

(No Model.)

A. W. ELDREDGE.
Stove Grate.

No. 242,518.

Patented June 7, 1881.

Fig. 1

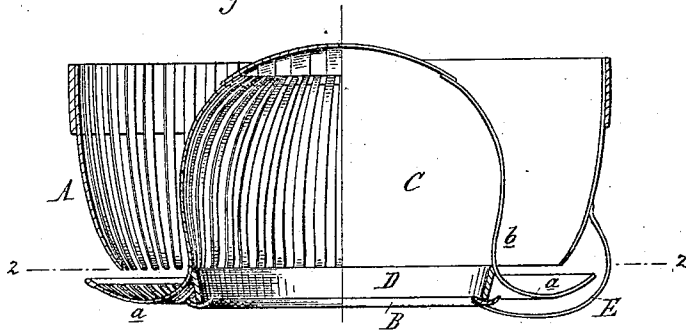


Fig. 2

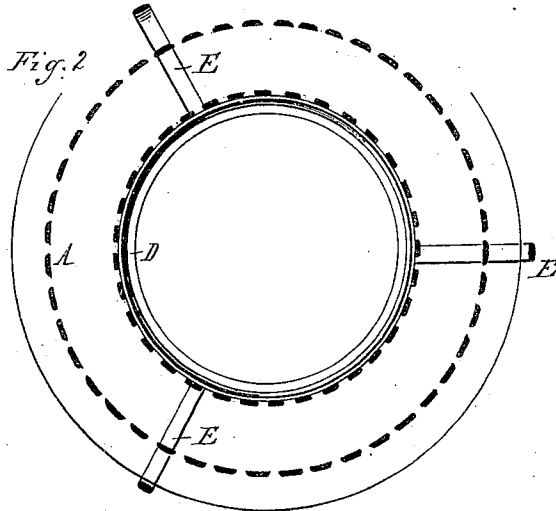
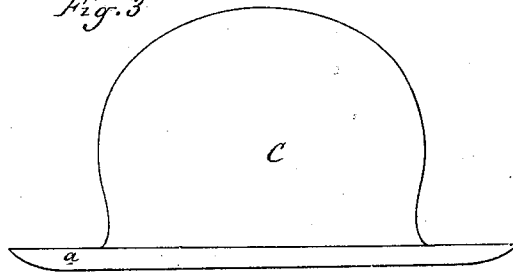


Fig. 3



Attest:
A. Barthel
A. J. Mague

Inventor:
Alonzo W. Eldredge
by Phil. L. Sprague
Atty

UNITED STATES PATENT OFFICE.

ALONZO W. ELDREDGE, OF BIG RAPIDS, MICHIGAN.

STOVE-GRATE.

SPECIFICATION forming part of Letters Patent No. 242,518, dated June 7, 1881.

Application filed February 17, 1881. (No model.)

To all whom it may concern:

Be it known that I, ALONZO W. ELDREDGE, of Big Rapids, in the county of Mecosta and State of Michigan, have invented an Improvement in Stove-Grates and Fire-Pots, of which the following is a specification.

My invention relates to certain new and useful improvements in the construction of grates and fire-pots for cylindrically-shaped heating-stoves; and the invention consists in the peculiarities of construction and operation, and in the combinations, as more fully hereinafter described.

Figure 1 is a vertical and central section of my improved fire pot and grate. Fig. 2 is a horizontal cross-section on the line 2 2 in Fig. 1. Fig. 3 is an outline elevation of the grate detached.

In the accompanying drawings, which form a part of this specification, A represents a fire-pot of a basket form, and which may be either perforated or imperforate, as desired. Below the central opening in the bottom of this fire-pot is supported a flat or channeled ring, B, by means of hanging supports E from the fire-pot above, or by means of lugs or supports springing from the inner walls of the ash-pit of the stove wherein the device is used.

C is the grate, composed of bars either cast or wrought and substantially of the shape shown. The bars radiate from the top, and their bottom ends, *a*, turn outwardly through the

space between the bottom of the fire-pot and the ring B. At the contracted point *b* the bars are secured to a ring, D, the lower edge of which rests upon the ring B, so that it can be rotated upon said ring by any of the various well-known means to shake the fire.

By this construction of a grate the body of the fire may be kept comparatively thin, and air to sustain a perfect combustion may be introduced to all parts of the fire and the whole depth of the fire-pot. By this construction, also, the same quantity of coal will fill a much larger fire-pot, thereby increasing the radiating-surface to be heated by a given amount of fuel.

What I claim as my invention is—

1. In combination with the stationary fire-pot A, the dome-shaped grate C, rising vertically nearly parallel with the fire-pot and extending horizontally under and past the same, substantially as and for the purpose described.

2. In combination with the ring B, suspended by arms E from the stationary fire pot A, the grate C, provided with a ring, D, resting on said ring B and forming a bearing on which the grate may be rotated, substantially as specified.

ALONZO W. ELDREDGE.

Witnesses:

A. BARTHEL,
H. S. SPRAGUE.