

No. 759,203.

PATENTED MAY 3, 1904.

E. M. THOMPSON.
AUTOMATIC SPRINKLER FOR ASH PANS.
APPLICATION FILED NOV. 7, 1903.

NO MODEL.

Fig. 1.

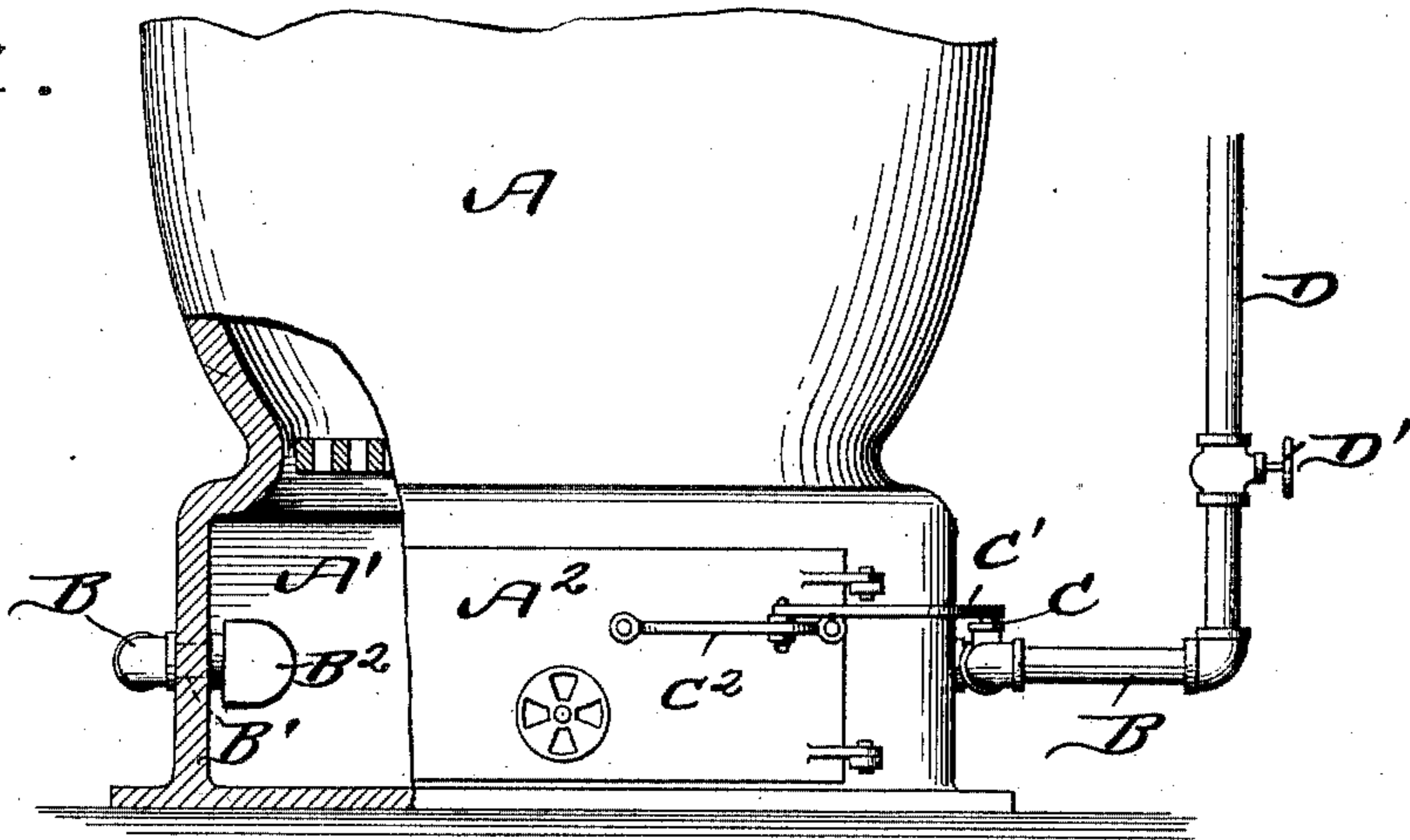


Fig. 2.

