

No. 803,375.

PATENTED OCT. 31, 1905.

C. E. WARD.

GRATE.

APPLICATION FILED APR. 3, 1905.

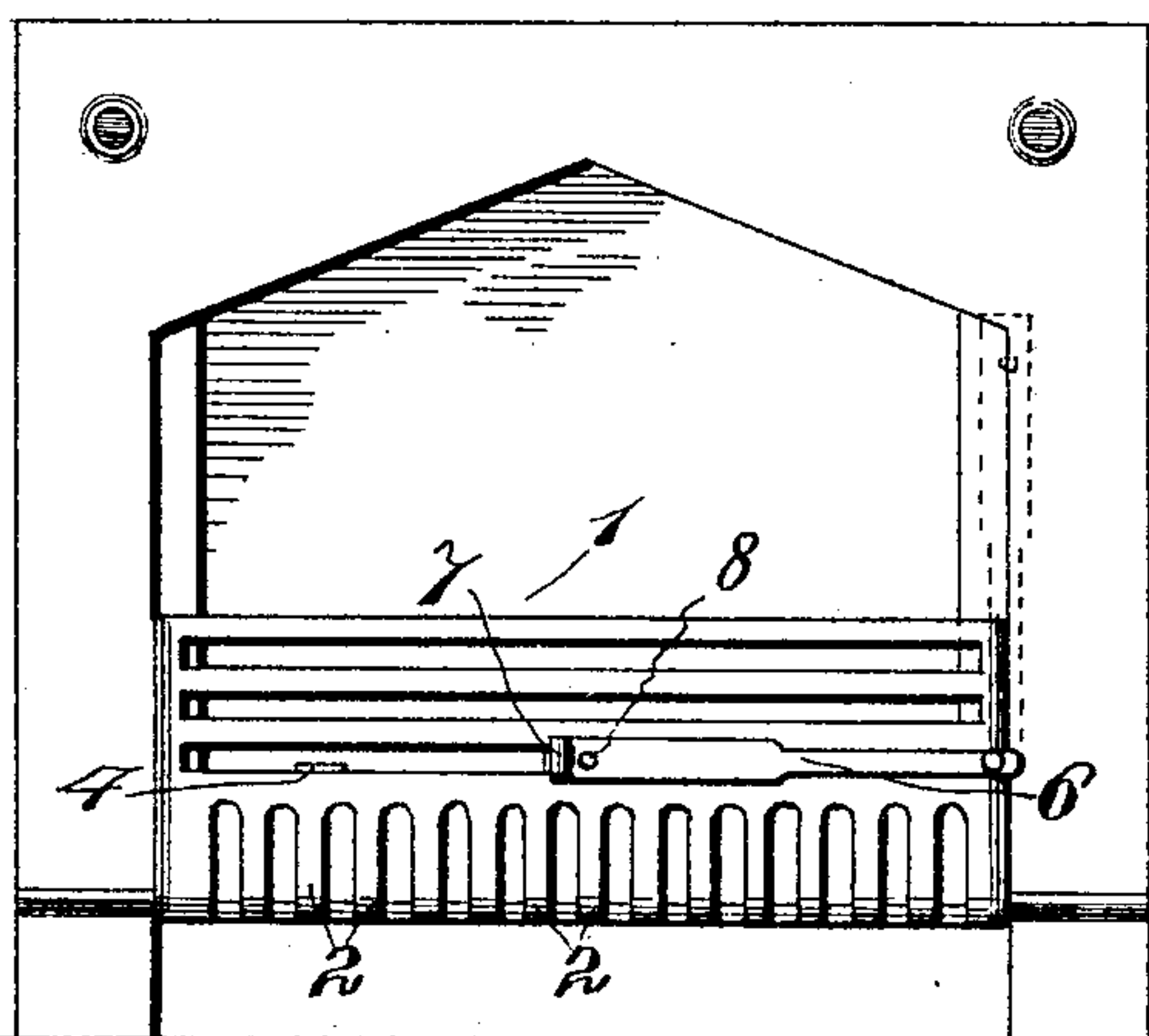


Fig. 1.

