No. 806,189. PATENTED DEC. 5, 1905.

W. V. ROBINSON.

STOVE.

APPLICATION FILED DEC. 12, 1904.

Fig. 2.

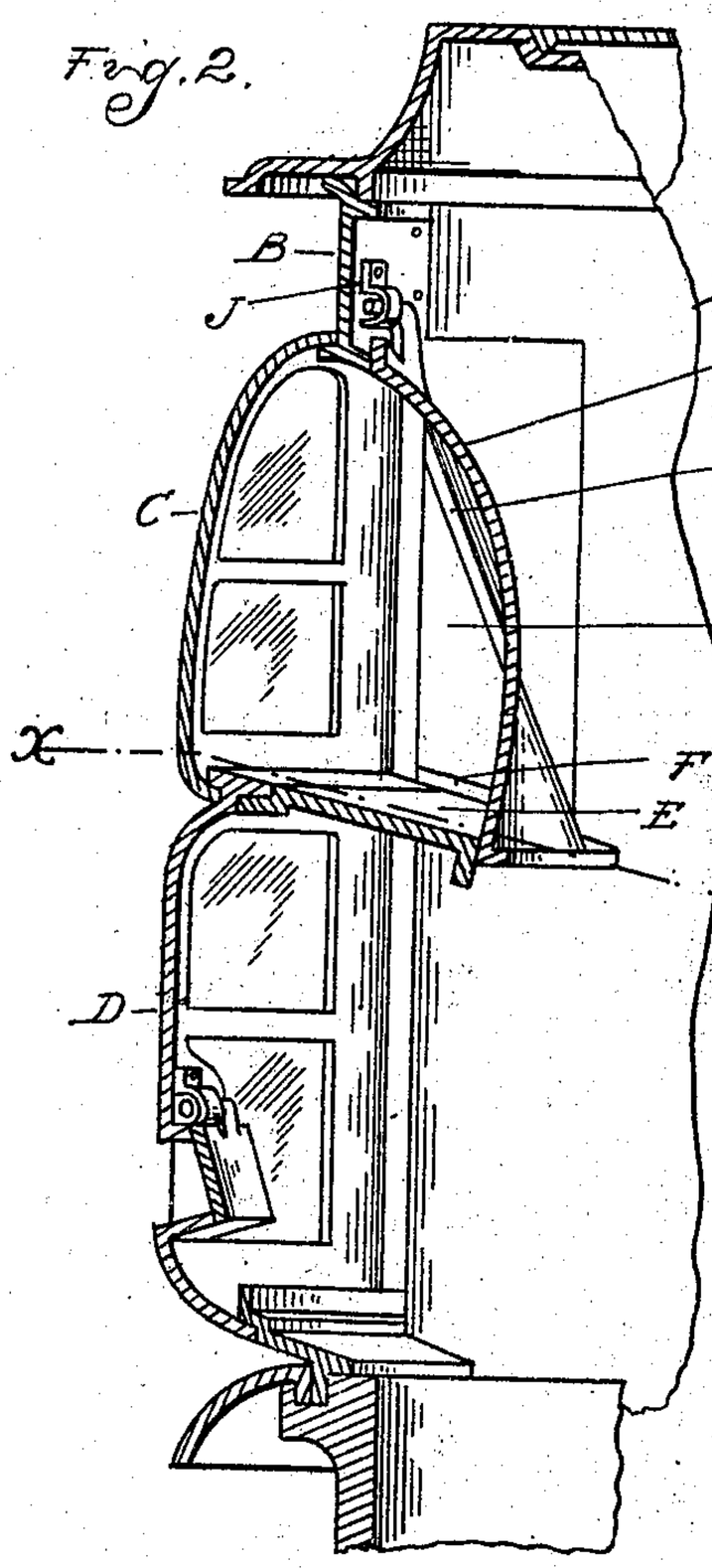


Fig. 4.

Fig. 5.

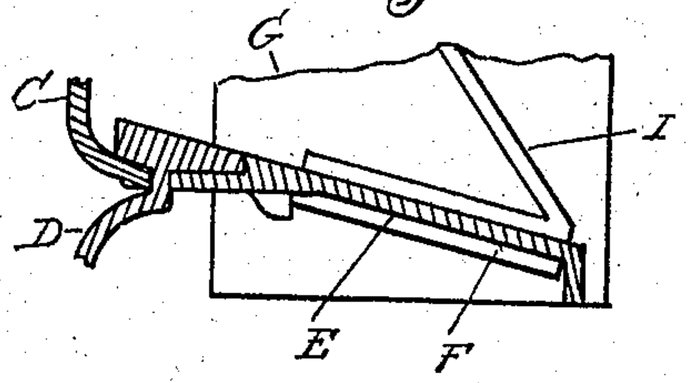


Fig. 1.

