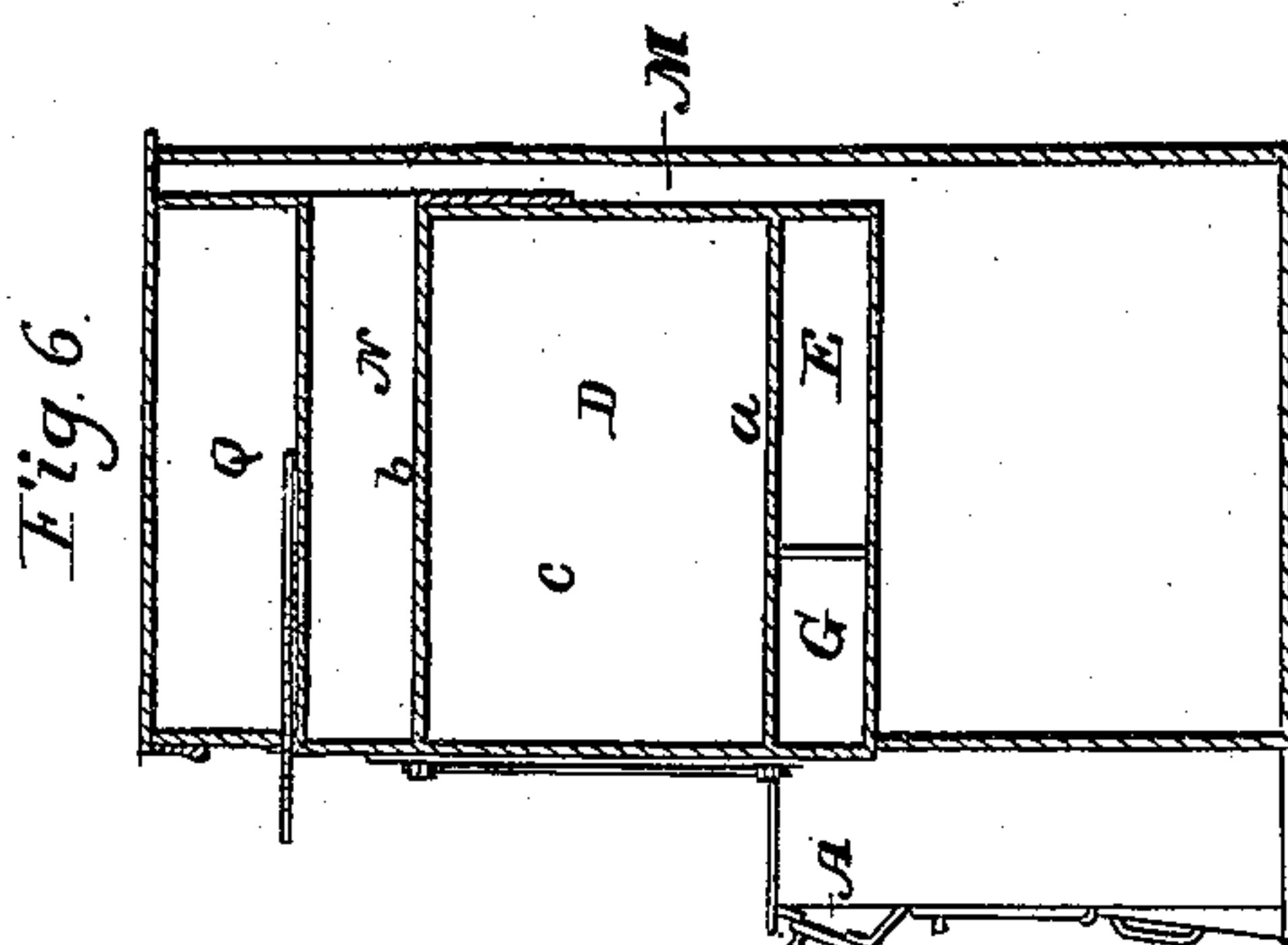
