

(No Model.)

A. J. BENNETT.
RADIATOR SHELF.

No. 502,871.

Patented Aug. 8, 1893.

Fig. 1.

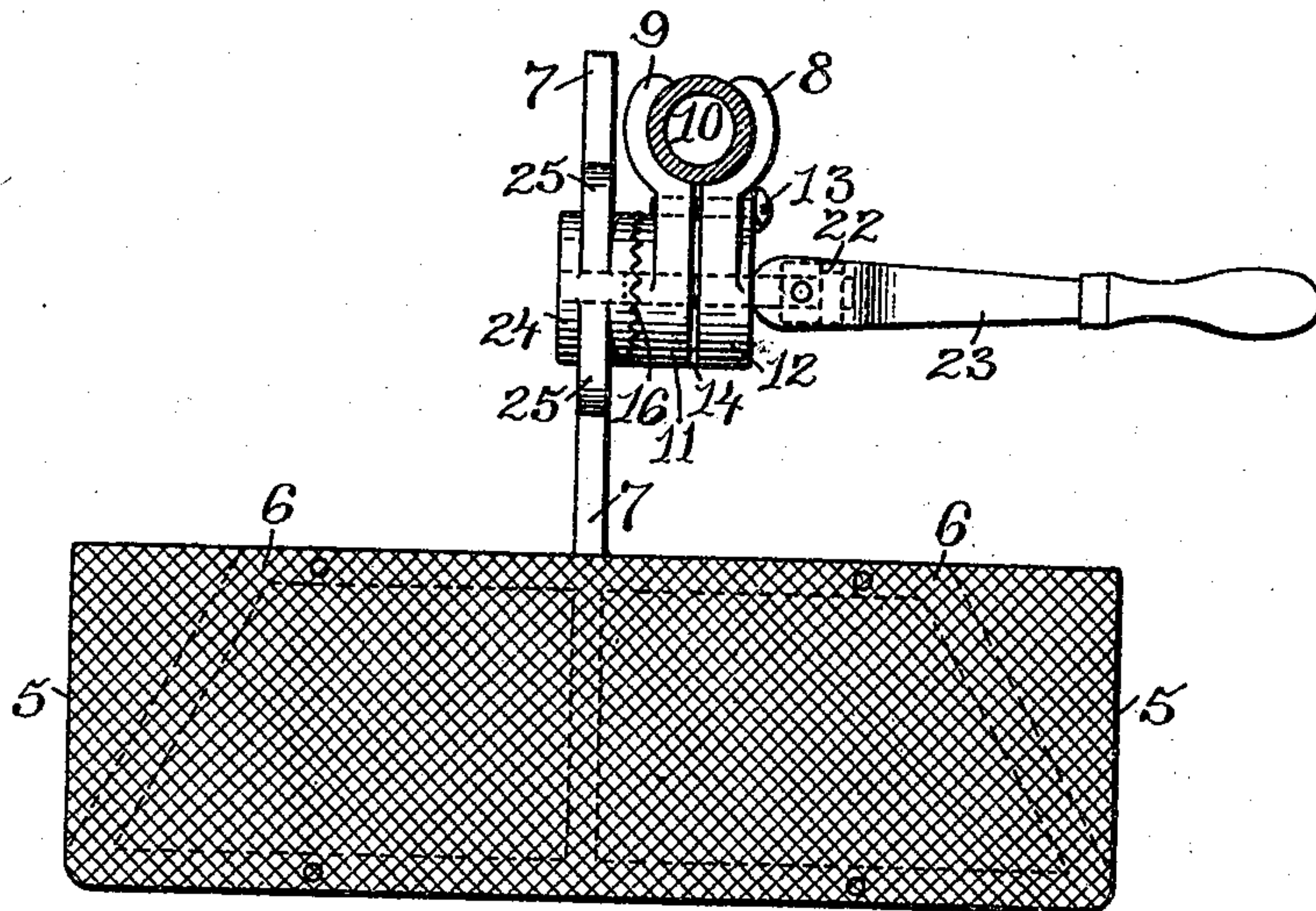


Fig. 2.

