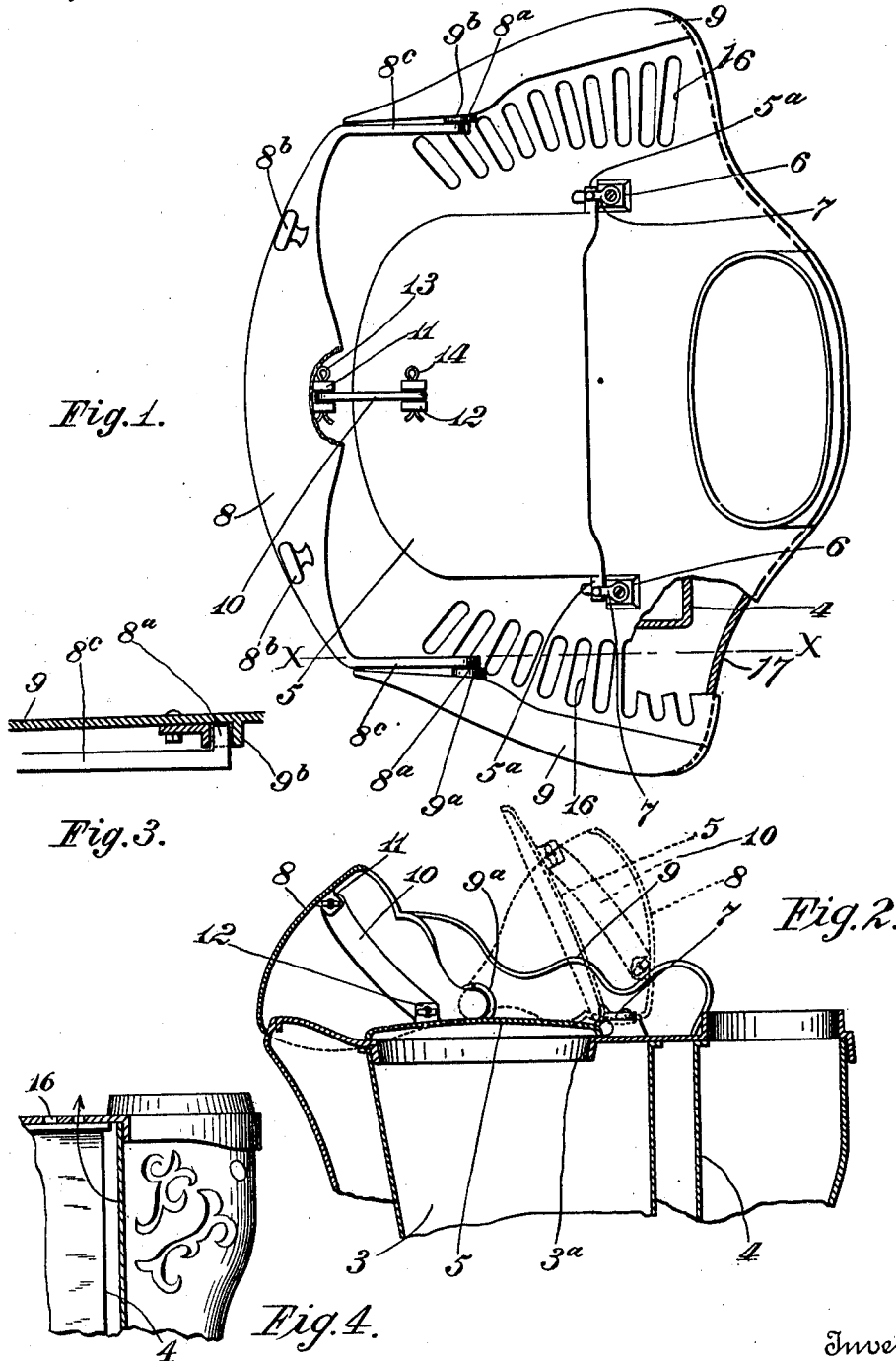


J. B. HOWARD.
MAGAZINE STOVE.
APPLICATION FILED AUG. 12, 1908.

980,264.

Patented Jan. 3, 1911.



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UNITED STATES PATENT OFFICE.

JAMES B. HOWARD, OF INDIANAPOLIS, INDIANA.

MAGAZINE-STOVE.

980,264.

Specification of Letters Patent.

Patented Jan. 3, 1911.

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To all whom it may concern:

Be it known that I, JAMES B. HOWARD, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented a certain new and useful Improvement in Magazine-Stoves, of which the following is a specification.

The object of this invention is to provide an improved cover for the upper or feed end of the magazine of a magazine heating stove and means for operating such cover.

The invention is embodied in the construction hereinafter described and claimed, the invention not being limited in practice to the forms of the parts particularly illustrated in the accompanying drawings.

In said drawings—Figure 1 shows a top plan view of the upper end of a magazine stove, having my improved cover and means for operating same in connection therewith, parts being broken out. Fig. 2 is a vertical sectional view. Fig. 3 is a sectional detail showing one of the bearings for the rolling or movable ornamental cover-operating segment. Fig. 4 is a fragmentary vertical section on the line $x-x$ Fig. 1.