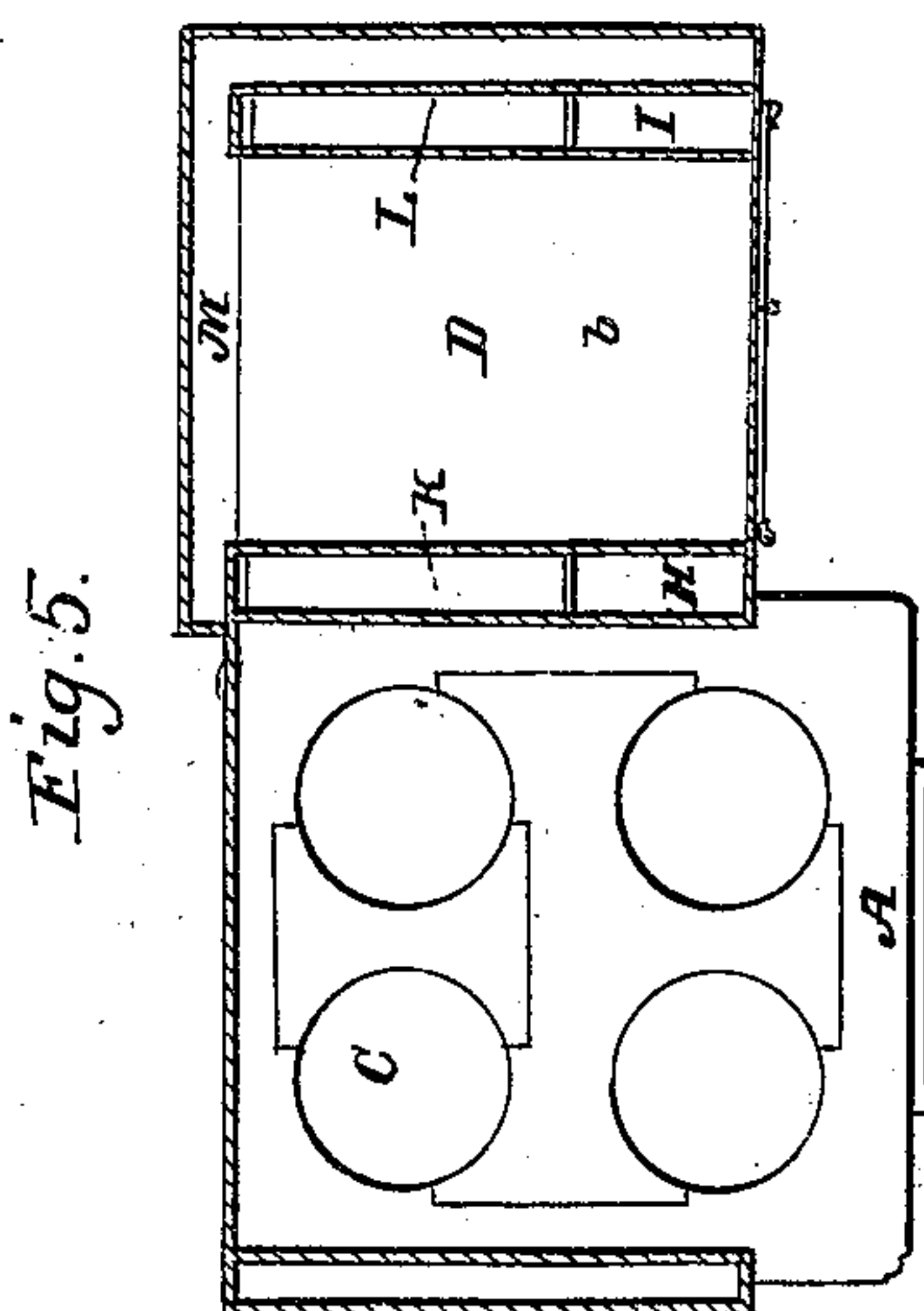
