No. 657,758. Patented Sept. 11, 1900.

E. V. COULSTON.

LINING FOR FIRE BOXES OF STOVES OR RANGES.

(Application filed Feb. 23, 1900.)

(No Model.)

Fig. 1.

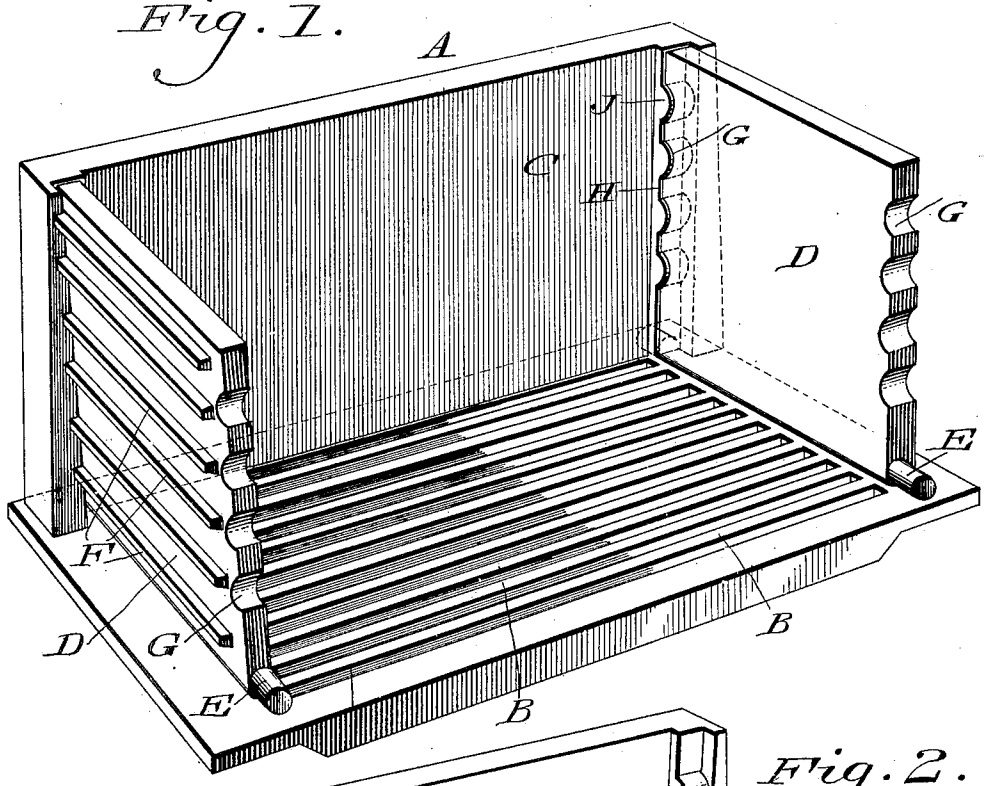
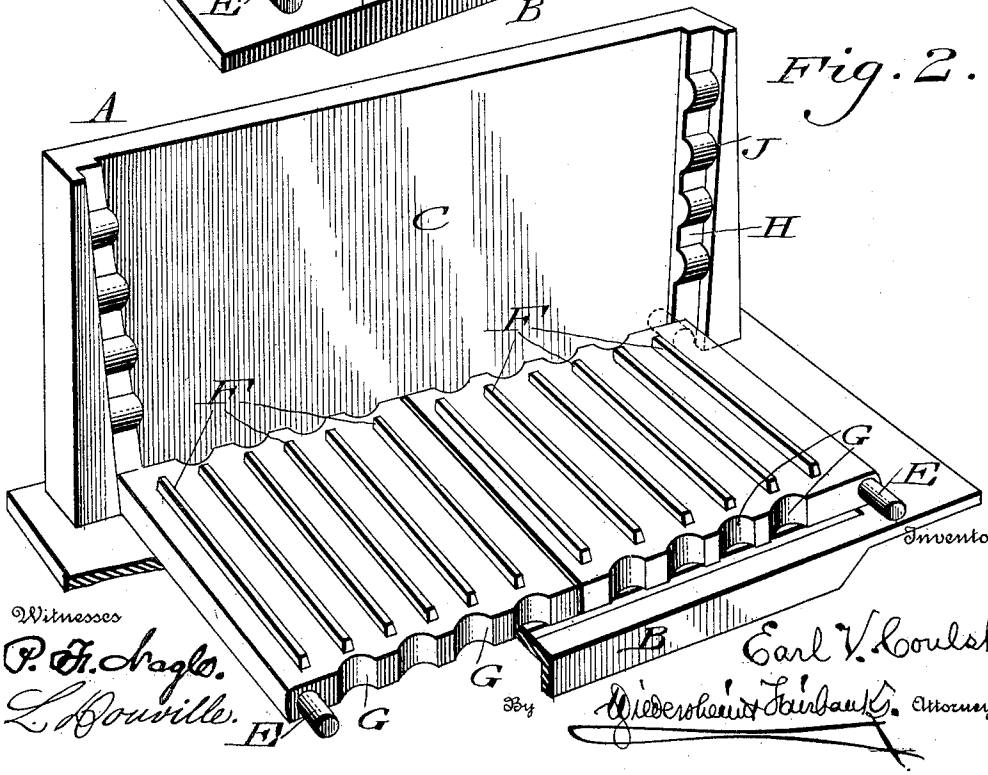


