

No. 874,103.

PATENTED DEC. 17, 1907.

C. H. MILLER, JR.
KITCHEN RANGE.

APPLICATION FILED JUNE 10, 1907.

Fig. 1.

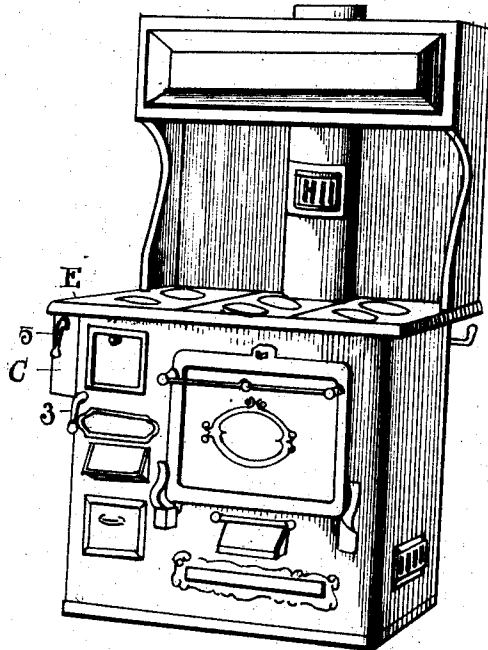


Fig. 2.

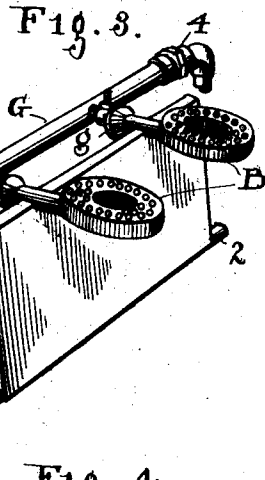
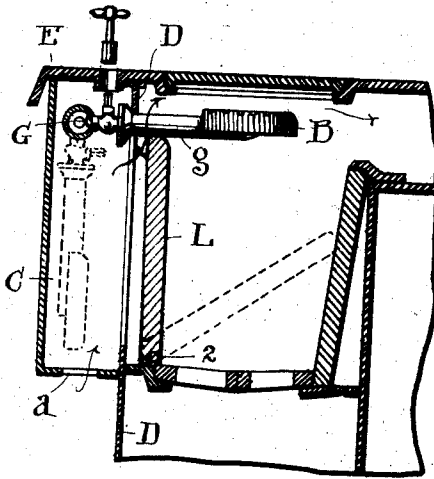
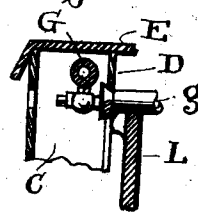


Fig. 4.



WITNESSES:
E. M. Fisher
J. Q. Newman.

INVENTOR.
Carl H. Miller, Jr.
BY
Fisher & Wood
ATTORNEYS.

UNITED STATES PATENT OFFICE.

CARL H. MILLER, JR., OF CLEVELAND, OHIO.

KITCHEN-RANGE.

No. 874,103.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CARL H. MILLER, JR., a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Kitchen-Ranges, and do declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in kitchen ranges, and the invention consists in a range provided with both a fire-pot for solid fuel and a fluid fuel burner operatively associated with said fire-pot and the two adapted to alternate use, substantially as shown and described and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a front perspective view of a range embodying my invention, and Fig. 2 is a cross section thereof. Fig. 3 is a perspective view of the fluid burner mechanism and the pivoted side wall of the fire pot, as hereinafter fully described. Fig. 4 is a view of a modification.

The range as thus shown is designed to be easily converted from a solid fuel range to a fluid or gas range as necessity or convenience may require. To this end I provide the range with a supplemental burner chamber C, shown as extending the full depth of the fire-box or pot transversely of the range and covered by the top plate E of the range and having draft openings *a* at the bottom, or at any other suitable place in said chamber.

The metallic wall or plate D of the range proper at the outside of the fire pot forms the dividing line between said chamber and fire box, and is provided with a recess or opening large enough to swing burners B into or over said fire-pot as shown. Fire brick wall or metal lining L rests against this plate at its ends when raised and thus covers said recess or opening. Said wall is provided with a pivot or hinge support 2 at its bottom and a crank arm 3 extending outside the range for controlling the position of said wall or lining, as seen in full and dotted lines respectively, Fig. 2, and burner or burners B are supported by their joints or connections *g* with rotatable supply pipe G, with which gas connections are made by a suitably packed joint 4. At the opposite end said pipe has a crank arm or lever 5 by which the burners are

raised and lowered to and from working position.

In operation, when hard fuel is used, such as coal or wood, the fire pot wall L is raised, as in full lines Fig. 2, and the burners are retired and hang suspended in chamber C out of the way, as in dotted lines, Fig. 2. But when the fluid or gas fuel is to be used wall L is swung inward into inclined position, dotted lines Fig. 2, and burners B are swung into horizontal position full lines, Fig. 2, when said wall L is again thrown back as in full lines and becomes a support for the burners. Burners B are held in a horizontal position practically over the fire-pot in a position to impart their heat directly beneath the first set of openings in the top of the stove and to distribute the heat to the other openings as the products of combustion travel to the rear and downward beneath the oven for escape. Obviously, I might provide other means than wall L for supporting the burners in working position, and said wall might in such case be lowered when burners B are used, but the present arrangement is preferred.

What I claim is:—

1. A kitchen range having a chamber and a fire-pot open thereto at its side, and a fluid burner suspended in said chamber and adapted to be swung into using position in said fire-pot.

2. A kitchen range having a supplemental chamber next outside its fire-pot and a side wall for said pot pivoted at its bottom and adapted to swing from said pivot into the fire-pot and a fluid burner in said chamber.

3. A kitchen range having a fire-pot and a wall at one side thereof pivoted to turn inward at its top, combined with a burner chamber at the side of said fire-pot next to said wall and open at one side to said fire-pot.

4. A kitchen range provided with a fire-pot, in combination with a fluid burner pivotally supported and adapted to be swung into a horizontal position in the top of said fire-pot.

5. In kitchen ranges, a range having a fire-pot provided with a side wall pivoted at its bottom to swing into said pot, in combination with a fluid burner adapted to swing into horizontal position at the top of said fire-pot above said wall.

6. A kitchen range having a fire-pot and a burner chamber outside said pot, and a pivoted member adapted to close between said

pot and chamber, in combination with a fluid burner rotatably suspended in said chamber, and means projecting outside said chamber adapted to turn said burner to and from working position.

7. In kitchen ranges, the combination of a pivotally mounted fluid burner with a pivotally mounted fire-pot lining adapted to support said burner.

8. In combined coal and gas ranges, a fire pot and a chamber opposite thereto having an air intake, and a fluid burner rotatably mounted within said chamber and adapted to be moved into said fire-pot.

9. In combination, the fire-pot of a kitchen range, with a fluid burner movably mounted in respect thereto and adapted to rest in its upper portion.

10. In combination, the fire-pot of a

kitchen range, with a fluid burner movably supported in respect thereto and adapted to rest therein, and means on the outside of the range to carry said burner to and from its respective positions.

11. In combination, the fire-pot of a kitchen range having a movable side portion, with a fluid burner movably supported outside of said fire-pot and adapted to rest therein, and means on the outside of said range adapted to actuate said respective movable parts.

In testimony whereof I sign this specification in the presence of two witnesses.

CARL H. MILLER, JR.

Witnesses:

CHARLES H. MILLER,
R. B. MOSER.