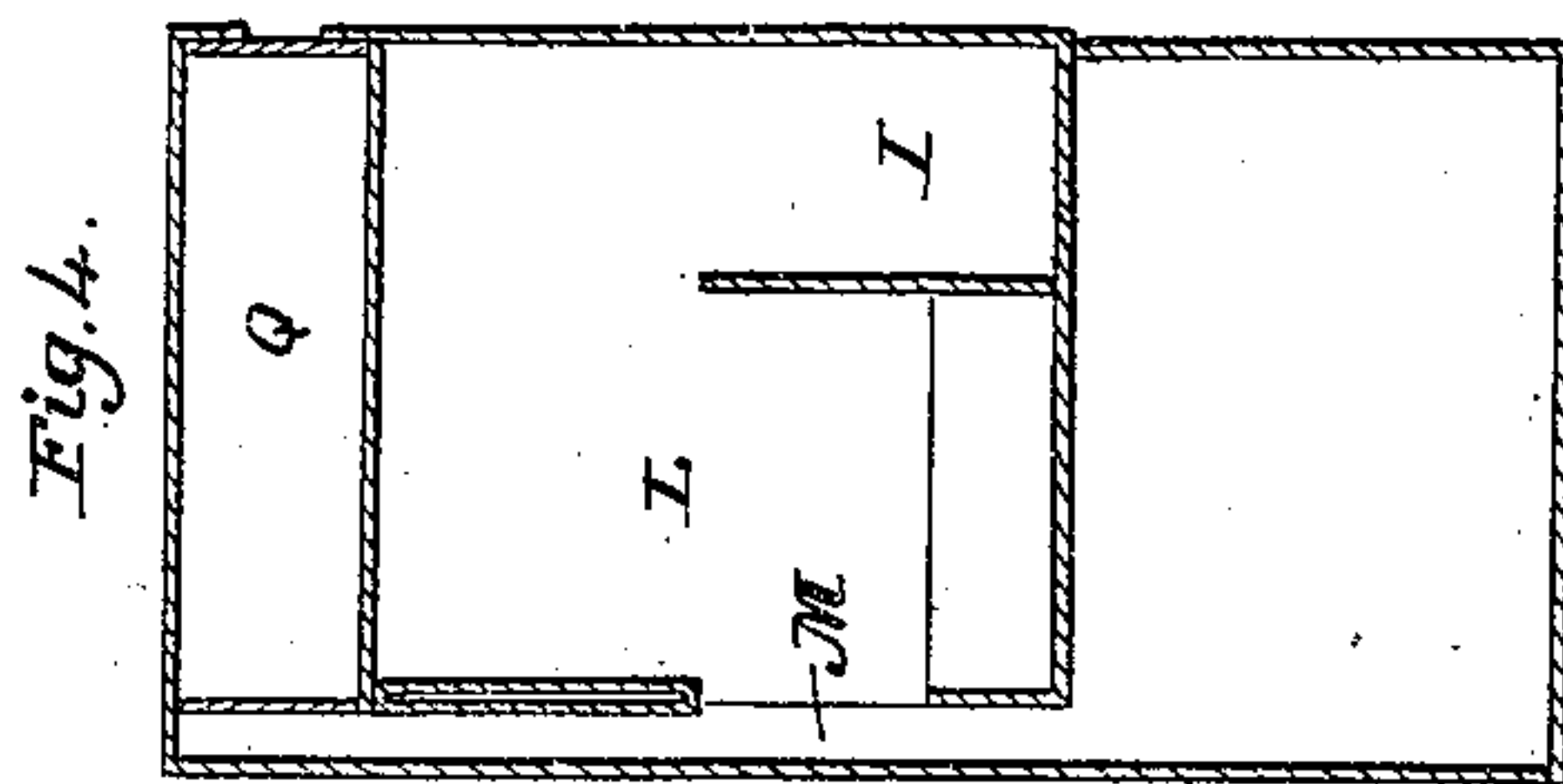