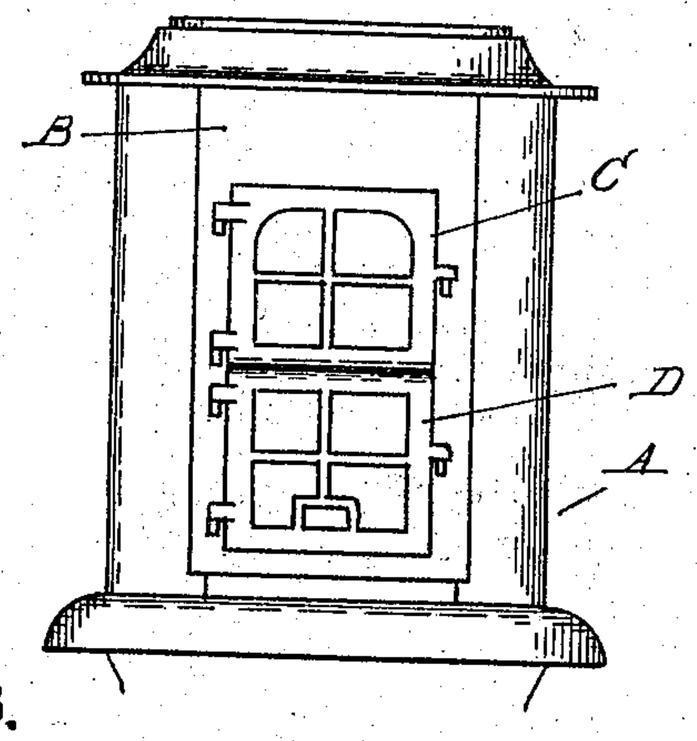
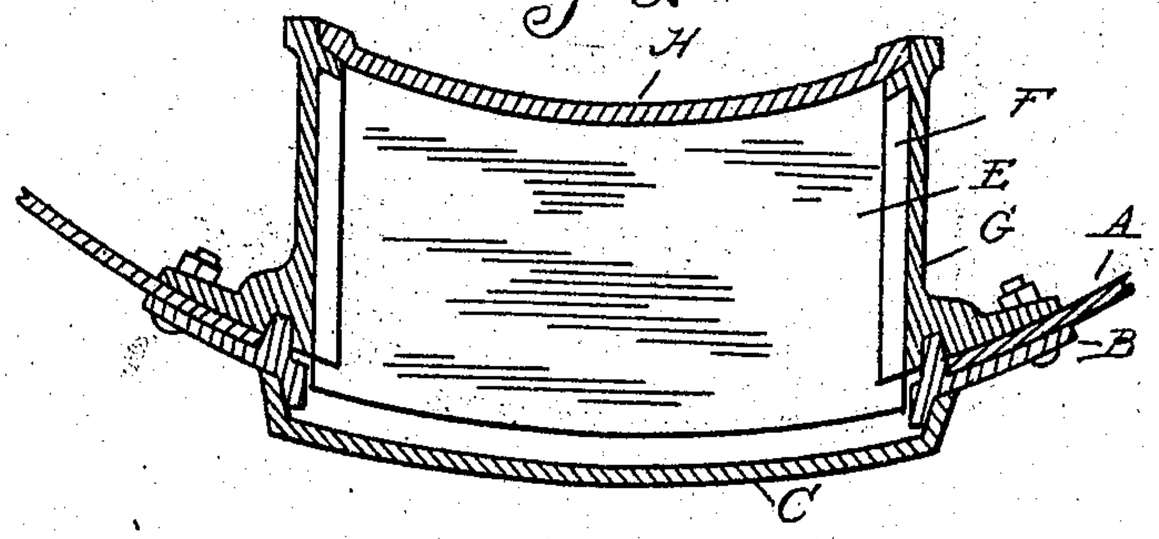


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM V. ROBINSON, OF DETROIT, MICHIGAN, ASSIGNOR TO ART STOVE COMPANY, OF DETROIT, MICHIGAN, A CORPORATION OF MICHIGAN.

STOVE.

No. 806,189. Specification of Letters Patent. Patented Dec. 5, 1905.

Application filed December 12, 1904. Serial No. 236,533.

To all whom it may concern:

Be it known that I, WILLIAM V. ROBINSON, a subject of the King of Great Britain, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Stoves, of which the following is a specification, reference being had therein to the accompanying drawings.

It is the object of the invention to obtain a construction of stove adapted for use with a variety of fuels, such as different kinds of coal and wood.