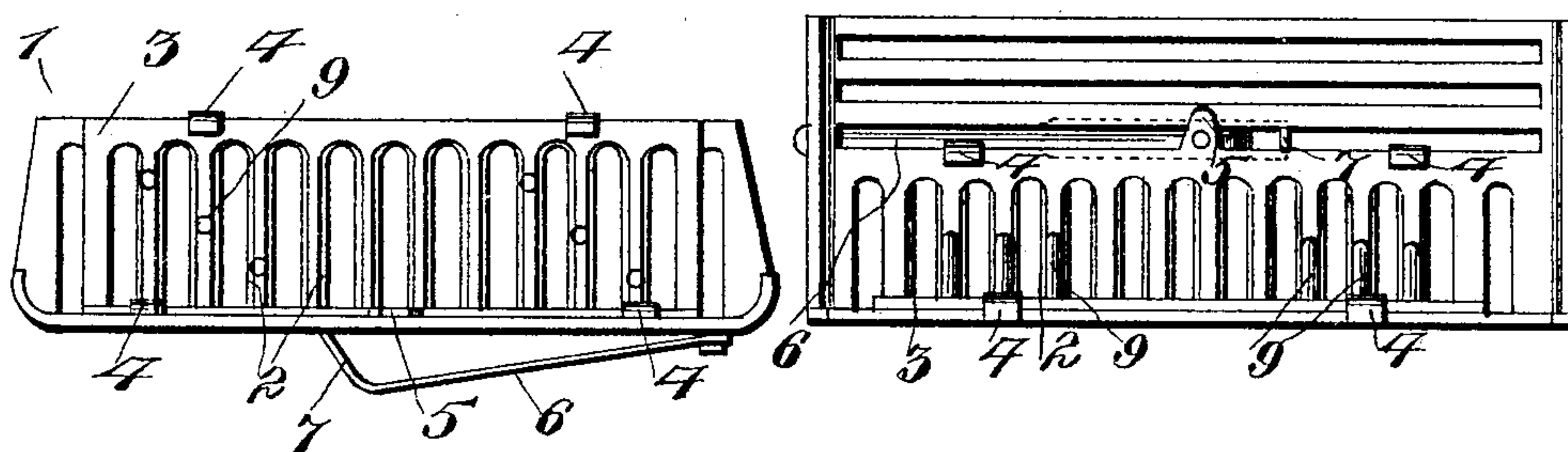


Fig. 2.

Fig. 3.