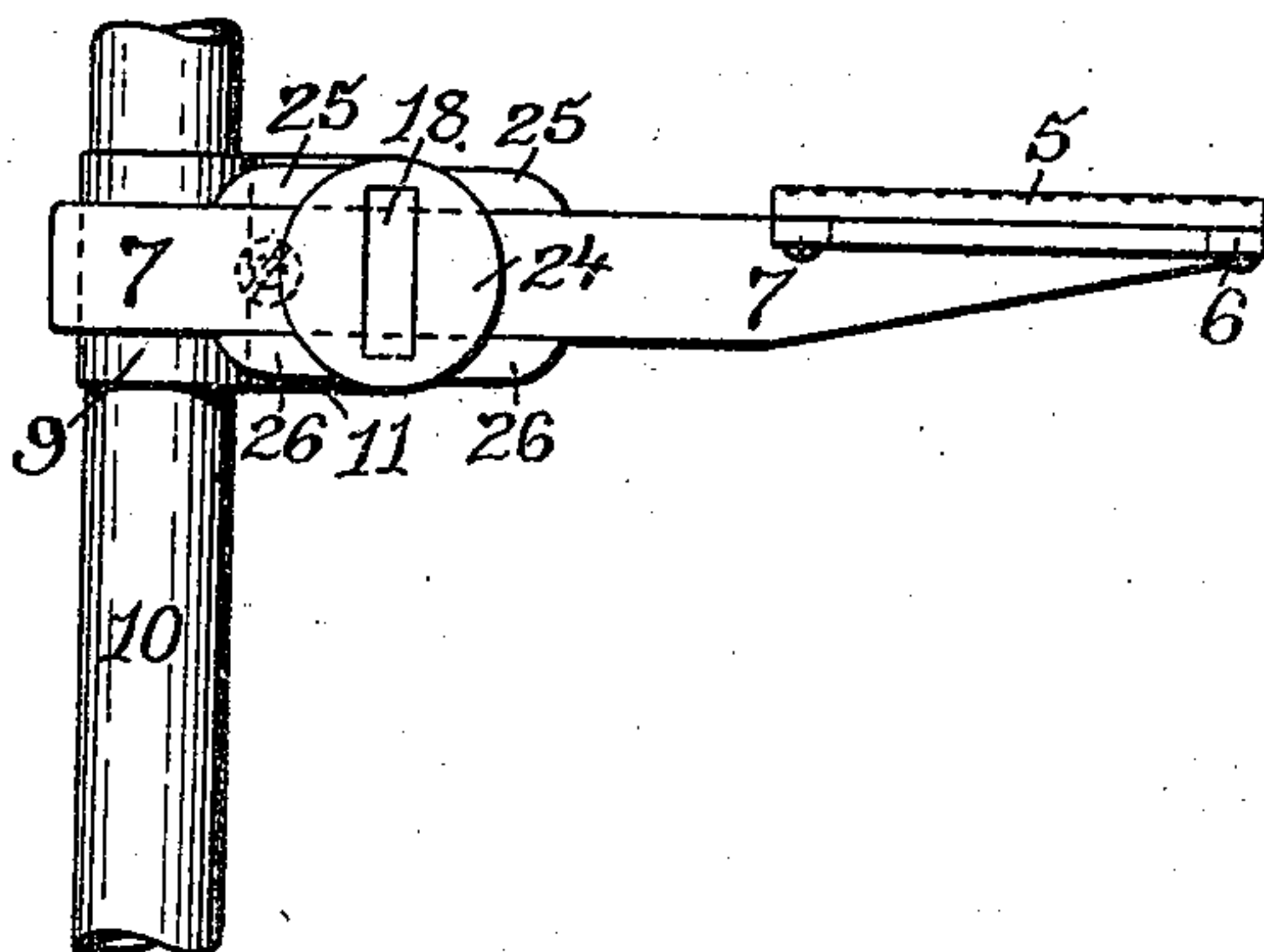
