

No. 742,210.

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W. A. MORELAND, DEC'D.
M. C. MORELAND, EXECUTRIX.
ATTACHMENT FOR GRATES.
APPLICATION FILED MAR. 3, 1903.

NO MODEL.

Fig. 1.

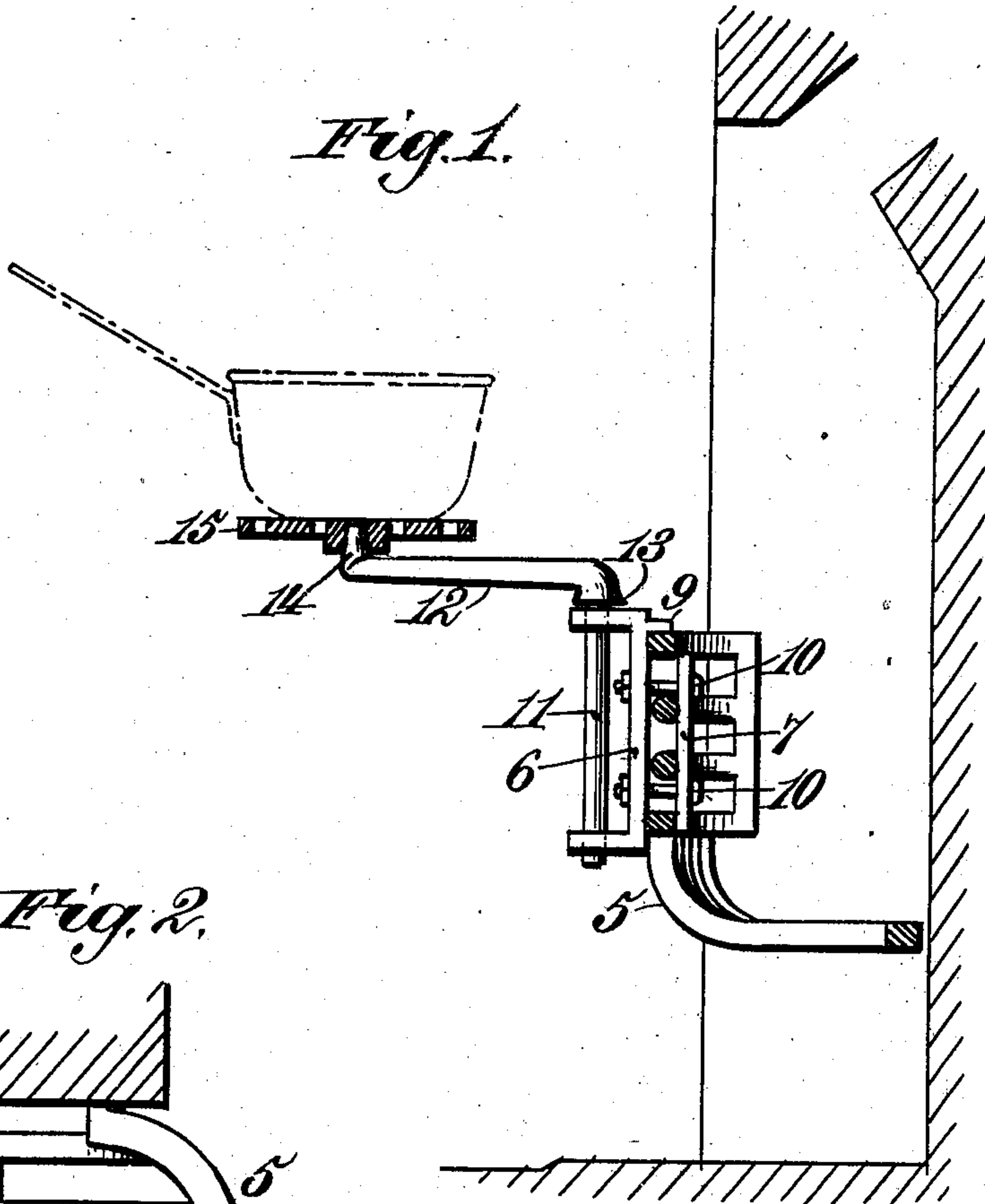


Fig. 2.

