W. RESOR.

Damper.

No. 24,577. Patented June 28, 1859.

Fig. 2

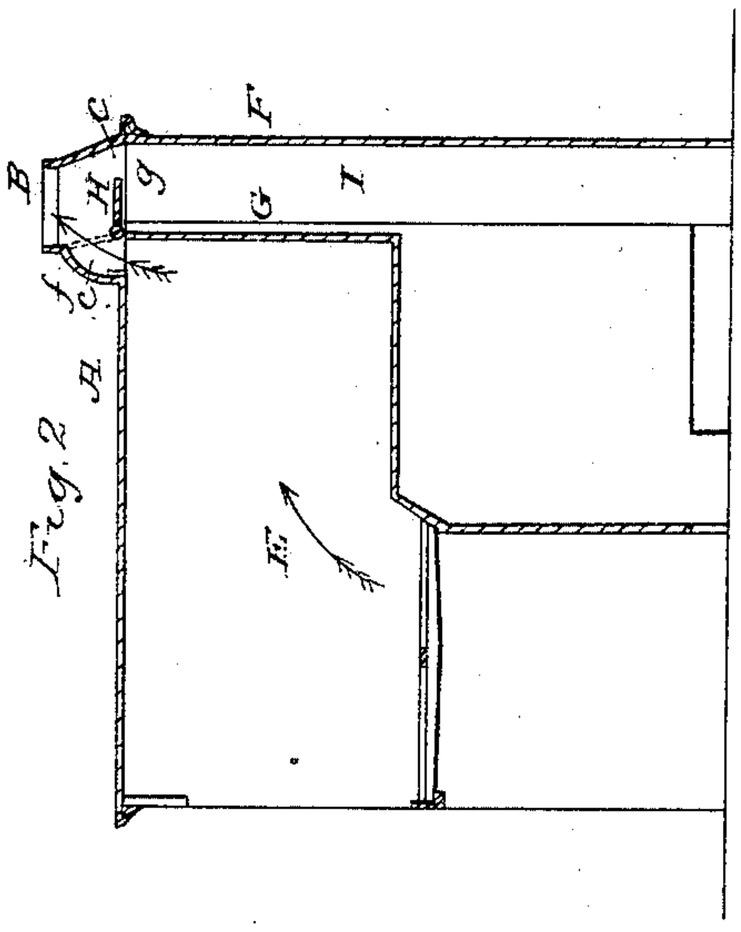



Fig. 3

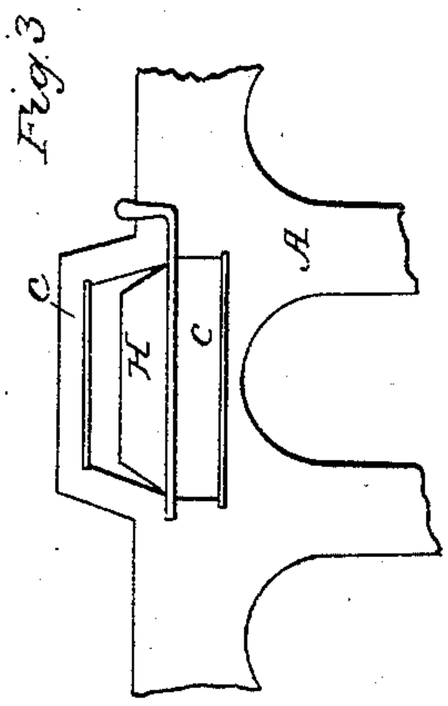
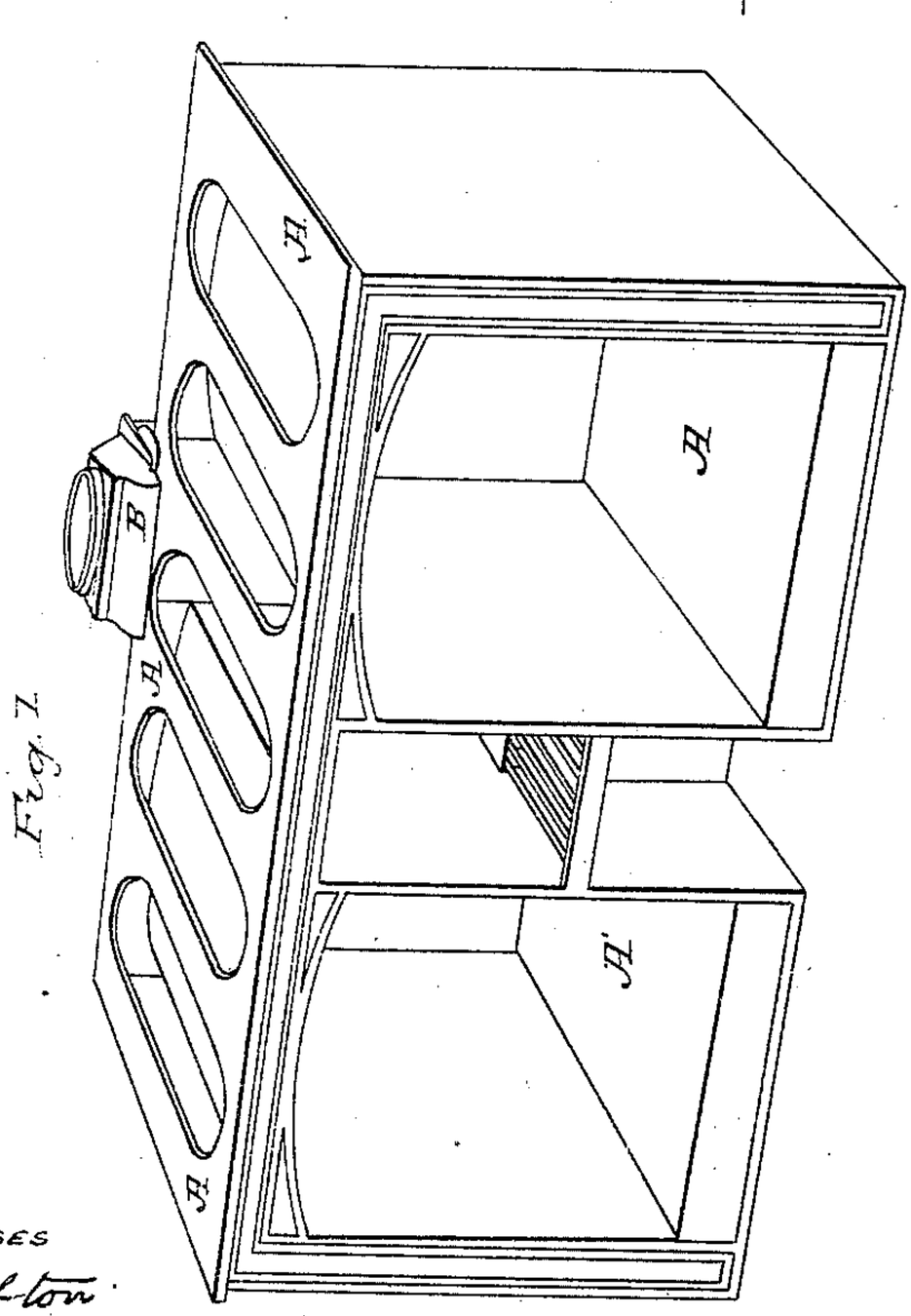



