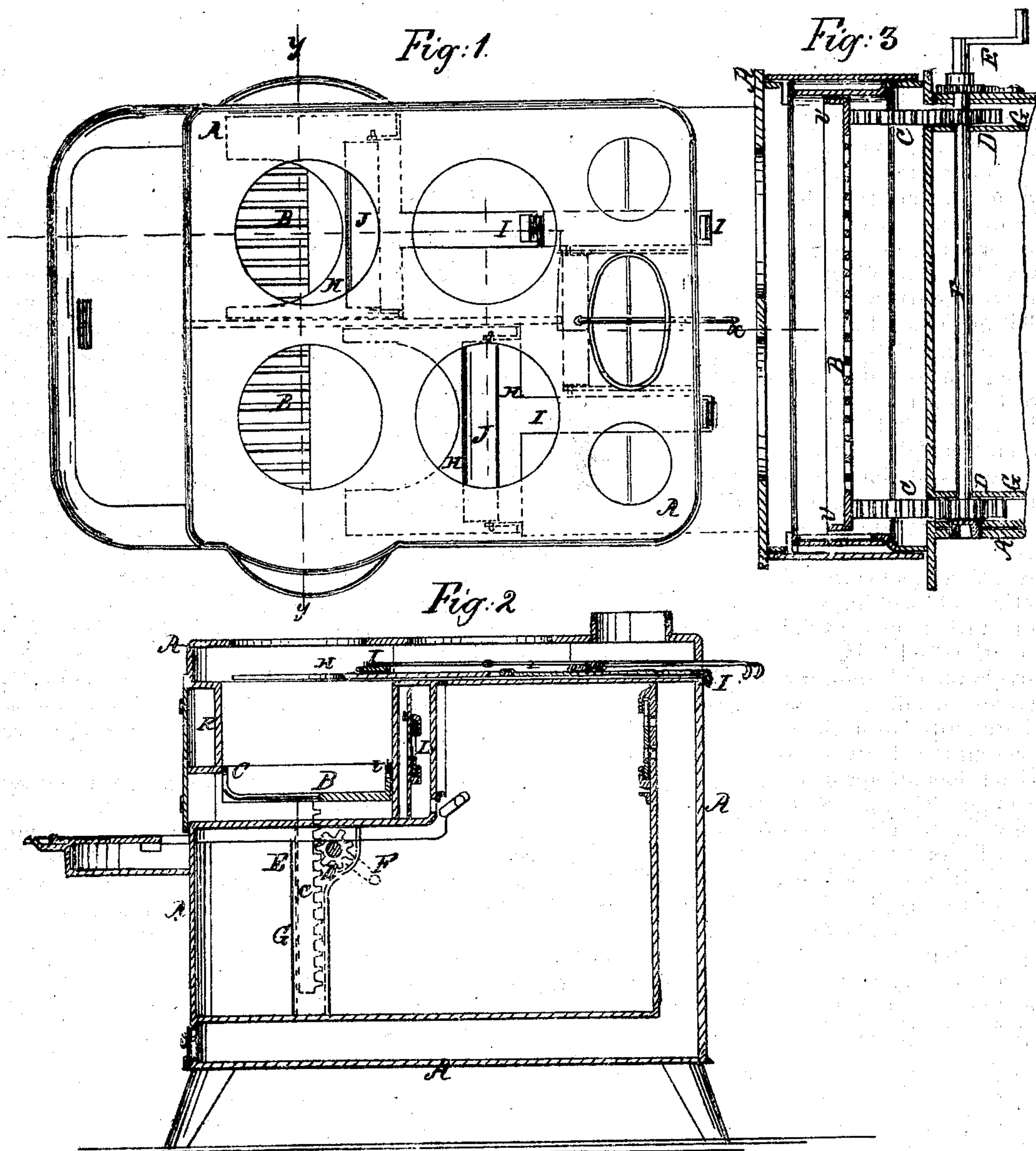


S Gregory's Cooking-Stoves.

116832

PATENTED JUL 11 1871.



Witnesses:

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UNITED STATES PATENT OFFICE.

SETH GREGORY, OF SOUTH NORWALK, CONNECTICUT.

IMPROVEMENT IN COOKING-STOVES.

Specification forming part of Letters Patent No. 116,832, dated July 11, 1871.

To all whom it may concern:

Be it known that I, SETH GREGORY, of South Norwalk, in the county of Fairfield and State of Connecticut, have invented a new and useful Improvement in Cooking-Stoves; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a top view of my improved stove. Fig. 2 is a vertical longitudinal section of the same taken through the line *x x*, Fig. 1. Fig. 3 is a detail cross-section of the upper part of the same taken through the line *y y*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to improve the construction of cooking-stoves so as to more thoroughly utilize the heat developed by the combustion of the fuel. The invention consists in the construction and combination of certain parts of the stove for effecting the desired result, as will be hereinafter described.

A represents the body of the stove; B, the fire-grate, which has an upturned flange, *b'*, around its outer edge. C C are rack-bars; and D, a pinion on shaft E, which is operated by a detachable crank, F, for raising or lowering the grate. A casing, G, incloses the racks and crank-shaft.

The air heated in chamber K, which is formed on the front and ends of the fire-box, passes around into chamber L at the rear of the box, and thence into the oven, from which it escapes into the flue by suitable openings. Slides are provided for closing the several apertures. To

the stove thus constructed I apply my improvement in slides and dampers.

H are slides, the forward edges of which are concave to fit upon or around the bottom of a boiler or other cooking utensil, and to the rear edge of which are attached bars I, which extend out through holes in the rear plate of the stove, so that the slides may be conveniently operated. The bars or handles I are jointed, so that when the slides H are drawn back away from the fire-box, the projecting ends of said handles may drop down along the back of the stove, so as to be out of the way. J are damper-plates, hinged at one edge to the upper side of the slides H, so that by turning up one of said dampers the flame and other heated products of combustion may be compelled to pass to the other end of the fire-box before escaping into the draught-passages.

By pushing the slides H forward the flame is compelled to rise along the forward part of the boiler or other vessel and pass back around the lower part of the vessel before escaping into the draught-passages. This construction enables the heat to be so controlled as to be utilized to its fullest extent.

What I claim as new, and desire to protect by Letters Patent, is—

The damper-plates J, arranged in connection with the slides H, so as to be moved forward and backward therewith, and to be operated by hinged rods or bars, substantially as specified.

SETH GREGORY.

Witnesses:

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