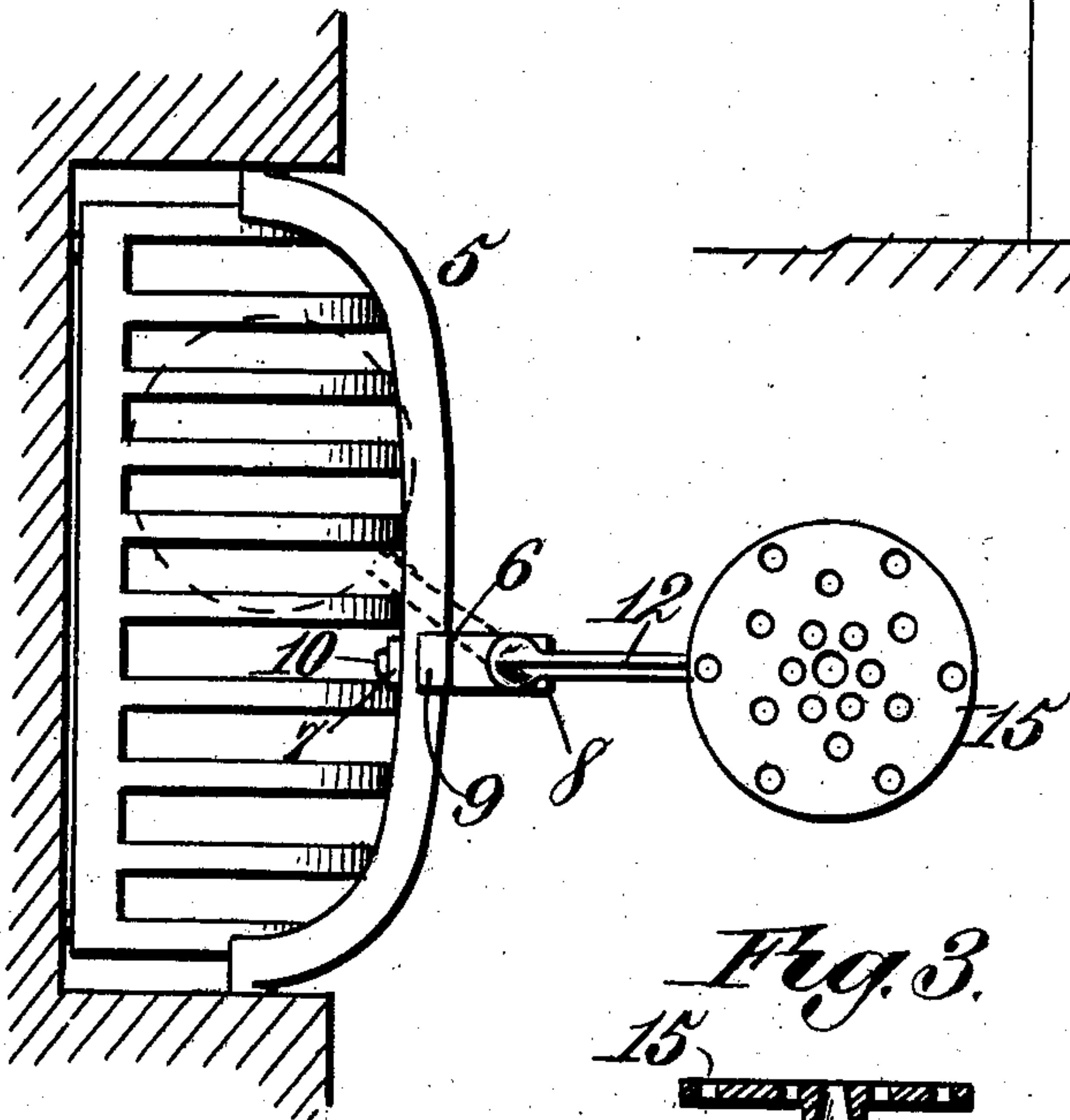


Fig. 4.

