D. B. EBERLY.
Heating-Stove.

No. 198,007. Patented Dec. 11, 1877.

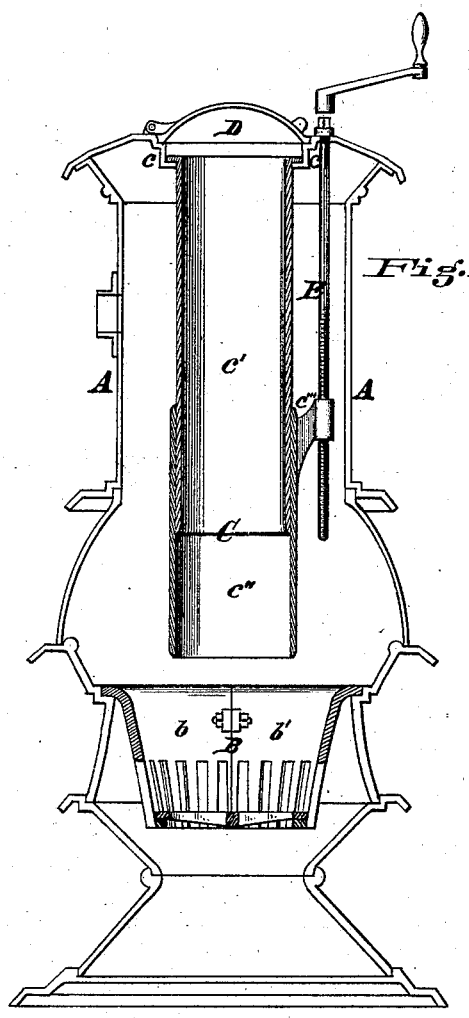

Fig. 1

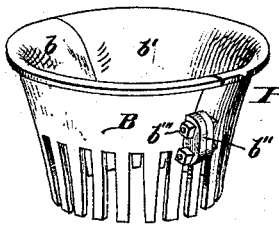

Fig. 2

Attest
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UNITED STATES PATENT OFFICE.

DAVID B. EBERLY, OF PINE VILLAGE, INDIANA, ASSIGNOR TO HIMSELF AND THOMAS J. FARDEN, OF SAME PLACE.

IMPROVEMENT IN HEATING-STOVES.

Specification forming part of Letters Patent No. **198,007**, dated December 11, 1877; application filed May 17, 1877.

To all whom it may concern:

Be it known that I, DAVID B. EBERLY, of Pine Village, Warren county, State of Indiana, have invented an Improvement in Heating-Stoves, of which the following is a specification:

My invention relates to the class of anthracite and other coal stoves which are provided with supply-chambers to feed the fire continuously; and my invention consists, in the first part, in making the feeding-cylinder in two parts, telescope style, one part being arranged to slide on or in the other, and fitted with appliances by which it may be raised and lowered, so that its lower edge may be adjusted to different heights with relation to the grate-basket, the object of this device being to regulate the consumption of fuel and consequent radiation of heat by the adjustment of the feed-throat.

In the accompanying drawings, Figure 1 is a vertical section of an anthracite-stove embodying my invention. Fig. 2 is a perspective view of the cone-basket.

A is the shell of the stove; B, the conical grate-basket, and C the feed-chamber. The feed-chamber is supported from the top on collar *c*, and is fed through cover D.

In place of making the feed-chamber in one piece, I make the principal part *c'* shorter than usual, and fit a sliding part, *c''*, to it, which I construct with a screw-threaded lug, *c'''*. In this lug an adjusting-screw, E, is fitted, which is suspended from the cover of the stove in the manner shown, and provided with a hand-crank, F. By the rotation of this crank the height of the slide *c''* may be regulated, and by its adjustment the amount of coal exposed to consumption between the bottom of the feed-chamber and the top of the cone may be controlled at will, and the capacity of the stove regulated without interfering with the draft.

This regulation of the feed-throat I have found to result in a great saving of fuel.

The basket B, I make in two parts, *b b'*, as shown, each part having two lugs, *b''*, which join and are connected by bolts *b'''*. This device secures a rigid, durable cone-basket, and, by reason of the joint, lessens the chances for the cracking of the cone, and, by reason of its being in two parts, provides for cheap repair.

I am aware that telescopic magazines for stoves are not new; but I believe that I am the first to so combine such a telescopic magazine with the grate-basket of the stove without any intervening throat, that the amount of fuel exposed to combustion above the grate-basket may be increased or diminished by the adjustment of the lower section of the magazine.

I claim—

The combination, substantially as specified, of the stationary grate-basket, the stationary upper section of the magazine or feed-chamber, and the lower section thereof, adjustable up and down by means of a hand-screw, for regulating the amount of fuel exposed to combustion above the top of the grate-basket.

In testimony of which invention I hereunto set my hand.

DAVID B. EBERLY.

Witnesses:

G. W. FREEMAN,

JOSHUA SATTERTHWAITE.