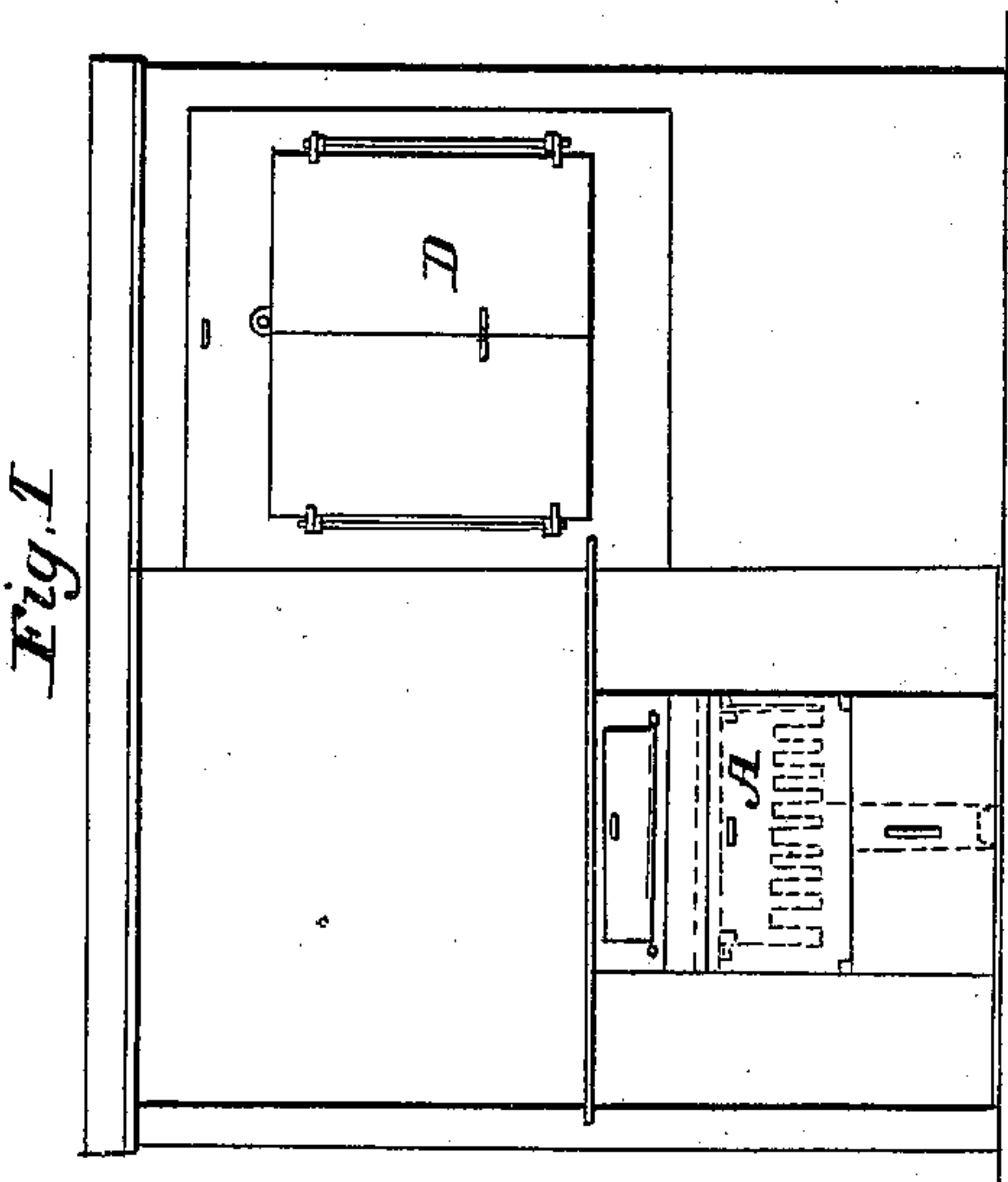
