each rod are in different vertical planes, producing distinct abutments therebetween.

It will be readily seen that the arrangement of the recesses in different planes enable the drying racks to be easily and conveniently collapsed as shown in Figure 2, and the grooves communicating with the recesses serve to positively hold the racks in operative positions, changes from collapsed to operative position of one or more of the racks being readily made by raising the rack to engage in the grooves, and to fold the racks their ends only require springing apart to become released from the grooves.

Thus a relatively large quantity of clothing may be conveniently displayed closely adjacent to a radiator, while small articles as milk bottles, etc. can be disposed upon the plate 16.

Obviously the pivot blocks 11 serve to support the racks, rods and plate firmly and securely in whatever position they may be disposed, and it will be seen that when the device is collapsed the plate and racks fold downwardly, closely against the side of the radiator.

From the foregoing it will be seen that a simple device for this purpose has been disclosed in the preferred form of its embodiment, but it is not desired to restrict the details to the exact construction shown, it being obvious that changes, not involving the exercise of the invention, may be made without conflicting with the scope of the appended claims.

Having thus described the invention, what is claimed as new and desired to secure by Letters Patent, is:—

1. In a drying device, a pivot block (having a smooth arcuate outer face, a fixed support rod set axially in said block, a pendant rod fixed in the under side of said block, a plate pivotally connected to said pendant rod, and means to support the free edge of the plate.

2. In a drying rack, a pair of opposed pivot blocks, a support rod rigidly connecting therebetween, said blocks having progressively offset steps on their outer sides, each step containing a pivot recess and a groove leading outwardly therefrom, and rods bent to form looped racks differing in length and width having inreaching ends to engage in the recesses, the parts of said rods adjacent their ends being engageable in the grooves.

3. In a drying device, a pivot block having a smooth arcuate outer face, a fixed support rod set axially in said block, a pendant rod fixed in the under side of said block, a plate pivotally connected to said pendant rod, means to support the free edge of the plate, said means comprising lugs attached on the outer side and near the outer edge of said plate, and a looped rod pivotally mounted in said block and engageable under the plate and against said lugs when said plate is in a horizontal position.

4. In a clothes drying device having a plurality of rods bent to serve as racks, a pair of blocks having a plurality of inwardly offset recesses in which the rods are pivoted, such recesses being in different planes, said blocks being clamped directly to a radiator and having a smooth arcuate face, a rod passing transversely through said blocks to retain them in spaced relation, a looped rod pivoted at its ends on said blocks, and a plate hingedly engaged by said looped rod.

In testimony whereof I affix my signature.

V. E. WHEATCROFT.