Fig. 1




WITNESSES

H. Clifton
Clarke & Fisher.

INVENTOR

W. Resor,

# UNITED STATES PATENT OFFICE.

WILLIAM RESOR, OF CINCINNATI, OHIO.

## COOKING-RANGE.

Specification of Letters Patent No. 24,577, dated June 28, 1859.

*To all whom it may concern:*

Be it known that I, WILLIAM RESOR, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Regulating the Draft in Cooking Ranges and Stoves; and I do hereby declare that the following is a full and clear description thereof, reference being had to the accompanying drawings, and the letters of reference marked thereon, forming part of this specification.

My invention relates to certain improvements in regulating the draft in cooking ranges and stoves, described specified and represented as follows.

By reference to the annexed drawings, Figure 1 represents a perspective view of cooking range with the doors, and front, removed, so as to exhibit the flue spaces ovens, fire box, and ash pit. Fig. 2, represents a transverse section through the center of the range, and Fig. 3, a detached view of a portion of the top plate, showing a plan of the valve or damper, and main draft flues, arranged as hereinafter described.

I am aware, that various devices have been essayed to secure direct action or draft in cooking ranges and stoves, having a system of air heating chambers, but those contrivances have all been attended with objections. Those difficulties may be entirely obviated, by an exceedingly simple and efficient arrangement, as follows:

The top plate (A) of the range is cast independent of the cap (B) and has projecting from its surface flanches (*c*, *c*) which hold the cap (B) in its proper position, and also prevent the escape of smoke or gases, the opening in the plate (A) is made so as to allow a free passage for the smoke, up through the flue space (D) formed by the back plate (F) and fire plate (G) as is common in all cooking ranges and stoves, but this opening extends over the fire plate (G) and communicates with the fire chamber (E) directly in its rear. The cap, or, cover (B) of the form and arranged in the manner shown in Fig. 1, is cast separate from the plate (A), and is bolted to it so as to cover the direct flue space (*d*) and flue (*g*). Before this cap (B) is secured to its place, a valve or damper (H) shown clearly in Figs. 2, and 3, is laid on plate (A) as shown in Fig. 3, so that when the cap (B) is bolted firmly to the plate (A) the damper (H) will be secured in its proper position for use or the whole top of the stove may be cast together if more convenient, but so as to admit the damper to be placed in the same position on the top of the stove or range and to answer the same purpose in the manner set forth. It will be readily seen, that when fire is to be made in the range, ready access may be had to the damper (H) and a direct communication thus secured from the fire box to the main draft, or smoke pipe, by means of which the fire will be made to kindle readily, and when it is in proper condition to sustain the necessary degree of combustion, the damper (H) will be thrown up against the damper seat (*f*) and so, shut off direct draft, and allow the furnace to heat rapidly. The heating of the furnace, may in this manner be regulated as required.

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

The peculiar construction of the plate A, B, which constitutes the upper plate of the stove, forming as it does, the plate of the stove, the arched roof of the damper chamber, and part of the chimney pipe, in the manner and for the purpose set forth.

WM. RESOR.

Witnesses:
H. E. CLIFTON,
CHARLES L. FISHER.