In the views 3 designates the magazine into which the coal is supplied, said magazine to discharge in the usual or any approved way into the fire pot (not shown) at its lower end. The magazine fits at its upper end against the top wall of the stove body, and said top wall has an opening 3^a affording access of the coal supply to the magazine.

The character 4 designates the drum or body of the stove in which the magazine is secured.

5 designates the cover for the feed or upper end of the magazine. This cover is hinged to open upward by pintles 5^a, 5^a, resting on bearings 6, 6, and said pintles are held from dislodgment from the bearings by pivoted latches 7, 7, that can be turned to lie over the pintles 5^a, 5^a.

The character 8 designates a front movable segment or section of the ornamental parts at the top of the stove. This segment or crown section 8 is in the form of a bow or yoke having inwardly extending arms 8^c which at their extremities are provided with outwardly projecting trunnions or stud journals 8^a, 8^a. These trunnions or stud journals are seated in bearings 9^a and 9^b, in fixed but

ordinarily detachable ornamental crown sections 9, 9, at the sides of the top of the stove. One part of the bearing at 9^b can be removable, as shown, so that the crown section 8 can be inserted or removed without removing the ornamental side sections or springing the arms 8^c. The movable crown section 8 and the magazine cover 5 can be connected so that the latter can be operated by the former, the means shown consisting of a link 10, connected at its ends to perforated ears 11 on the crown section 8 and ears 12 on the cover, cotter pins as at 13 and 14 respectively being passed through said ears and a hole in the contiguous end of the link.

The form of the crown section 8 is such and the connections of the link with that member and the cover are shown to be such, that the crown section may be turned or rolled over to raise the cover off the feed opening of the magazine and automatically retain the cover in open position by gravity, as indicated by broken lines Fig. 2. It will be observed that in this operation the central or main portion of the crown section lies first on one side then on the other of the cover. Knobs 8^b, 8^b, are shown at each end of the front side of the crown section 8 by which that member can be manipulated to move the cover to open or close the magazine.

When the cover is raised to the position shown by broken lines Fig. 2 it serves as a guide to direct the fuel into the magazine and prevent it from scattering over the top of the stove. Further, with the construction shown, the cover, is retained in this position, leaving the hands free to manipulate the coal bucket. It will also be observed that while the section 8 conceals the top of the stove from the view of one standing in front of it said section does not so close the top of the stove as to retard the flow of heat upward therefrom as is the case with many ordinary stoves having two top covers, but on the contrary leaves the top of the stove and the magazine cover 5 exposed to give off heat.

16 designates openings in the top wall of the stove at each side of the cover, said openings permitting the flow of heated air from the back and sides of the stove upward, and promoting the rapid diffusion of heated air into the room. The top wall of the stove rests at its rear corners on lateral walls or wings 17 extending in opposite directions

from the flue. The construction of cover and operating means permits the use of said holes 16.

My invention is applicable to many forms of magazine stove and it is not confined to the particular forms or to the particular arrangement of the parts with reference to the top of the stove.

What I claim and desire to secure by Letters Patent is:

1. In a magazine stove, the combination with the magazine, of a cover therefor hinged to swing upward, a movable crown section in the form of a bow also hinged to swing upward, said bow being free from obstruction at its inner side to permit the passage of heated air from the top of the stove upward, and means connecting the crown section and cover whereby the latter may be operated by operating the former.

2. In a magazine stove, the combination with the magazine, of a cover therefor hinged to swing upward, a movable crown section in the form of a bow also hinged to swing upward, said bow being free from obstruction at its inner side to permit the passage of heated air from the top of the stove upward, and a link connecting the said crown section and cover whereby the latter may be operated by operating the former.

3. In a magazine stove, the combination with the magazine of a cover therefor hinged to swing upward, a movable crown section in the form of a bow also hinged to swing upward, said bow being free from obstruction at its inner side to permit the passage of heated air from the top of the stove upward, means connecting the crown section and cover whereby the latter can be moved to open and close the magazine by manipulation of the former, said section and connecting means being adapted automatically to retain the cover in magazine-opening position when moved to that position.

4. In a magazine stove, the combination with the magazine, of a cover therefor hinged to swing upward, a crown section in the form of a bow also hinged to swing upward, said section being free from obstruction at its inner side to permit the passage of heated air upward, and a link connecting the said crown section and cover whereby, when the crown section is swung upward, the cover is moved to magazine opening position and into position to direct fuel into the magazine.

5. In a magazine stove, in combination, the top wall thereof extending laterally beyond the body of the stove, and the magazine having its feed opening through said wall, a cover for said magazine, hinged to swing upward from said magazine, a movable crown section of bow form free of obstruction at its inner side to permit the passage of heat upward beyond it, means connecting the said crown section and cover whereby the latter can be raised by raising the former, said top wall being provided beyond the body of the stove with openings to permit the flow of heated air from the outer sides of the stove body below.

6. In a stove, the combination with a top cover hinged to swing upward, a movable crown section in the form of a bow free of obstruction at its inner side to permit the passage of heated air upward beyond the same, said crown section being hinged on a horizontal axis to swing with reference to said cover, means operatively connecting the crown section with the cover to open and close the same, said crown section being adapted to swing over the cover from one side to the other thereof.

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