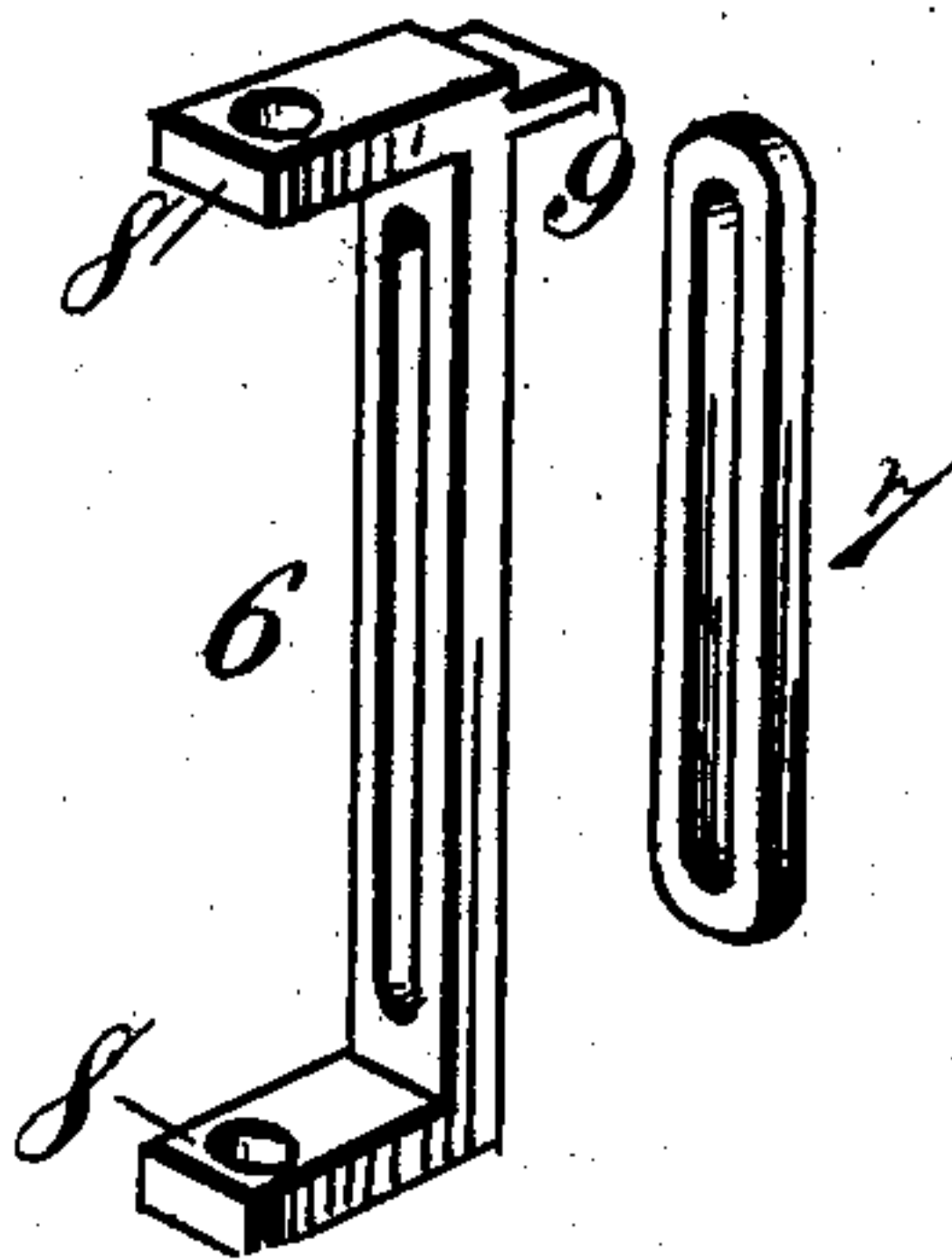


Fig. 3.



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UNITED STATES PATENT OFFICE.

MARY C. MORELAND, OF LUMPKIN, GEORGIA, EXECUTRIX OF WILLIAM
AUGUSTUS MORELAND, DECEASED.

ATTACHMENT FOR GRATES.

SPECIFICATION forming part of Letters Patent No. 742,210, dated October 27, 1903.

Application filed March 3, 1903. Serial No. 145,969. (No model.)

To all whom it may concern:

Be it known that WILLIAM AUGUSTUS MORELAND, deceased, late a citizen of the United States, and a resident of Lumpkin, in the county of Stewart and State of Georgia, did during his lifetime invent certain new and useful Improvements in Attachments for Grates, of which the following is a full, clear, and exact specification.

This invention relates to an attachment for grates; and the object of the invention is to provide a simple and effective article of this character embodying a shelf for sustaining a cooking utensil so mounted that it can be readily moved over the fire in the grate, near the fire, or entirely away from such fire.

The improved attachment involves in its construction a clamp which is adapted to be connected with the front of an open grate, one of the members of the clamp being provided with superposed projections having alined perforations to receive a vertical spindle and an offset or shoulder to be sustained upon the upper side of the grate-front, said spindle being rotative in said perforation, shouldered near its top to rest upon the upper projection, and provided at its top with a crank for pivotally supporting a shelf which consists, preferably, of a perforated disk, the perforations or openings permitting the heat from the fire to reach the utensil upon the shelf or disk when the same is over such fire, whereby the contents of the utensil may be cooked, or the said shelf by virtue of such construction may be swung backward partially out of the combustion-space of the grate when it is desired simply to heat the contents of the utensil, the shelf being normally wholly out of said combustion-space.