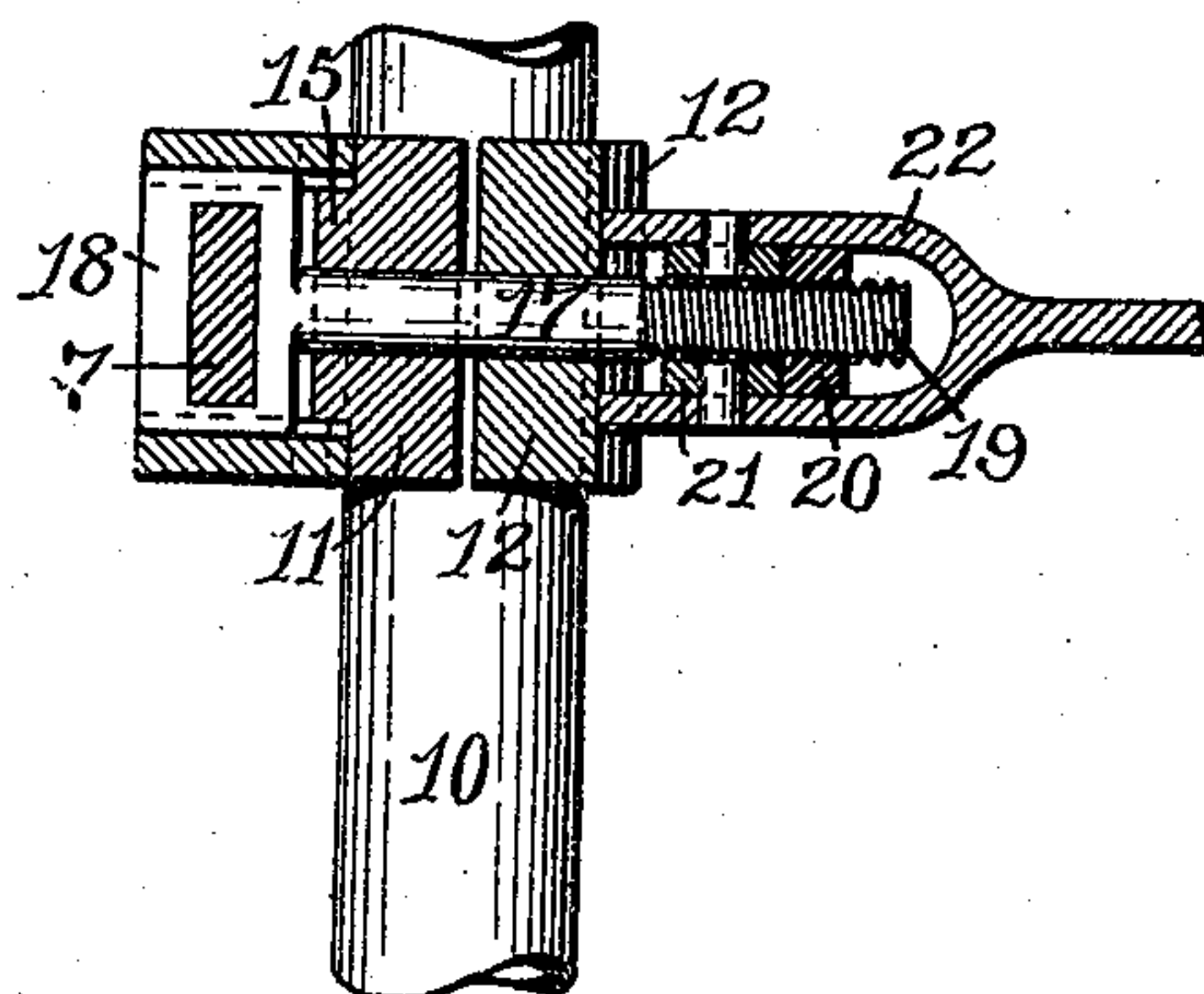