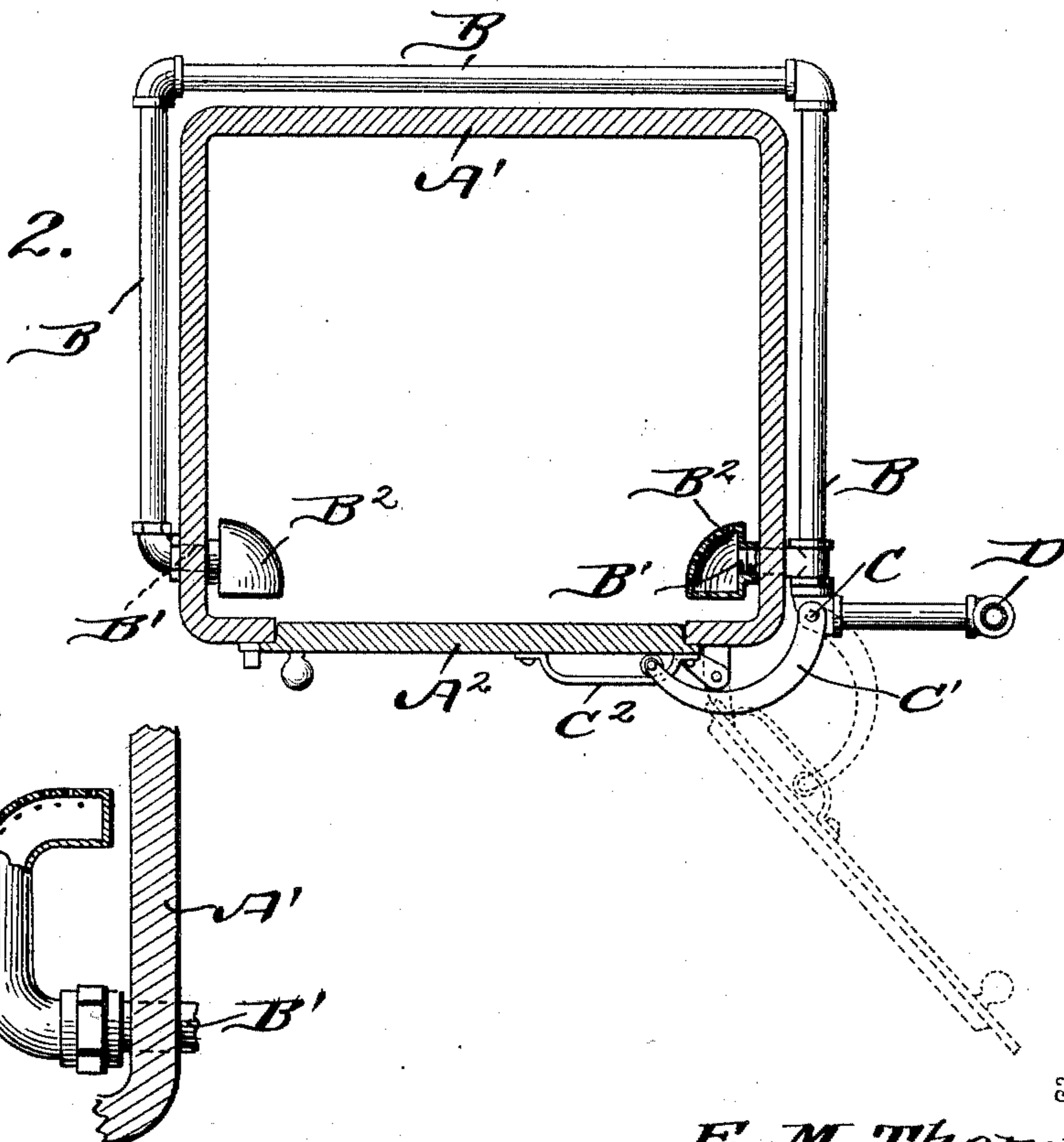