Fig. 2.



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EARL V. COULSTON, OF CHICAGO, ILLINOIS.

LINING FOR FIRE-BOXES OF STOVES OR RANGES.

SPECIFICATION forming part of Letters Patent No. 657,758, dated September 11, 1900.

Application filed February 23, 1900. Serial No. 6,144. (No model.)

To all whom it may concern:

Be it known that I, EARL V. COULSTON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Linings for Fire-Boxes of Stoves or Ranges, which improvement is fully set forth in the following specification and accompanying drawings.

This invention consists of a combined coal and wood burning fire-pot for a stove or range that is provided with the usual coal-burning grate and lining, forming the sides of the fire-pot proper of which said grate is a part, a section, however, of said lining being movable from an upright position, so as to cover the said grate and adapt the said fire-pot for burning wood.

The invention further consists of novel details of construction, all as will be hereinafter fully set forth, and particularly pointed out in the claims.

Figure 1 represents a perspective view of a fire-pot constructed in accordance with my invention, one side being omitted for convenience of illustration. Fig. 2 represents a similar view with certain of the parts in a different position.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates a fire-pot embodying my invention, which consists of a grate B and side linings C, as usual. The grate B is a coal-burning grate of approved construction, while the linings C differ from ordinary linings in that a section thereof is movable from its upright position as a part of the coal-burning fire-pot to a horizontal position upon and covering the grate B when the fire-pot is converted so as to burn wood. In the particular construction illustrated the fire-pot is oblong in plan, and both of the short end sections or walls D of the lining C are movable from their upright position when a part of the coal-burning fire-pot, as shown in Fig. 1, to position covering and resting upon the grate B when the fire-pot is converted so as to burn wood. In the particular construction illustrated the end sections D are provided at their lower ends with trunnions E, mounted in bearings in the other side sections or walls of the lining. The said bearings are situated adjacent the base of the lining and close to the grate B, so that when the sections D are moved to the position shown in Fig. 2 the same rest upon and cover the grate B. It is to be understood that the journals E and the particular bearings in which they are mounted are shown as an approved and convenient construction that permits the said movement of the sections D, but other constructions can be resorted to for this purpose without departing from my invention.

To afford sufficient draft for burning wood, the upper sides of the sections D are ribbed or provided with projections F, that raise the wood sufficiently above the face of the section to allow a draft, while the sides of the sections D are notched or provided with a series of draft-openings G to permit draft between the same and the sections forming the other sides of the fire-pot.