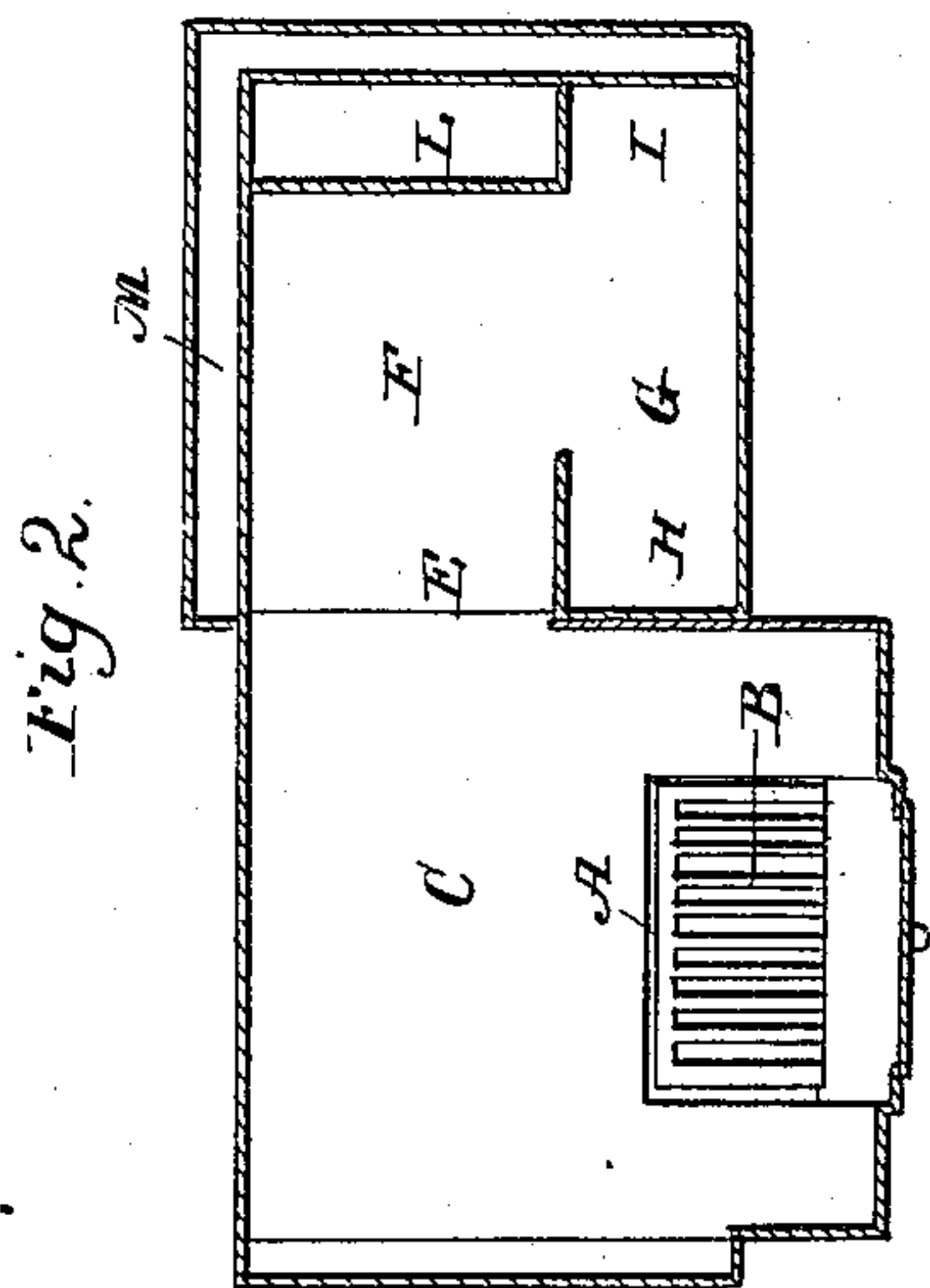
