

No. 715,510.

Patented Dec. 9, 1902.

C. S. PRIZER.
FIRE POT FOR STOVES, &c.

(Application filed Sept. 15, 1902.)

(No Model.)

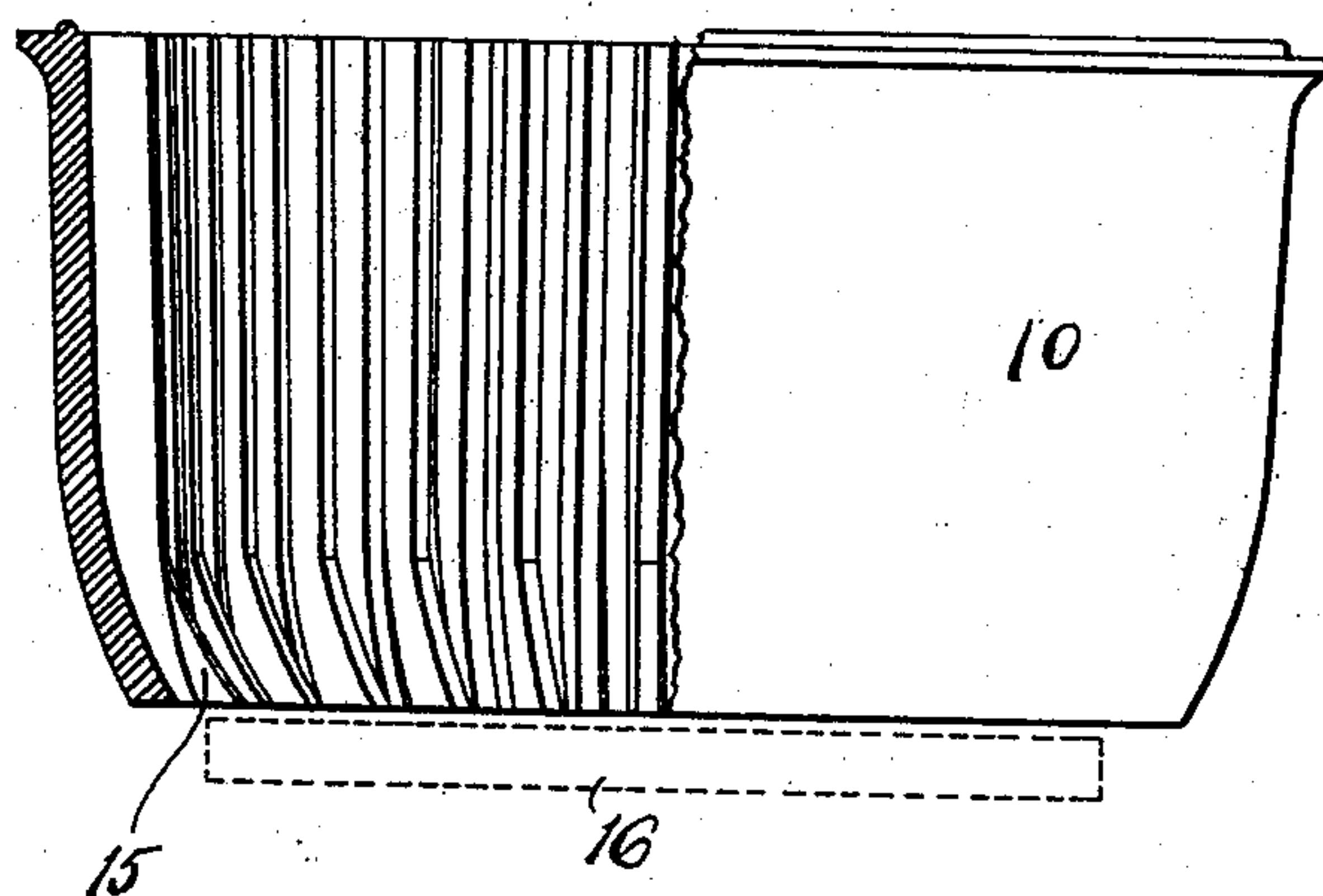
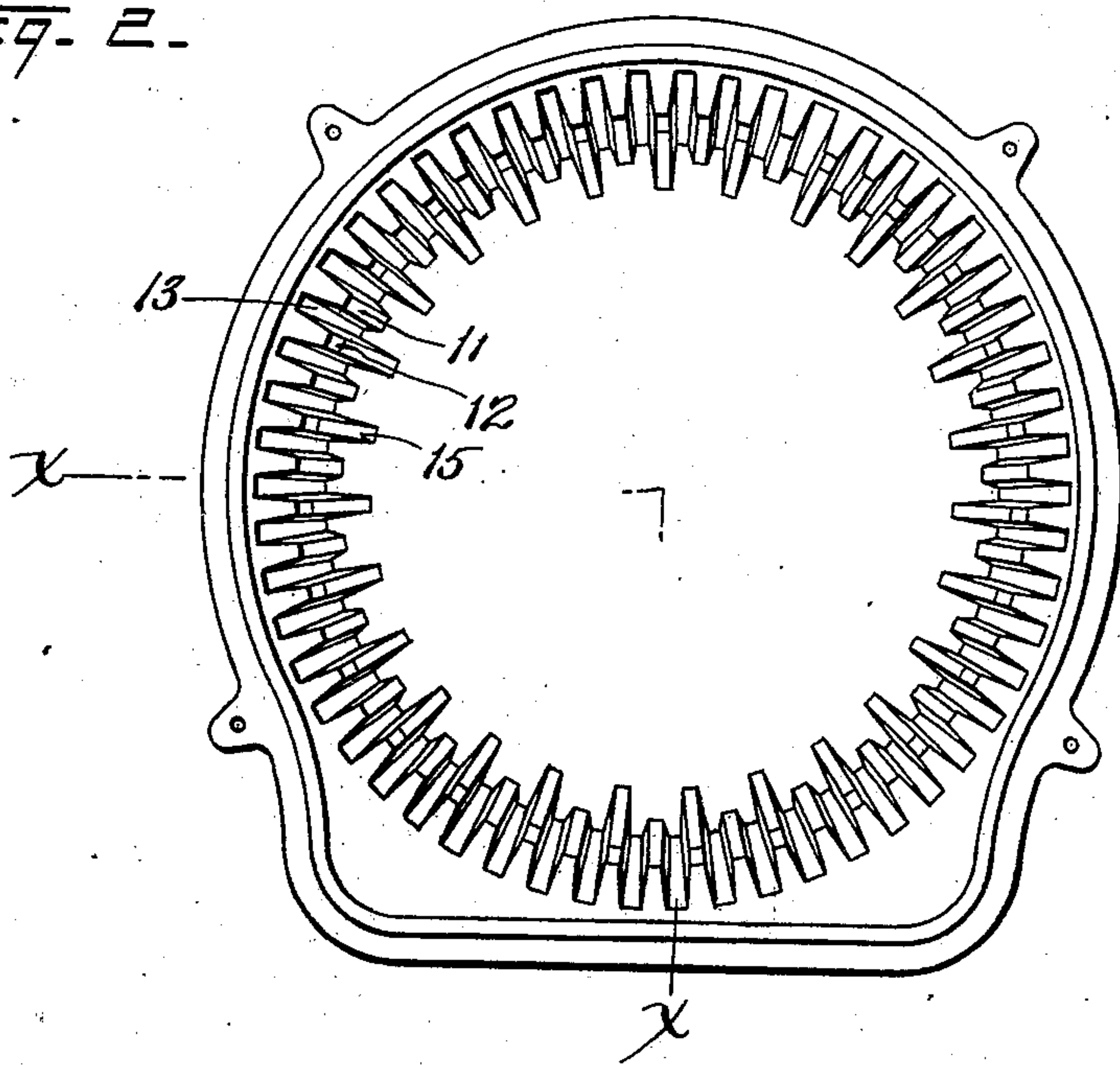