To hold the sections D in an upright position, the ends of the other sections are conveniently provided with inwardly-facing stops H, against which the sections D abut, the said stops being inclined outwardly toward their upper ends to hold the sections D in an outwardly-inclined position, as shown, or any approved fastening device may be employed. The sides of the stops H have suitable projections J, corresponding with the draft-openings G, to effectually close the same.

When the sections D stand in an upright position, as in Fig. 2, the fire-pot, as before stated, is adapted for burning coal. When the sections D are moved downwardly to cover the grate, as in Fig. 2, the large openings of the coal-burning grate B are covered and sufficient draft-openings are afforded to supply the draft for a wood-burning grate. Furthermore, the ends of the fire-pot are thus opened to accommodate long sticks of wood. I thus convert the fire-pot without the necessity of removing or adding any parts thereto, which not only reduces the cost, but obviates the objectionable work of handling the lining or pieces of a fire-pot and the consequent dirt.

As fire-pots are now constructed it is necessary to remove the two end linings entirely

from the fire-pot by hand to obtain convenient room for sticks of wood and also to introduce a new grate or fire-bottom with finer openings for the proper accommodation of wood fuel. With my invention it is unnecessary to remove or introduce any part, as the desired end is obtained by the simple change in position of the sections D.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A fire-pot of the kind specified, consisting of a grate, and a lining, a section of said lining being movable downwardly from an upright position to cover said grate and to leave a gap or opening in the side of the fire-pot occupied by said section of the lining when in its upright position.

2. A fire-pot of the kind specified, consisting of a grate, and a lining, a section of said lining being movably supported at its lower end adjacent the end of said grate, whereby it can be moved downwardly from an upright position to cover said grate and to leave a gap or opening in the side of the fire-pot occupied by said section of the lining when in its upright position.

3. A fire-pot of the kind specified, consisting of a grate, a lining, a section of said lining being movable downwardly from an upright position to cover said grate and to leave a gap or opening in the side of the fire-pot occupied by said section of the lining when in its upright position, draft-openings between said movable section of the lining and the other walls of said lining, and means upon the upper face of said lining to support the fuel above the face thereof to create draft-passages.

4. A fire-pot of the kind specified, consisting of a grate, a lining, a section of said lining being movable downwardly from an upright position to cover said grate and to leave a gap or opening in the side of the fire-pot occupied by said section of the lining when in its upright position, the adjacent walls of said lining being provided with stops against which said movable section rests when in an upright position.

5. A fire-pot of the kind specified, consisting of a grate, a lining, a section of said lining being movable downwardly from an upright position to cover said grate and to leave a gap or opening in the side of the fire-pot occupied by said section of the lining when in its upright position, the adjacent walls of said lining being provided with inclined stops against which said movable section rests when in an upright position.

6. A fire-pot of the kind specified consisting of a grate, a lining, a section of said lining being movable downwardly from the upright position to cover said grate and to leave a gap or opening in the side of the fire-pot occupied by said section of the lining when in its upright position, said movable section being provided with notches or draft-openings in the side edges thereof.

7. A fire-pot of the kind specified, consisting of a grate, a lining, a section of said lining being movable downward from an upright position to cover said grate and being provided with notches or draft-openings in the side edges thereof, and stops upon the adjacent walls of said lining adapted to support said movable section in an upright position, said stops being provided with projections that are adapted to enter said notches or draft-openings.

8. A fire-pot of the kind specified, consisting of a grate, a lining, the end walls of said lining being pivoted at their lower ends adjacent the ends of said grate, notches or draft-openings in the side edges of said pivoted end sections of the lining, ribs or projections upon the upper sides of said pivoted end sections, and stops upon the other walls of the lining adapted to support said pivoted sections in an upright position.

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