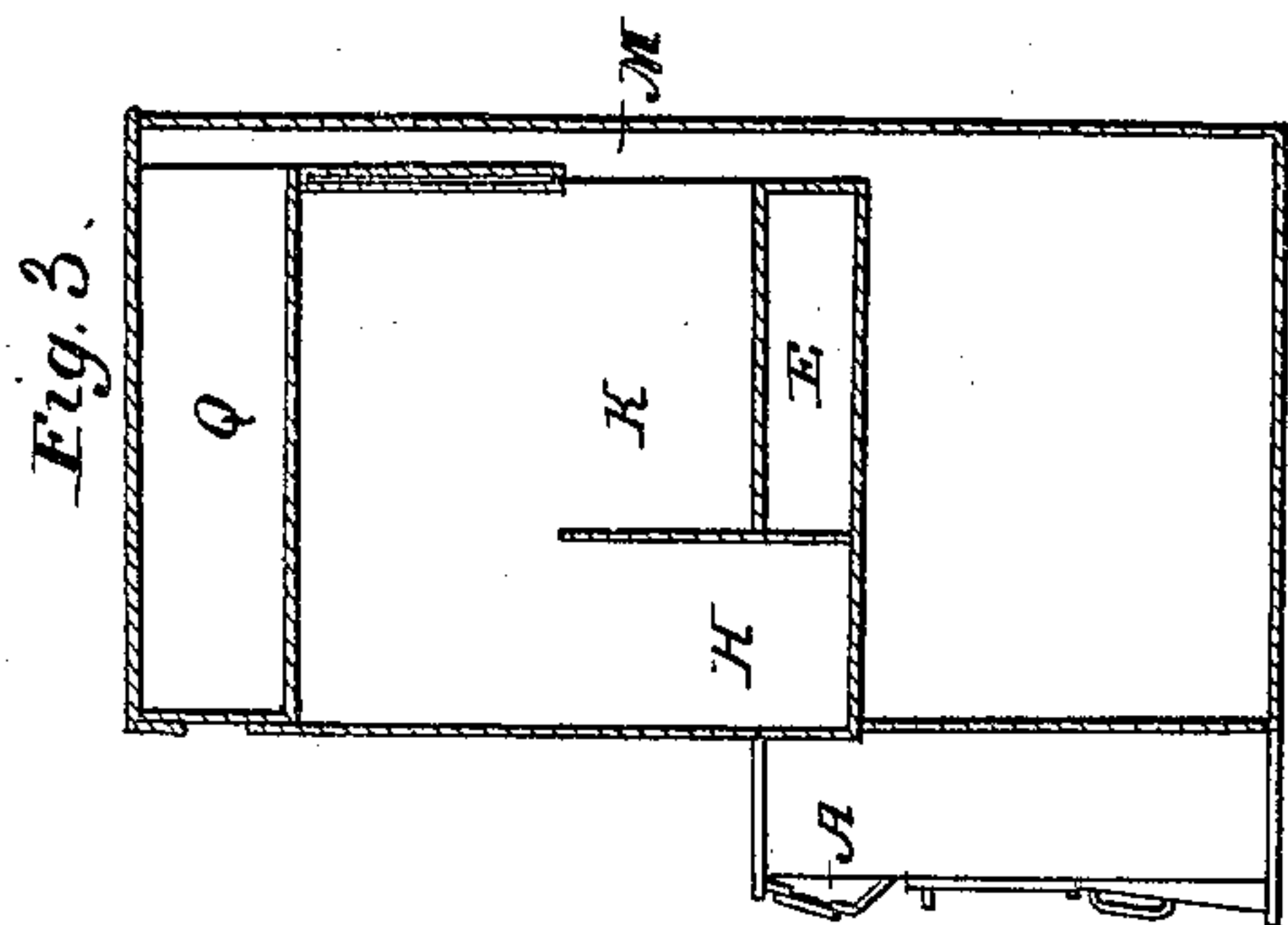