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ALBERT J. BENNETT, OF WOONSOCKET, RHODE ISLAND.

RADIATOR-SHELF.

SPECIFICATION forming part of Letters Patent No. 502,871, dated August 8, 1893.

Application filed January 24, 1893. Serial No. 459,574. (No model.)

To all whom it may concern:

Be it known that I, ALBERT J. BENNETT, of Woonsocket, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Radiator-Shelves; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

This invention has reference to improvements in adjustable-shelves for radiators.

The object of the invention is to so construct a shelf, which is also adapted to serve as a foot-rest, that it may be adjustably secured to the tube of a radiator in a convenient position.

The further object of the invention is to provide a shelf, or foot-rest, with a clamping-device by which the shelf may be readily secured to a radiator and can be adjusted thereon.

The invention consists in the peculiar construction of the clamping-device and the combination therewith of a shelf, or rest, having a shank, as will hereinafter be more fully described and pointed out in the claims.

Figure 1 represents a top view of the improved shelf and clamp secured to a radiator-tube. Fig. 2 represents an end view thereof. Fig. 3 represents an enlarged vertical sectional view of the clamp to more clearly indicate its construction.

Similar numbers of reference designate corresponding parts throughout.

In the drawings 5 indicates a shelf, or rest, formed of a grating, and 6 is a supporting and strengthening frame to which the shelf is secured. Extending from the frame is a shank 7 a part of which may form the central-brace of the frame 6. The clamp is furnished with jaws 8 and 9 which are shaped to grasp the radiator-tube 10; these jaws extend from the circular-bases 11 and 12 and are drawn together by the screw 13 passing through a perforation in the base 12 and engaging a screw-threaded perforation in the base 11. The bases 11 and 12 are centrally perforated, the base 12 being furnished with a slight projection 14, and the base 11 having the central-hub 15 and the annular-ratchet 16. The clamping-bar 17 has an enlarged-end 18

through which a slot is formed which corresponds in shape with the cross-sectional shape of the shank 7; this bar is free to rotate in the perforations of the bases 11 and 12 and has a screw-thread 19 with which the check-nut 20 engages and thus limits the longitudinal movement of the sliding-block 21 which is mounted on this end of the clamping-bar.

Pivoted to the block 21 are the cam-arms of the frame 22 provided with a handle 23, the bearing of the cam-arms against the outer surface of the base 12 serving to force the block 21 against the check-nut 20 and exerting a drawing-strain on the clamping-bar. The supporting-block 24 has a central-depression on its inner surface which is surrounded by an annular-ratchet adapted to engage with the ratchet 16 of the base 11; this block is furnished with the braces 25 and 26 and has a transverse-slot between the braces through which the shank 7 may slide. The block 24 has also a slot, extending at right angles with that first mentioned, to receive the enlargement 18 of the clamping-bar. The jaws 8 and 9 having been secured to the radiator-tube 10 by the tightening of the screw 13, the shank 7 of the shelf is passed through the transverse-slot of the block 24 and through the slot in the enlargement 18 of the clamping-bar. The shelf is now adjusted at any desired angle with the radiator and the handle is brought to the position, shown in Fig. 1, on a line with the clamping-bar, thus clamping the shank 7 in the block 24 and drawing the ratchet of this block into engagement with the ratchet 16 of the base 11, which prevents the independent rotation of the block 24. The clamping of the shank 7 in the block 24 is an important feature as, when the shelf is used as a foot-rest and is inclined at a downward angle from the clamp, the shank would otherwise slip from the block 24. The cam-arms 22 also serve to more securely clamp the jaws 8 and 9 to the radiator-pipe.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination with a shelf provided with a supporting-shank, of a clamping-device having jaws, a cam-operated clamping-bar movable in perforations in the bases of said jaws and having a slotted-enlargement to re-

ceive the shelf-shank, and a block transversely slotted and having a central-opening, as described.

2. The combination with the jaws 8 and 9
5 extending from the perforated-bases 11 and 12, the screw 13 for partially securing the same, the ratchet 16 on the base 11, the ratchet-block 24 transversely and centrally slotted having braces 25 and 26, the clamping-bar 17,
10 having the slotted-end 18 and thread 19, extending through the perforations in the bases, the

check-nut 20 and the sliding-block 21 pivoted between the cam-arms of the frame 22 which is provided with a handle, of the shelf 5, the frame 6 secured thereto, and the shank 7 adapted to be clamped in the block 24, as described. 15

In witness whereof I have hereunto set my hand.

ALBERT J. BENNETT.

Witnesses:

HENRY J. MILLER,
M. F. BLIGH.