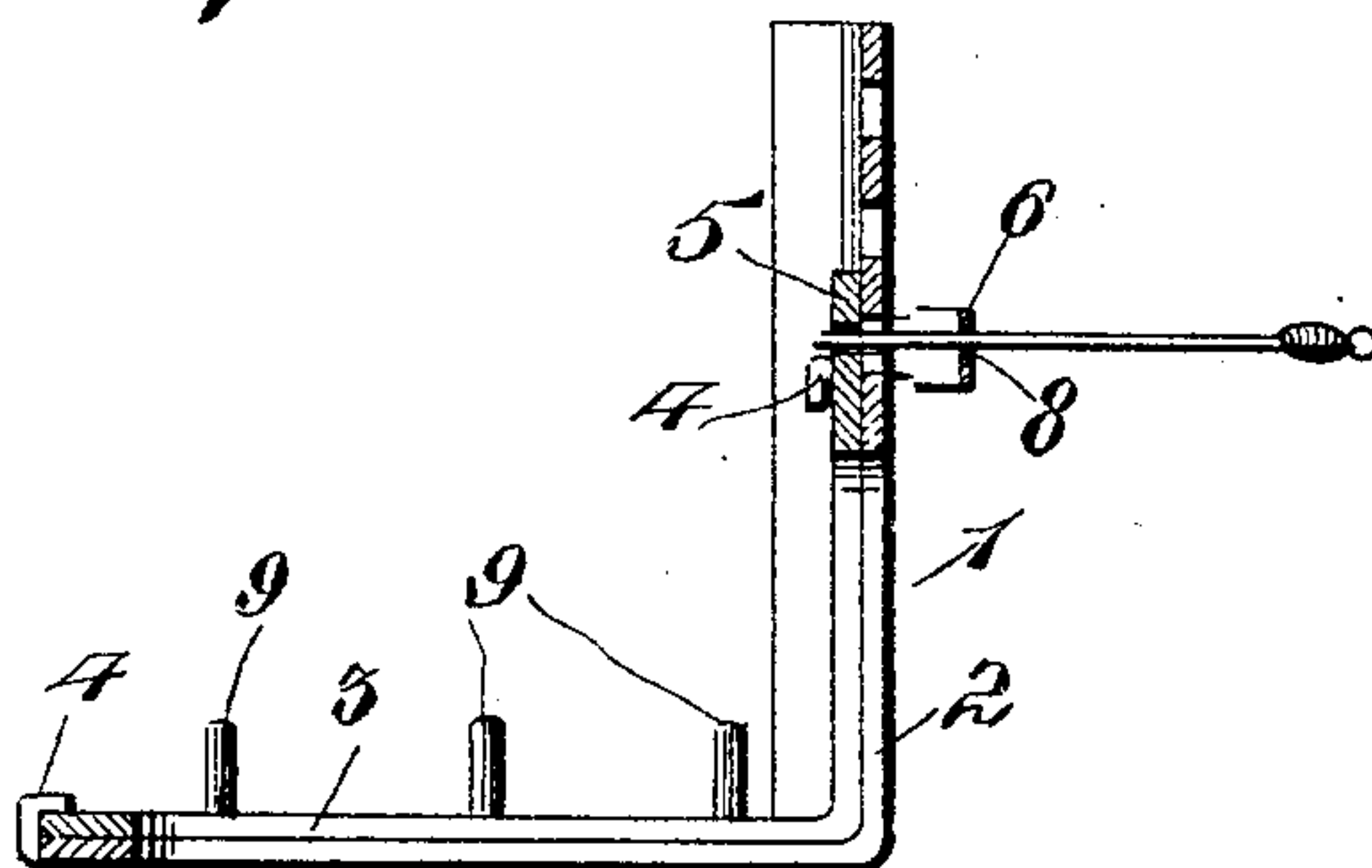


Fig. 4.

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UNITED STATES PATENT OFFICE.

CHARLES E. WARD, OF CLARKSBURG, WEST VIRGINIA.

GRATE.

No. 803,375.

Specification of Letters Patent.

Patented Oct. 31, 1905.

Application filed April 3, 1905. Serial No. 253,493.

To all whom it may concern:

Be it known that I, CHARLES E. WARD, a citizen of the United States, residing at Clarksburg, in the county of Harrison and State of West Virginia, have invented certain new and useful Improvements in Grates; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in fire-grates.

The object of the invention is to provide a grate for open fireplaces or for stoves having means whereby the ashes may be shaken therefrom.

A further object is to provide a grate forming a certain arrangement which will be simple, strong and durable in construction, efficient in operation, and which may be readily applied to the grates of open fireplaces or stoves, means being provided whereby the shaking mechanism may be actuated.

With these and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a front view of an open grate, showing the application of the invention thereto. Fig. 2 is a top plan view thereof. Fig. 3 is an inner side view of the same; and Fig. 4 is a vertical sectional view through the grate, showing the means for operating the same.

Referring more particularly to the drawings, 1 denotes a grate which may be of any suitable construction, but which is here shown as an open grate, the bottom and lower front portion of which is formed of parallel grate-bars 2, as shown. Slidably mounted on the grate-bars 2 is a movable bottom 3, said bottom being formed of grate-bars which are constructed and spaced apart similarly to the bars of the grate 1. The bottom 3 is held in sliding engagement on the bars 2 by means of engaging guide-lugs 4, formed on the bottom and front side of the grate 1, as shown. The bottom 3 is formed on its upper edge midway between its ends with an upwardly-projecting apertured lug 5.

Pivotally connected to the front side of the grate 1, adjacent to one end of the same, is an angularly-formed poker or lever supporting arm or bracket 6, the free end of which is

bent at an obtuse angle to the main portion thereof, as shown at 7. Said angularly-bent portion is provided with a reduced end which is adapted to be inserted between the lower horizontally-disposed bars forming the upper portion of the front of the grate, whereby when said arm or bracket is swung downwardly to a horizontal position the free end may be supported by the engagement of the reduced end of the angularly-bent portion thereof between the horizontal bars of the grate. In the bracket 6, adjacent to the angularly-bent end of the same, is formed an aperture 8, through which is adapted to be inserted a lever or poker, the inner end of which is engaged with the aperture in the lug 5, the bracket 6 thus forming a fulcrum upon which the lever or poker is oscillated, thereby shifting the bottom 3 across the grate-bars 2, which will cause the ashes to be shaken or riddled between the bars 2 of the grate.

In order to facilitate the removal of the ashes from the fire, the bottom 3 is provided with a series of upwardly-projecting rake-teeth 9. When not in use, the arm or bracket 6 may be swung upwardly in an out of the way position at one side of the grate, as shown in dotted lines in Fig. 1 of the drawings.

While I have shown and described the shaking attachment as applied to an open grate, it is obvious that the same may be applied to the grate of a stove or range and may be operated in a similar manner, as hereinbefore described, and by the use of the same the ashes may be quickly and easily removed from the fire in the grate.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

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

1. A grate of the character described, in combination with a movable slotted bottom adapted to be reciprocated back and forth across the bars of said grate, a fulcrum-bar pivotally mounted on said grate and adapted to be swung into and out of an operative position, said fulcrum-bar having an opening through which a poker may be inserted to engage said movable section and reciprocate the same, substantially as described.

2. A grate of the character described, in

combination with a movable slotted bottom adapted to be reciprocated back and forth across the bars of said grate, said bottom being provided with upwardly-projecting rake-teeth, a fulcrum-bar pivotally mounted on
5 said grate and adapted to be swung into and out of an operative position, said fulcrum-bar having an opening through which a poker may be inserted to engage said movable sec-

tion and reciprocate the same, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

CHAS. E. WARD.

Witnesses:

A. L. CARTER,
ORIE MYERS.