D. P. WEEKS.  
Cooking Stove.

No. 12,110.

Patented Dec. 19, 1854.



# UNITED STATES PATENT OFFICE.

DANIEL P. WEEKS, OF MALDEN, MASSACHUSETTS.

## OVEN COOKING-RANGE.

Specification of Letters Patent No. 12,110, dated December 19, 1854.

*To all whom it may concern:*

Be it known that I, DANIEL P. WEEKS, of Malden, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in the Elevated Oven Cooking-Range; and I do hereby declare the same is fully described and represented in the following specification and the accompanying drawings, figures, and references thereof.

Of the said drawings, Figure 1, denotes a front elevation of my improved range. Fig. 2 is a horizontal section of it taken through the flues directly underneath the oven. Fig. 3, is a vertical and transverse section taken through the flues on the left side of the oven. Fig. 4, is a vertical and transverse section taken through the flues on the opposite side of the oven. Fig. 5, is a horizontal section taken directly over the top of the oven. Fig. 6, is a vertical and transverse section taken through the middle of the oven.

In the said drawings, A denotes the fire place of which B is the grate, and C the boiling chamber over the fire place, D is the oven. From out of the rear part of the boiling chamber, and one side of it and by means of an opening E, the smoke and volatile products of combustion are led underneath the oven they being carried into a flue space F, that extends underneath the rear half or portion of the bottom plate *a*, of the oven and is made to open into another flue space G, that extends transversely across underneath and in contact with the under surface of the front half or portion of the bottom plate of the oven. This flue G, is made to communicate at its two opposite ends with two flues H, I, that respectively extend upward against the front portions or halves of the side plates, *c*, of the oven. Each of the said flues H, I, is made to open at or near its upper end into one of two descending flues K, L, which are respectively arranged against the rear halves of the side plates, *c*, and are made to open into one large flue, M, that is carried up against the end plate, *e*, of the oven. The last mentioned flue, M, is made to open at its upper end into a broad flue, N, that is carried directly over the top plate, *b*, of the oven and opens into the discharge flue, Q, through an

opening, O, to which a sliding damper, P, is applied.

In my arrangement of flues about the oven, it will be seen that from one main flue under the rear part of the oven, the currents of smoke and volatile products of combustion are made to enter another flue at the bottom of the oven and thence to branch off in two directions under the front part of the bottom of the oven, and to pass up against the two sides of the oven, thence down against said sides and into a flue leading against the rear end of the oven, the currents uniting in said flue and passing from thence over and in contact with the entire top plate of the oven.

What therefore I claim as my invention is my improved arrangement and combination of flues by which the smoke is carried around and in contact with, and made to heat the elevated oven of a cooking range, such causing the smoke to be led first against the rear half or portion of the under surface of the bottom plate of the oven, next against the front half or portion of the same and in opposite directions to the two vertical sides of the oven; next upward against the front half or portion of the external surface of each of the side plates of the oven; next downward in contact with the remainder of each of the side plates of the oven; next into and upward through a flue disposed directly against the rear surface of the rear end of the oven and thence finally over and against the entire upper surface of the top plate of the oven, and thence through the discharge opening substantially as hereinbefore stated; the same enabling the oven not only to be thoroughly heated on its two sides, its bottom, top and rear end, but to be so with a facility that insures quickness and strength of draft around it, whereby good combustion in the fireplace is obtained and maintained.

In testimony whereof I have hereunto set my signature this twenty fifth day of May A. D. 1854.

DANIEL P. WEEKS.

Witnesses:

R. H. EDDY,  
F. P. HALE, Jr.