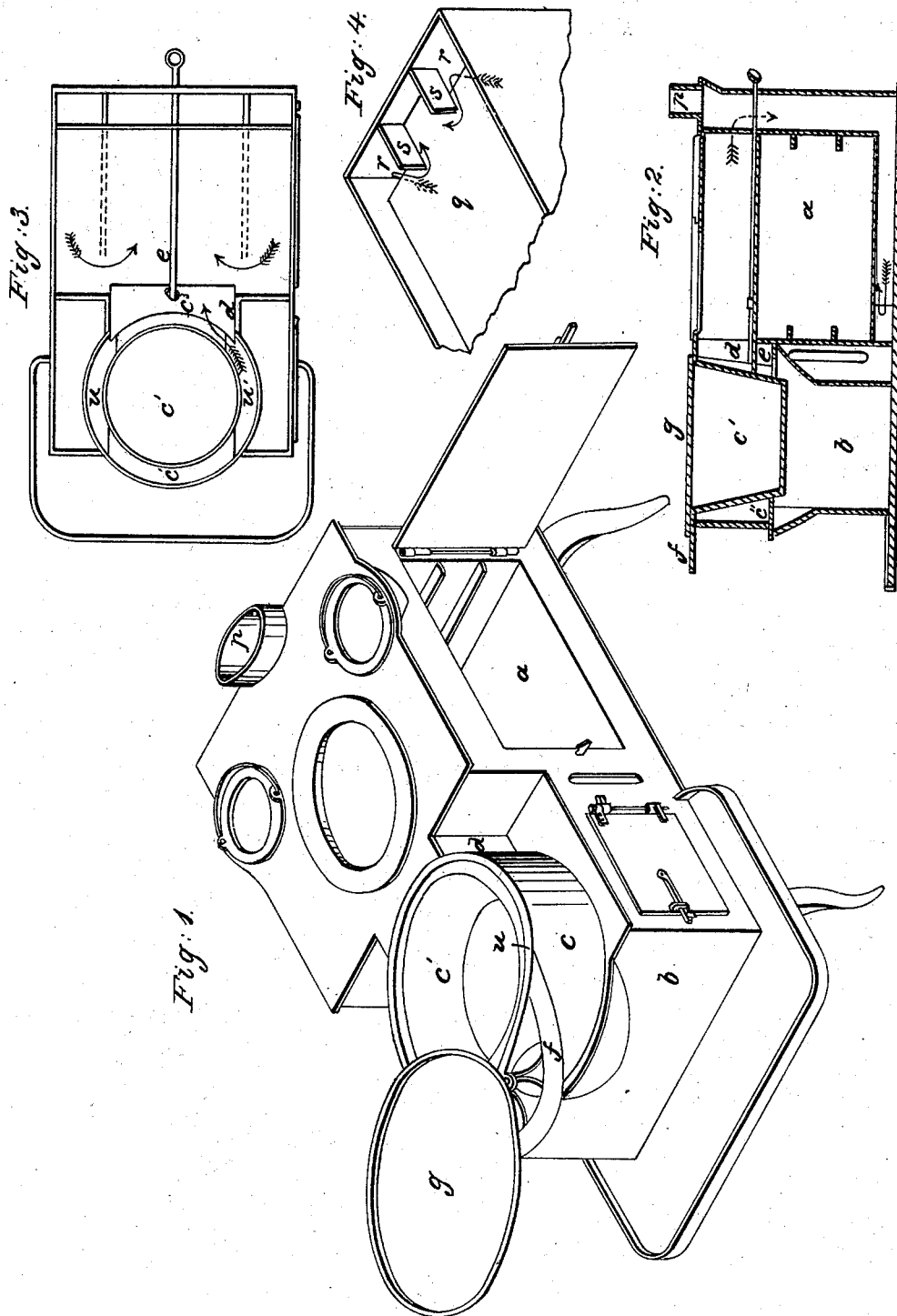


P. MILLS.
Reservoir Cooking Stove.

No. 3,570.

Patented April 30, 1844.



UNITED STATES PATENT OFFICE.

PETER MILLS, OF BINGHAMTON, NEW YORK.

COOKING-STOVE.

Specification of Letters Patent No. 3,570, dated April 30, 1844.

To all whom it may concern:

Be it known that I, PETER MILLS, of Binghamton, in the county of Broome and State of New York, 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, reference being had to the accompanying drawings, which form a part of this specification, in which—

Figure 1 is an isometrical view; Fig. 2 a vertical section; Fig. 3 a top plan with the top plate removed.

The nature of my invention consists in placing over the fire chamber a double cylinder having a flue between the outer and inner portion and affixing thereto a swivel cover, the inner cylinder serving the purpose of an oven or as a recess into which a boiler can be set.

The construction is as follows: The rear section of the stove in which the oven (*a*) is situated is nearly cubical, and projecting from its front side is a projection of about the same length and width and two thirds the height; this latter portion contains the fire chamber (*b*) and has a hearth in front and extending around the two sides; on the top there is a cylindrical ring (*c*) which is as high as the top of the back section above named and is joined therewith by a short flue (*d*); there is a rim at the top (*u*) and bottom (*u'*) of this cylinder that projects inward to the inner cylinder (*c'*) and forms the top and bottom of the flues (*x*) which are between them; the inner cylinder is formed with a bottom to it and serves for the upper plate of the fire chamber; an aperture is made at (*c*²) through the lower ring of the outer cylinder on the front side and an opening into the flue (*d*) in the cylinder (*c*) which completes the connection with the other parts of the stove; besides this there is an opening (*c*³) in the lower ring of the cylinder (*c*) directly under the flue (*d*) for permitting the exit of the heat &c. directly toward the oven behind without passing around the front cylinder. This is closed by a damper (*e*). On the upper front edge of the outer cylinder there is a ledge (*f*), and a cover (*g*) is jointed to it so as to swivel around and cover the inner cylinder

or be turned back and supported by the ledge (*f*). The door of the fire chamber may be in the side, and those of the oven (*a*) on each side; the flue after passing over the top of the oven descends down both back corners and under the oven and returns in the center and out at the pipe (*p*). (This not being new is not shown in the drawings.)

Another modification of flues is when the flues are so constructed, as that a portion of the heat is carried directly from the fire under the oven and up the back thereof, the flue being the whole width of the stove. It is intercepted before entering the flue by the center portion of the top plate (*q*, Fig. 4,) which extends back to the back plate of the stove and covers about one-half of the whole width of the flue, leaving an opening (*r*) at each corner about one fourth the width of the flue below. From each edge of the projecting part of the top oven-plate (*q*) next the openings (*r*) a flanch (*s*) rises to the top plate of the stove; these flanches project forward a little, over the oven, but not far enough to interfere with the back boilers. In other respects the stove is somewhat similar to that before described, but it may have two double front cylinders, and four boiler holes if desired. This last construction causes the heat &c. that passes up the back flue to divide at the top and pass around the flanches a little distance over the oven at the back upper corner, and then into the pipe, thus equalizing the heat over the whole surface of the oven.

What I claim as my invention and desire to secure by Letters Patent is—

1. The arrangement of the double cylinder in combination with the flue spaces and damper constructed and arranged in the manner and for the purpose herein described its situation being over the fire chamber and in front of the oven.

2. I also claim in combination therewith the revolving cover (*g*) and ledge (*f*) as before specified.

PETER MILLS.

Witnesses:

J. J. GREENOUGH,
LAFAYETTE CALDWELL.