March 10, 1925. 1,529,231

E. H. ARNOLD

DRYING RACK

Filed March 12, 1923

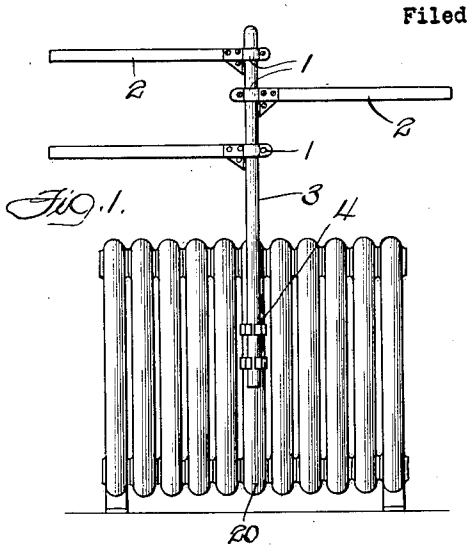


Fig. 1.

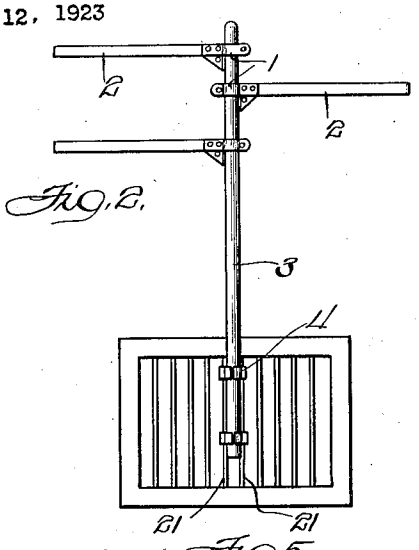


Fig. 2.

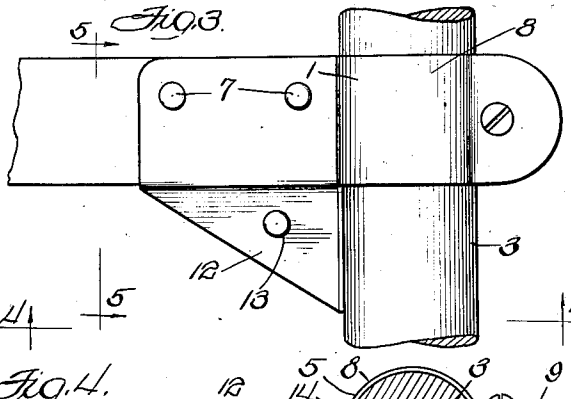


Fig. 3.

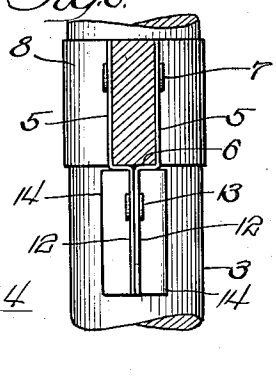


Fig. 5.

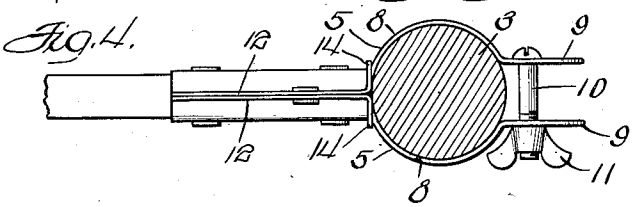


Fig. 4.

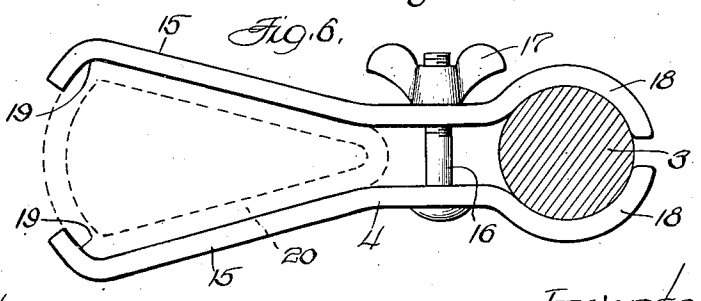


Fig. 6.

Witnesses:
W. K. Olson
Geo. E. Anderson,

Inventor:
Edwin H. Arnold,
By Rummler & Rummler,
Attys.

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UNITED STATES PATENT OFFICE.

EDWIN H. ARNOLD, OF MAYWOOD, ILLINOIS, ASSIGNOR OF ONE-HALF TO GUSTAV W. ARNOLD, OF WINNETKA, ILLINOIS.

DRYING RACK.

Application filed March 12, 1923. Serial No. 624,473.

To all whom it may concern:

Be it known that I, EDWIN H. ARNOLD, a citizen of the United States of America, and a resident of Maywood, county of Cook, and State of Illinois, have invented a new and useful Improvement in Drying Racks, of which the following is a specification.

This invention relates to racks, and particularly to clothes drying racks for household use.

The main objects of this invention are to provide an improved form of clothes drying rack which is adapted for ready attachment to a radiator, hot air register, or other similar heating unit; to provide improved means for adjustably securing together the separate parts of a rack and for bracing them in their assembled relation; and to provide improved means for securing the upright standard of the rack to the heating unit.

