R. T. MULLEN AND J. W. MOORE.

WALL HANGER FOR RADIATORS.

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1,306,272.

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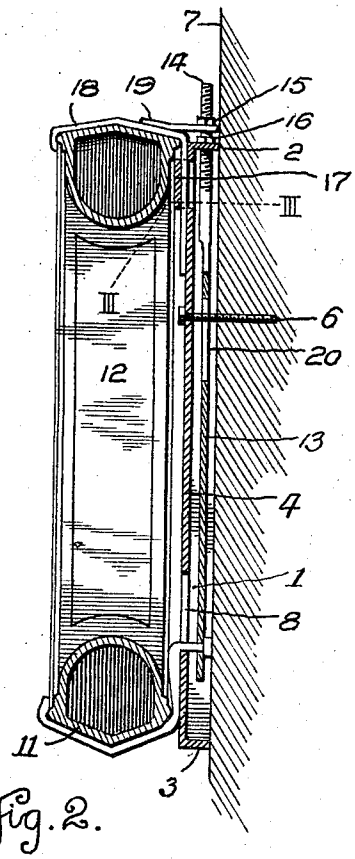


Fig. 2.

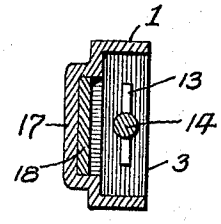


Fig. 3.

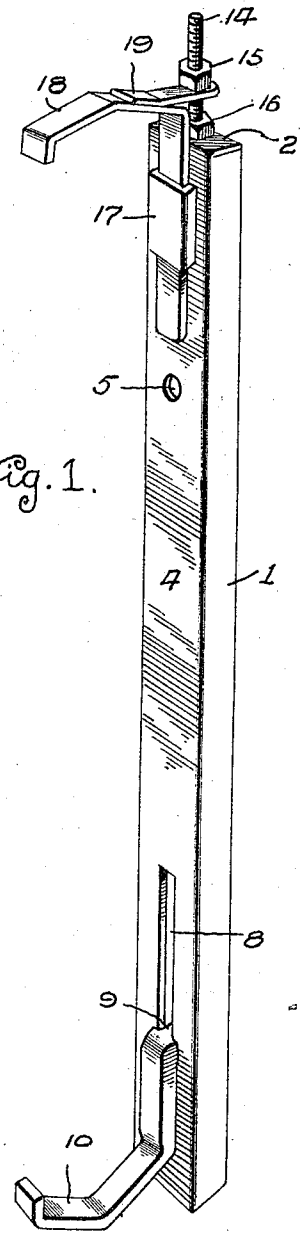


Fig. 1.

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UNITED STATES PATENT OFFICE.

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WALL-HANGER FOR RADIATORS.

1,306,272. Specification of Letters Patent. Patented June 10, 1919.

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To all whom it may concern:

Be it known that we, ROBERT T. MULLEN and JOHN W. MOORE, citizens of the United States of America, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Wall-Hangers for Radiators, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to wall hangers for radiators and other heavy structures, and the primary object of our invention is to provide a wall structure with adjustable supports and brackets by which a radiator of a desired size may be safely and conveniently supported in parallelism with a wall. For a small radiator a single hanger may be employed, but in actual practice two or more hangers are used for supporting a radiator in a horizontal position in parallelism with a wall or similar support.

A further object of our invention is to provide a simple, durable and inexpensive hanger that may be easily and quickly attached to a support, and adjusted so as to positively grip and safely hold a radiator or other structure relative to a suitable support.

The above and other objects are attained by a mechanical construction which will be hereinafter specifically described and then claimed, and reference will now be had to the drawing, wherein—

Figure 1 is a perspective view of the wall hanger;

Fig. 2 is a vertical sectional view of the same as attached to a wall and as supporting a conventional form of single column radiator, and

Fig. 3 is an enlarged cross sectional view taken on the line III—III of Fig. 2.

The wall hanger, as now constructed, comprises a channel member 1 having end walls 2 and 3 with the front wall 4 of said member provided with an opening 5 to receive a screw bolt 6 or other fastening means which permits of the member 1 being clamped and held against a wall 7 or other support.

The lower end of the wall 4 has a longitudinal slot 8 and extending therein is the shank or reduced end 9 of a support 10, said support being shaped to conform to the bottom 11 of a wall radiator 12. The support 10 bears against the wall 4 of the member 1 and is normally maintained at right angles thereto, but may be raised and lowered within the limits of the slot 8. The shank 9 of the support is attached to the lower end of a flat bar 13 disposed longitudinally within the member 1, said bar having the upper end thereof terminating in a bolt 14 which extends through the top wall 2 of the member 1, and is provided with shiftable nuts 15 and 16, the latter supporting the bolt 14 relative to the top wall 2 of the member 1.

Adjacent the upper end of the member 1 is a channel guide 17 which is preferably pressed out from the wall 4 of said member, and slidable in the guide 17 is a bracket 18 adapted to overhang and engage the top of the radiator 12, so as to coöperate with the support 10 in firmly maintaining the radiator in an upright position in parallelism with the wall 7. The bracket 18 has a rearwardly protruding extension 19 through which the bolt 14 extends and the nut 15 is adjusted to engage the upper face of the extension 19 and hold the bracket 18 clamped on the top of the radiator 12.

The flat bar 13 within the member 1 has a longitudinal slot 20 providing clearance for the screw bolt 6, as best shown in Fig. 2.

From the foregoing it will be observed that the hanger as an entirety may be secured in a desired position on the wall 7 and with the support 10 properly adjusted for a radiator of known size, the radiator can be placed on the support 10 and then the bracket 18 adjusted to grip the top of the radiator and hold it in a vertical position. With the bracket 18 adjustable independently of the support 10, it is possible to firmly hold various kinds of structures relative to the wall and we attach considerable importance to the radiator being suspended from a single point, as it may swing or shift due to expansion and contraction, without any danger of the radiator becoming displaced.

It is also possible to make the support 10 and the bracket 18 on a small scale so that pictures may be safely supported relative to a wall, and while in the drawing there is illustrated a preferred embodiment of our invention, it is to be understood that the

structural elements are susceptible to such variations and modifications as fall within the appended claim.

What we claim is:—

A device of the type described comprising a channel wall member, a support adjustable at the lower end of said member and extending therein, a bar in said member having its lower end connected to said support, a bolt at the upper end of said bar extending out of the upper end of said member, a guide at the upper end of said member, a bracket slidable in said guide, a rearward extension carried by said bracket and through which said bolt extends, and nuts on said bolt engaging said extension and the top of said member so as to permit of said support and said bracket being adjusted independent of each other.

In testimony whereof we affix our signatures in presence of two witnesses.

ROBERT T. MULLEN.
JOHN W. MOORE.

Witnesses:
KARL H. BUTLER,
ANNA M. DORR.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."