The invention consists in the means whereby fuel may be fed into the stove without the exit of smoke; further, in the construction permitting of easy adjustment for use in burning wood of comparatively long lengths, and, further, in certain features of construction, as hereinafter set forth.

In the drawings, Figure 1 is a front elevation of the stove. Fig. 2 is a vertical longitudinal section through a portion of the front wall and fuel-feeding devices. Fig. 3 is a horizontal section on line *x x* of Fig. 2. Fig. 4 is a perspective view of one of the cheek-plates for the fuel-feeding door, and Fig. 5 is a vertical section through the fuel-chute adjacent to the cheek-plate.

The body A of the stove is preferably of cylindrical form and may be formed of any suitable material, such as sheet metal.

B is a door-frame which forms the front portion of the casing and preferably extends from bottom to top thereof. This frame is provided with an opening extending for the greater part of its length and which is closed by a pair of hinged doors C and D. As shown, these doors are of an outwardly-bulging form, being seated on three sides against the door-frame, and their adjacent edges being seated the upper one upon the lower and the latter against a shelf or division-plate E.

The purpose of providing the two superposed doors C and D is primarily to permit of introducing long lengths of wood into the stove when such fuel is used. To this end the division-shelf E is removable and is preferably detachably secured in position by engaging with slotted ways F in cheek-plates G, which latter are secured to the sides of the door-frame and project inward therefrom.

For use with coal, and more particularly with soft coal, the shelf E is employed and forms a chute for directing the fuel introduced through the door C into the stove. The opening of the door C would under ordinary conditions permit the escape of smoke from the stove, and to prevent this result an inner door H is provided. This door has straight side edges to fit against flanges I on the cheek-plates G and is preferably of an inwardly-bulging form for the greater part, but has its lower edge outwardly bulging, as shown in Figs. 2 and 3, being seated at its lower edge against the inner edge of the shelf or coal-chute E and extending between the cheek-plates G. The latter are preferably provided with inclined ribs or bearings I, against which the door H is normally seated. The door is hinged to the casing B at its upper end, as at J.

With the construction just described when coal is to be introduced the door C is open, but the combustion-chamber is still closed by the inner door H. The fuel is then deposited upon the shelf or chute E, which permits it to slide downward and in so doing to push the door H inward to provide the necessary opening. As soon as the fuel is thus introduced the door H automatically closes by gravity, thereby preventing the escape of smoke.

What I claim as my invention is—

1. In a stove, the combination with a casing, having a fuel-feed opening in the side wall thereof and a pair of outwardly-opening doors for closing the same, of a fuel-chute projecting inward from between said doors, and an inwardly-opening door seated against said fuel-chute and adapted to automatically open by the passage of fuel.

2. In a stove, the combination with a casing having a fuel-feed aperture in the side wall thereof and means for closing said aperture, of an inclined shelf adjacent to said aperture and projecting inward therefrom to form a fuel-chute, cheek-plates projecting inward from the sides of said aperture, and an inwardly-opening door hinged to the casing and extending between said cheek-plates and seated against said shelf.

3. In a stove, the combination with a casing, provided with a fuel-feed aperture in the side wall thereof, of cheek-plates projecting inward from the sides of said aperture, a removable fuel-feeding chute engaging inclined bearings in said cheek-plates and an inwardly-opening door hinged at its upper

end to said casing and extending between said cheek-plates, the lower edge of said door being seated at the inner edge of said fuel-chute.

4. In a stove, the combination with a casing, provided with a fuel-feed aperture in the side wall thereof, of a pair of outwardly-opening doors for closing said aperture and seated one against the other, a fuel-feeding chute extending across said aperture and forming a seat for the upper edge of the lower door, said chute being removable, for the purpose described.

5. In a stove, the combination with a casing, provided with a fuel-feed opening in the side wall thereof, of a pair of outwardly-opening doors together closing said aperture, the upper door being seated upon the lower door, cheek-plates projecting inward from the side edges of said aperture, adjacent to the upper door, and a fuel-chute detachably engaging bearings in said cheek-plates and forming a seat for the upper edge of the lower door.

6. In a stove, the combination with a casing, provided with a fuel-opening in the side wall thereof, of a pair of doors for closing said opening, the upper door being seated upon the lower one, cheek-plates projecting inward from the side edges of said aperture adjacent to said upper door, a fuel-feeding chute detachably engaging inclined bearings in said cheek-plate and forming a seat for the upper edge of the lower door and an inwardly-opening door extending between said cheek-plates and hinged at its upper edge, its lower edge seating against asid fuel-chute.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM V. ROBINSON.

Witnesses:
HARRISON L. DAVIES,
GEO. A. MAIN.