An illustrative embodiment of this invention is shown in the accompanying drawings, wherein:

Figure 1 is a side elevation showing the drying rack applied to a steam or hot water radiator.

Figure 2 is a view similar to Figure 1, showing the rack applied to a hot air register.

Figure 3 is an enlarged detail in elevation of one of the fastening clips, part of one of the supporting arms and upright standard being also shown.

Figure 4 is a horizontal section taken on the line 4—4 of Figure 3.

Figure 5 is a transverse section taken on the line 5—5 of Figure 3.

Figure 6 is an enlarged detail of one of the clamps which secure the standard to the heating unit, the standard being shown in section and one of the heating coils being shown in dotted outline.

The improved rack is adapted for various household uses, but the particular embodiment herein illustrated is arranged for attachment to a steam or hot water radiator, or a hot air register or other similar heating unit, so that the heated air rising from the unit may be utilized for drying purposes.

The rack as shown includes improved clips 1 for fastening the horizontal supporting arms 2 to an upright standard 3. The clips are arranged to permit the supporting arms to be adjusted angularly and vertically on the standard.

The standard 3 is mounted on the heating unit by means of clamps 4.

The clips 1 are preferably sheet metal stampings, and each comprises a pair of complementary members 5, which are formed at one end to provide a socket or seat 6 for receiving the inner end of the supporting arm 2. In the form shown, the seat 6 is U-shaped to conform to the contour of the supporting arm, which, as illustrated, is a stick of rectangular cross section. The members 5 are rigidly secured together and to the supporting arm by rivets 7.

The members 5 are also formed to provide jaws 8, adapted to slidably embrace the standard which, as illustrated, is in the form of a cylindrical pole. Projecting outwardly from the jaws 8, are ears 9 engaged by a clamping screw 10 and a wing-nut 11 for drawing the jaws together to clamp the standard.

Formed on the members 5 below the seat 6, is a pair of triangular parts 12, which are riveted, spot-welded or otherwise rigidly secured together, as shown at 13, to form a depending brace or gusset to secure the arm against tilting. To prevent possible marring of the finished surface of the pole 3 by the gusset when the supporting arm is being shifted, the inner edges of the triangular parts 12 are bent outwardly to form flanges 14, presenting a smooth bearing surface to the standard.

The clamps 4 by which the rack is mounted on the heating unit are preferably made of wrought iron, and each comprises a pair of members 15 of identical construction, connected at their medial parts by a clamping screw 16 and a wing-nut 17. The members 15 are formed to provide jaws 18 and 19 arranged to grip the standard 3 and a part of the heating unit, respectively. This form of clamp permits the upright standard to be readily adjusted as to height. When the rack is applied to a radiator, as shown in Figure 1, the clamps 4 grip one of the radiator coils 20. When the device is applied to a hot air register, as shown in Figure 2, the clamps 4 grip two adjacent bars 21

of the register. In the form shown, the standard is supported by two of the clamps 4.

The parts are designed to permit the device to be readily set up for use, and also to be compactly stored when the rack is not in use.

Although but one specific embodiment of this invention has been herein shown and described, it will be understood that some of the details of the construction shown may be altered or omitted without departing from the spirit of this invention as defined by the following claims.

I claim:

1. A rack comprising an upright standard in combination with an arm arranged transversely thereto, and a clip mounted on one end of said arm and having adjustable means embracing said standard and having a part forming a brace extending between said arm and standard to secure said arm against tilting.

2. A rack comprising an upright standard in combination with an arm arranged transversely thereto, a clip mounted on one end of said arm and having jaws adapted to slidably embrace said standard, said clip having a depending part forming a gusset arranged to brace said arm against vertical tilting, and means for adjusting said jaws to grip the standard.

3. A rack comprising an upright rod in combination with a supporting arm arranged at an angle thereto, a sheet metal clip rigidly mounted on one end of said arm and being formed to provide a pair of arcuate jaws adapted to slidably embrace said rod whereby said arm is adjustable axially and angularly with respect to said rod, said clip having an integral depending part forming a gusset arranged to brace said arm against said rod to secure said arm against tilting, and means for clamping said jaws to said rod.

4. A rack comprising an upright rod in combination with a supporting arm arranged at an angle thereto, a sheet metal clip including a pair of complementary members having one end formed to provide a seat arranged to receive the inner end of said arm, the other end of said members being formed to provide a pair of arcuate jaws adapted to slidably embrace said rod whereby said arm is adjustable axially and angularly with respect to said rod, said clip members having depending parts located below said seat and forming a gusset arranged to brace said arm against said rod to secure said arm against tilting, and means for clamping said jaws to said rod.

5. The combination with a heating unit of a drying rack comprising an upright rod, a supporting arm arranged at an angle thereto, a sheet metal clip rigidly mounted on said arm and including a pair of complementary members having one end formed to provide a substantially U-shaped seat arranged to receive the inner end of said arm, said members having opposed parts formed to provide a pair of arcuate jaws adapted to slidably embrace said rod whereby said arm is adjustable axially and angularly with respect to said rod, said clip members having depending parts located below said seat and forming a gusset to brace said arm against vertical tilting, means for clamping said jaws to said rod, and a clamp for detachably securing said rod to the heating unit.

Signed at Chicago this 10 day of March 1923.

EDWIN H. ARNOLD.