

Fig. 4.—Cross Section, with Water Grate.

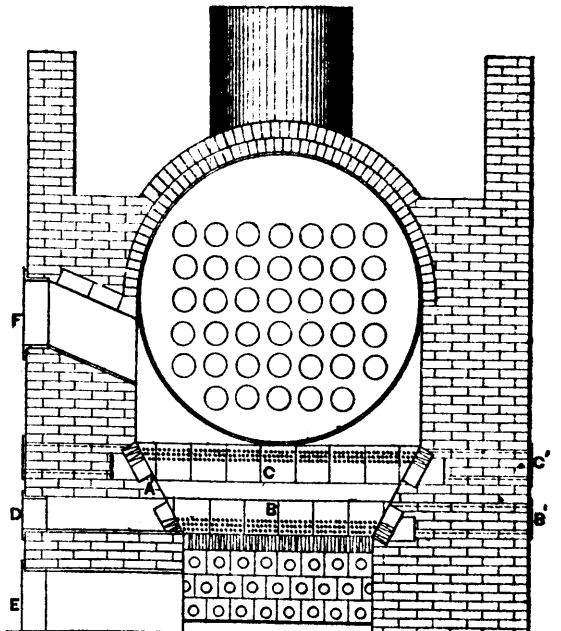


Fig. 5.—Cross Section, with Tile Grate Doors on the Side.

### HEATER FOR RAILWAY CARS OR BUILDINGS.

B. V. Seevers, of Oskaloosa, Iowa, is the inventor of an improved heater designed for use in railway cars, but which may also be employed in offices, stores or dwelling houses.

In the engravings, Fig. 1, is a vertical sectional view. Fig. 2 is an enlarged horizontal sectional view on the line  $x x$ , Fig. 1. Fig. 3 is an enlarged horizontal sectional view on the line  $y y$ , Fig. 1.

D is a downwardly projecting inverted hopper or chute, having an annular flange, E, by which it rests upon the floor through an opening, F, in which the body of the said chute extends. The upper end or rim of the chute fits within a rim

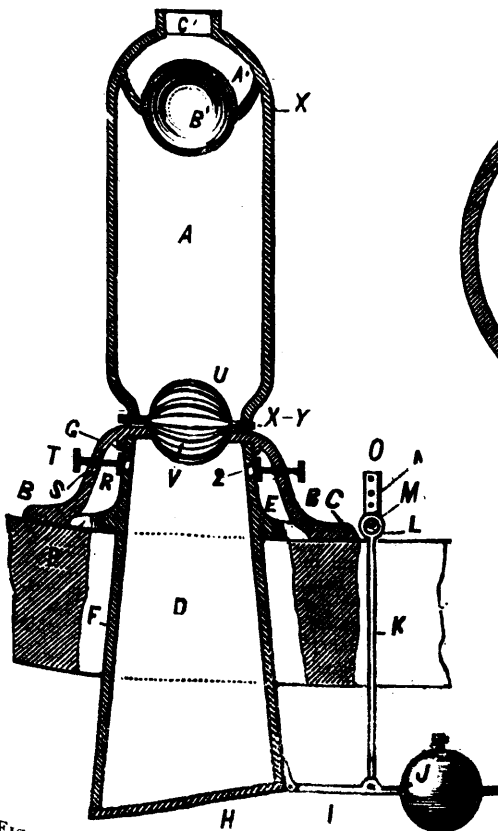


FIG. 1.—HEATER FOR CARS OR BUILDINGS.

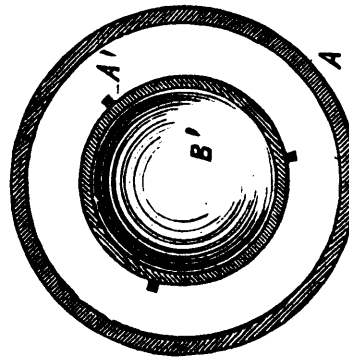


FIG. 2.

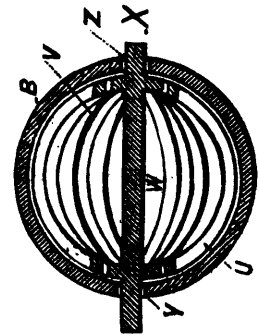


FIG. 3.

or flange, G, cast or formed upon the under side of the base, thus causing the several parts to be nicely joined together. The chute D is provided at its low end, which is inclined or beveled, as shown, with a hinged or pivoted cover H, having rigidly connected thereto an arm or lever I, projecting rearward of the hinge or pivot, and provided with a ball or weight, J, by which the cover is kept in a closed position.

The arm or lever is threaded to make the weight adjustable at any desired distance from the fulcrum.

The weight J is so adjusted upon its rod or arm I that it will overbalance the weight of the door H on the opposite side of the fulcrum, and thus, by causing the door to bear against the lower rim or opening of chute D, keep it closed; and the farther the weight J is removed from the fulcrum the greater, of course, will be the amount of ashes and cinders which the door will sustain before being tilted open by their pressure overcoming the weight of the counterpoise J.

The flange E of the chute D is provided with notches P, directly above which are located draft openings, Q, capable of being partly or entirely closed, so as to regulate the draft.