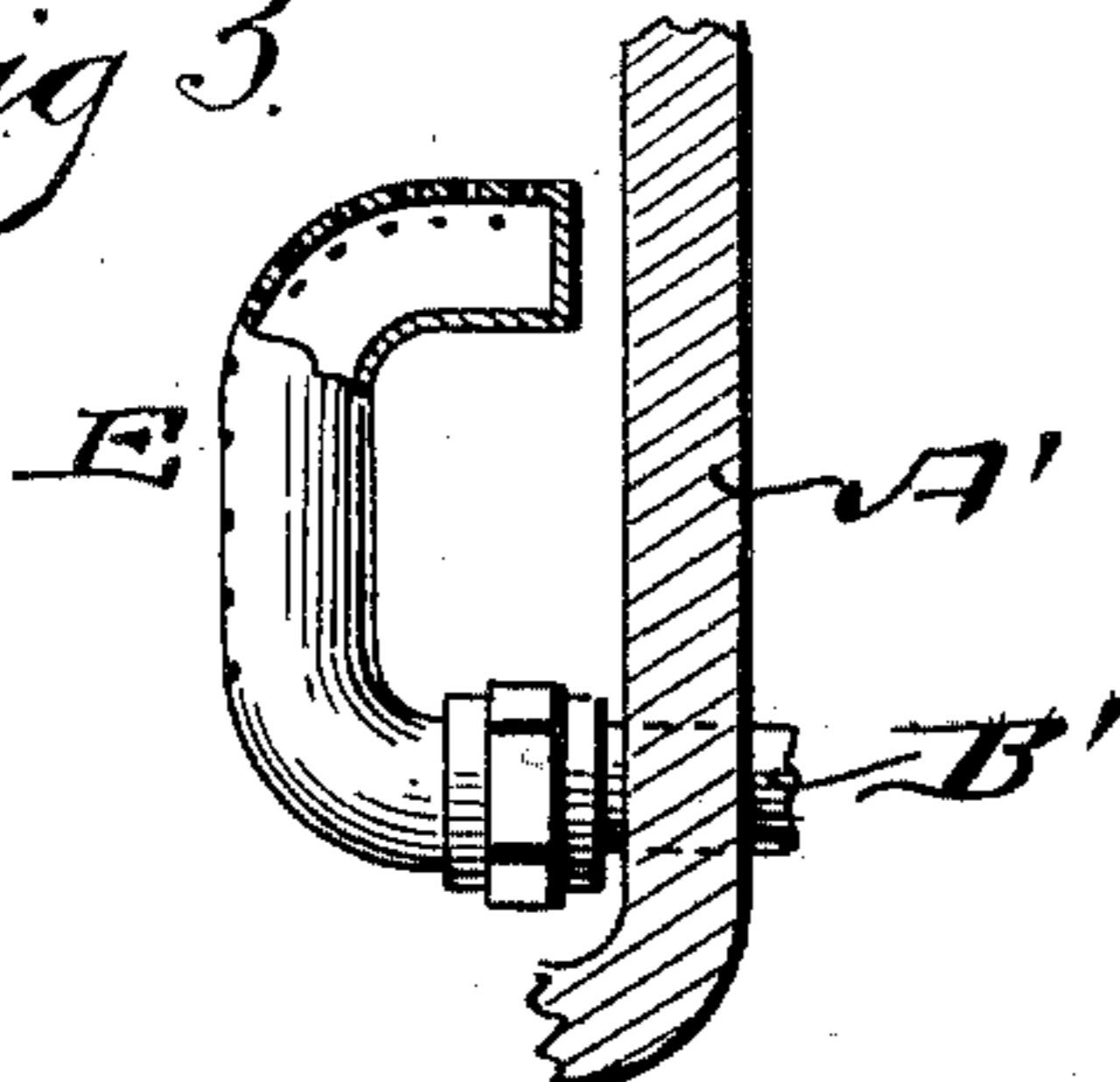