Fig. 1.

Fig. 2.



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CHARLES S. PRIZER, OF READING, PENNSYLVANIA.

FIRE-POT FOR STOVES, &c.

SPECIFICATION forming part of Letters Patent No. 715,510, dated December 9, 1902.

Application filed September 15, 1902. Serial No. 123,482. (No model.)

To all whom it may concern:

Be it known that I, CHARLES S. PRIZER, a citizen of the United States of America, and a resident of Reading, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Fire-Pots for Stoves, &c., of which the following is a specification.

My invention relates to that class of fire-pots for stoves in which provision is made for the upward admission of air around the mass of fuel contained therein for the purpose of securing more uniform combustion and more perfect consumption of the products of combustion; and it consists in the improved construction hereinafter described, whereby satisfactory support is provided adjacent to the wall of the fire-pot for the bottom layer of material therein without unduly obstructing the admission of air around the same or involving unusual expense in construction or difficulty in keeping the air passage-ways sufficiently open from the inlet-point to the points of discharge above the fuel.

The accompanying drawings show a simple form of fire-pot embodying my invention, the novel features of which are specifically pointed out in the subjoined claim.

Figure 1 is a sectional elevation of the fire-pot on the line $x x$ of Fig. 2, the grate being indicated in dotted lines. Fig. 2 is a plan view.

The fire-pot 10, as shown, is of circular form and of gradually-reduced diameter toward the bottom, as usual. Its inner wall or periphery is formed with regularly spaced approximately vertical ribs 11 and 12, respectively, of somewhat-differing construction at their lower portions, as hereinafter described, and arranged alternately. These ribs and the intervening grooves 13 are preferably shaped and proportioned much like the cogs of gear-wheels, as shown, differing materially from the undulatory form of the ordinary internally-corrugated fire-pot in the increased depth of the grooves relative to the width thereof between the apices of the ribs, and thereby furnishing such closely-spaced and

adequately-projected vertical lines of support for the fuel as will practically cause the latter to bridge the gap between the ribs, and thus keep open the grooves 13 or a sufficient portion thereof to form unobstructed air passage-ways beyond the fuel-wall. In order to insure a proper bottom inlet of air to these passage-ways, which would otherwise fail of their purpose, I have found it important to provide special support by means of the ribs themselves for the portion of the bottom layer of material which lies adjacent to the inwardly-inclining wall of the fire-pot at the reduced base portion of the latter. Such support I provide, as shown, in a very simple and practically satisfactory manner by merely extending the lower portion 15 of the alternate ribs 12 inward toward the center of the fire-pot, thus projecting them beyond the corresponding portions of the intermediate ribs 11, and thereby correspondingly pushing the massed material contacting therewith inward sufficiently to practically insure the maintenance of proper-sized openings between the inwardly-projected rib portions for the inlet of air in the direction of the arrow to the grooved passage-ways 13. The operation of the movable grate 16, forming the main support for the fuel, effectively frees the entrance to the air passage-ways from any ashes that might otherwise obstruct the same, though my improved rib construction, as described, while affording proper support for the more solid material tends to prevent at all times the obstructive accumulation of ashes in the air passage-ways.

What I claim is—

A fire-pot having its inner periphery formed with regularly-spaced approximately vertical ribs, the lower portions of alternate ribs being extended inward beyond the intermediate ones.

Signed at Reading, Pennsylvania, this 4th day of September, 1902.

CHARLES S. PRIZER.

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