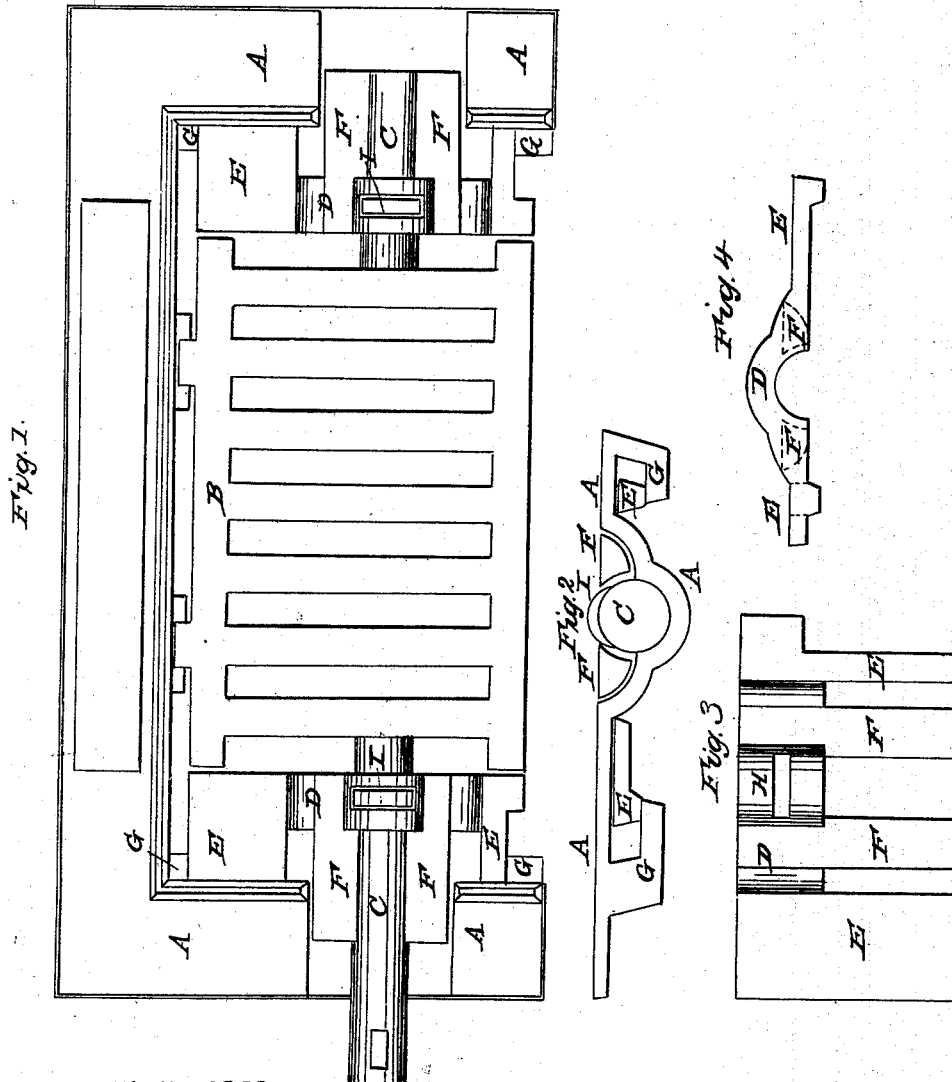


J. GLASS.
Stove Grate.

No. 49,344.

Patented Aug. 8, 1865.



WITNESSES
W. Van Every
M. J. Blanchard

INVENTOR
James Glass

UNITED STATES PATENT OFFICE.

JAMES GLASS, OF TROY, NEW YORK, ASSIGNOR TO COX, CHURCH & CO.,
OF SAME PLACE.

IMPROVEMENT IN STOVE-GRATES.

Specification forming part of Letters Patent No. **49,344**, dated August 8, 1865.

To all whom it may concern:

Be it known that I, JAMES GLASS, of the city of Troy, in the county of Rensselaer, in the State of New York, have invented a new and useful Improvement in Stove-Grates; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and the letters of reference marked thereon.

Figure 1 shows a perspective view of the grate. Fig. 2 is a sectional view taken at the red line on Fig. 1. Fig. 3 is intended to give a perspective view of the removable end slide. Fig. 4 is a sectional view of the end slide at the red line on Fig. 3, with prongs cut off and their places indicated by dots.

A is the outside frame for the grate, on which the shaft on each end of the grate rests.

The shaft C C is attached to the grate B a little forward of the center, so that balance of gravity will come on the back side in order to keep the grate from tipping, and to prevent the heaviest side from going below a level lugs are attached to the under side of the grate-frame, and corresponding lugs on the grate rest on those attached to the frame. But the particular feature of this grate which I claim as new consists, mainly, in the removable end slide-piece, D, which is made with four prongs, E E and F F, (see Fig. 3,) with a portion of it formed over and resting on the shaft C and

the prongs F F resting in corrugations on the bed-plate alongside the shaft, while the other two prongs, E E, running under the bed-plate, are sustained by the lugs G G. (See Fig. 2.)

In that portion of the removable end piece, D, which forms over and rests on the shaft is a slot, H, and upon the shaft C is a lug, I, passing up through the slot H, so that by this lug, when the shaft is moved from one end to the other, the removable end pieces are moved in the same direction also. Thus by moving the whole grate from end to end I have a shaking-grate, by which the ashes may be cleared from the fire-box above, and at the same time, by means of a lever attached to the shaft C, any cinders remaining in the fire-pot may be dumped into an ash-pan below by turning the grate over. In this operation it will be seen that the end pieces, D D, moving back and forth in conjunction with the grate B, prevent the coal from falling through at the ends of the grate, while the grate is constantly at liberty to be turned and dumped.

I claim—

The removable end pieces, D D, in combination with the grate B, shaft C, and bed-plate A, operating as and for the purposes set forth.

JAMES GLASS.

Witnesses:

W. I. BLANCHARD,
W. H. VAN EVERY.