The improved attachment is shown in the accompanying drawings, forming a part of this specification, and in which—

Figure 1 is a sectional side elevation of a grate, showing the attachment in connection therewith. Fig. 2 is a sectional top plan view of the same. Fig. 3 is a detail view of the shelf. Fig. 4 is a like view of the clamp for fastening the attachment to the grate-front.

Like characters of reference refer to like parts in the several figures.

Referring to the drawings, the numeral 5

designates the front of an open grate. A clamp, consisting of the outer and inner members 6 and 7, respectively, is connected with the grate-front, the outer member having projections 8 at its ends to receive a spindle, hereinafter more particularly described. The superposed projections 8 are upon one side of the outer clamp member 6. Upon the inside of said clamping member is an offset or shoulder 9, adapted to rest upon the top of the grate-front. The clamping members 6 and 7 are held assembled by bolts 10, passing through longitudinal slots in the same, while the shoulder or offset 9, resting upon the top of the grate-front, holds the clamp steady. By virtue of the longitudinal slot-and-bolt connection between the clamping members they may be readily and quickly united, no matter what the degree of separation of the grate-front bars may be. The projections 8 are in parallelism with each other and have alined perforations to rotatively receive the vertically-disposed spindle 11, terminating at its top in the right-angular arm or crank 12. To uphold the spindle, the same, just below the inner end of the angular arm or extension 12, is provided with an annular shoulder 13, adapted to rest upon the upper projection 8. The under side of the projection is flat, whereby the free turning of the spindle is permitted.

The crank or right-angular extension 12 terminates at what might be considered its outer end in the stud or boss 14, adapted to fit in a suitable socket or sleeve arranged centrally or substantially centrally of the shelf 15, whereby the shelf is rotatively connected with the arm 12, the stud or boss generally tapering inwardly toward its top.

The shelf 15, which may be of any suitable character, is represented as consisting of a disk having concentric rows of perforations or holes for the passage of currents of hot air, whereby the contents of the vessel or utensil upon the shelf can be cooked or heated, the amount of heat applied to the utensil varying, of course, according to the position of the shelf relative to the combustion-space of the grate.

The parts of course may be constructed of any material suitable for the purpose. For example, the spindle 11, with its integral arm

12, may consist of a malleable casting, while the shelf 15 and the clamping members 6 and 7 may be ordinary iron castings.

To use the attachment, the clamping members are first connected with the grate-front, after which the spindle 11 is mounted and the shelf 15 put in place. Normally the shelf is outside the combustion-space of the grate. To cook the contents of a vessel, the latter is placed upon the shelf 15 and the shelf swung into the combustion-space of the grate, and when such contents have been cooked the shelf may be swung out of such combustion-space and returned to its initial position or to an intermediate position in case it is desired to keep the said contents warm after cooking the same.

The several parts may be inexpensively made and readily put together and separated. Having thus described the invention, what is claimed as new is—

1. In an attachment for open grates, a clamp adapted to be connected with the front of the grate, one of the members of the clamp being provided with superposed projections having alined perforations and an offset to rest upon said grate-front, means for holding the members of the clamp in rigid relation with each other, a spindle rotative in the perforations in said projections having a shoulder near its upper end resting upon the

upper projection and a crank-arm above the shoulder terminating at its outer end in a pivot, and a perforated shelf having a socket to receive the pivot, substantially as described. 35

2. In an attachment for open grates, a clamp adapted to be connected with the front of the grate, one of the members of the clamp being provided with superposed projections having alined perforations and an offset to rest upon said grate-front, both of said members of the clamp having longitudinal slots, bolts passing through said slots, a spindle rotative in the perforations in said projections having a shoulder near its upper end resting upon the upper projection and a crank-arm above the shoulder terminating at its outer end in a pivot, and a perforated shelf having a socket to receive the pivot, substantially as specified. 40 45 50

In testimony whereof I have hereunto set my hand, at Lumpkin, county of Stewart and State of Georgia, this 20th day of February, 1903.

MARY C. MORELAND,
Executrix of the estate of William Augustus Moreland, deceased.

Witnesses:

W. T. MORELAND,
J. B. LATIMER.