Fig. 3.



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UNITED STATES PATENT OFFICE.

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AUTOMATIC SPRINKLER FOR ASH-PANS.

SPECIFICATION forming part of Letters Patent No. 759,203, dated May 3, 1904.

Application filed November 7, 1903. Serial No. 180,261. (No model.)

To all whom it may concern:

Be it known that I, EDWARD M. THOMPSON, a citizen of the United States, residing at Curwensville, in the county of Clearfield and State of Pennsylvania, have invented a new and useful Improvement in Automatic Sprinklers for Ash-Pans, of which the following is a specification.

My invention relates especially to ash-box sprinklers, and while not limited to is designed for use in connection with the ash-boxes of ordinary house-furnaces, either steam, hot-air, or hot-water, and can also be readily attached to the ash-box of a kitchen stove or range.

The object of the invention is to sprinkle the ashes and cinders in the ash-box before they are removed therefrom. This will prevent them from blowing over the basement, kitchen, or cellar in which the furnace or range is located and will also lessen, if not entirely remove, the danger of fire caused by placing hot ashes and coals in a wooden receptacle, such as a barrel.

My invention consists in arranging a supply-pipe around a portion of the ash-box, of pipes carrying sprinklers extending into the ash-box, and of a valve arranged in the supply-pipe and adapted to be opened by act of opening the door of the ash-box.

My invention also consists of the novel features of construction hereinafter described, and pointed out in the claims.

Figure 1 is a side elevation, partly in section, showing my improvement in place. Fig. 2 is a plan view of my device, the ash-box being in section. Fig. 3 is a detail view of a slight modification.

In the drawings, A represents a stove or furnace, and A' the ash-box, having the usual hinged door A². A water-supply pipe B passes partly around the exterior of the ash-box and has suitable branches B' extending into the forward corners of the ash-box. The branches carry at their inner ends perforated half-roses arranged adjacent the corner-walls of the ash-box and are preferably located on opposite sides of the door.

Adjacent the hinged side of the door the pipe B has a valve of any suitable kind arranged in it, the valve-stem C projecting without the pipe. A curved bar C' has one end rigidly secured to the outer end of the valve-

stem and its other end pivotally connected to the door of the ash-pit, so that the act of opening the door A² will open the valve in the pipe B. When the valve D is closed, the door A² can be opened without causing a flow of water into the pipe-roses; but when the valve D' is opened the act of spraying will be automatic, as the opening of the door turns the stem C, opening the valve in the pipe B, and the water will issue from the roses toward the center of the box and extinguish any live coals that may have fallen through the grate-bars upon the ashes. The roses are removably secured in place and are within easy reach from the door, and should the perforations become choked by ashes they can be readily removed and cleaned.

Fig. 3 shows a modified form of perforated pipe E, which is, in effect, an elongated rose.

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

1. The combination with an ash-box, a valve-controlled water-supply pipe extending partly around the exterior of said ash-box, branches leading into said ash-box, and roses carried by said branches and arranged in the corners of the box adjacent the door of the box.

2. The combination with an ash-box having a door, a water-supply pipe arranged around the ash-box, branch pipes extending into the ash-box, half-roses adjacent the door and carried by the inner ends of the branch pipes, a valve having a projecting stem arranged in the supply-pipe, and means carried by the door adapted to engage the stem and open the valve when the door is opened.

3. The combination with an ash-box having a hinged door, a water-supply pipe arranged around the ash-box, branch pipes leading into the forward corners of the ash-box, a half-rose removably connected to the inner end of each branch pipe, a valve in the supply-pipe having a projecting stem, and a curved bar rigidly connected at one end to the stem and at the opposite end pivotally connected to the door, as and for the purpose set forth.

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Witnesses:

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