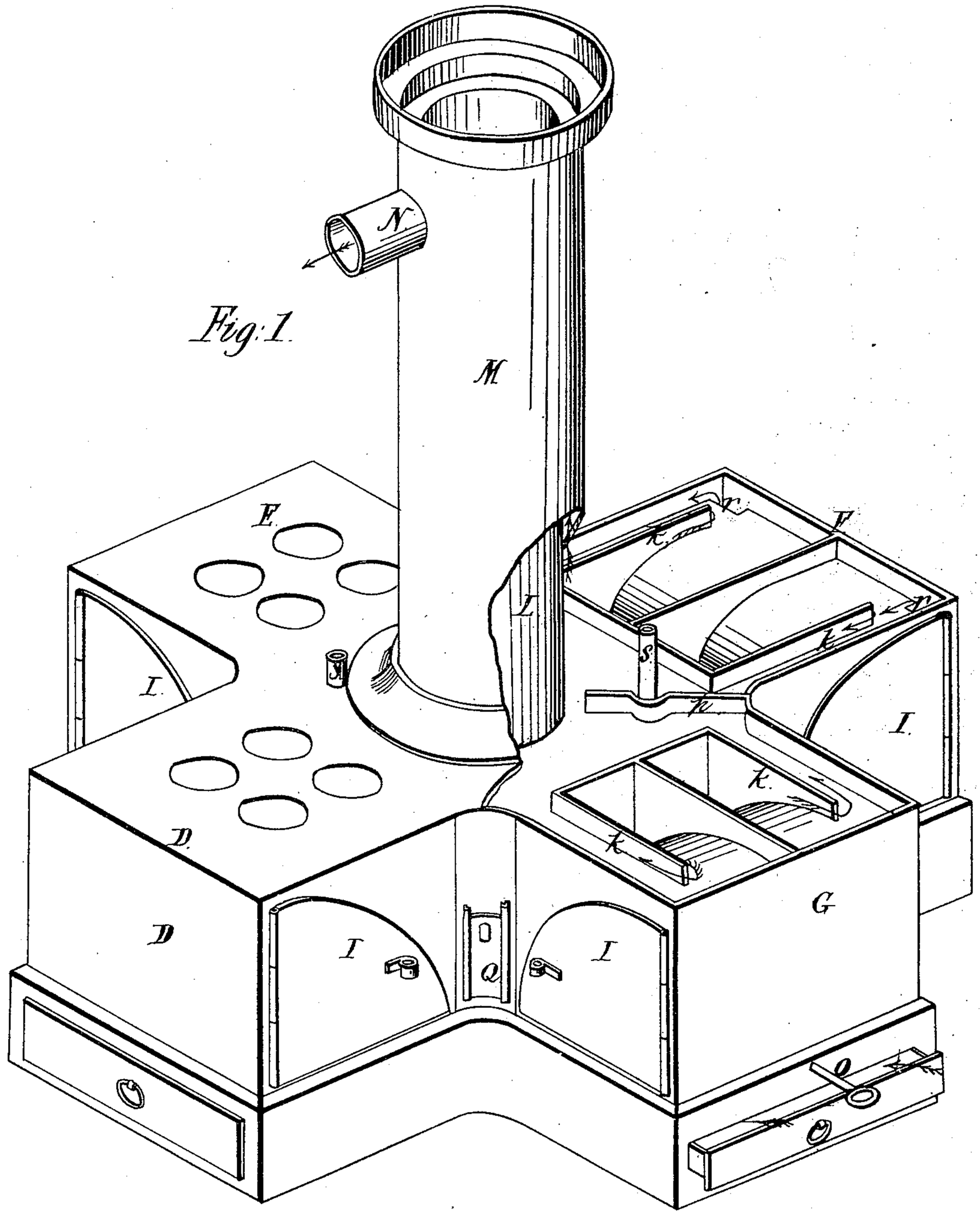
3 Sheets—Sheet 1.

C. RAUB.

COOK STOVE.

No. 19,650. Patented Mar. 16, 1858.

Fig: 1.



3 Sheets—Sheet 2

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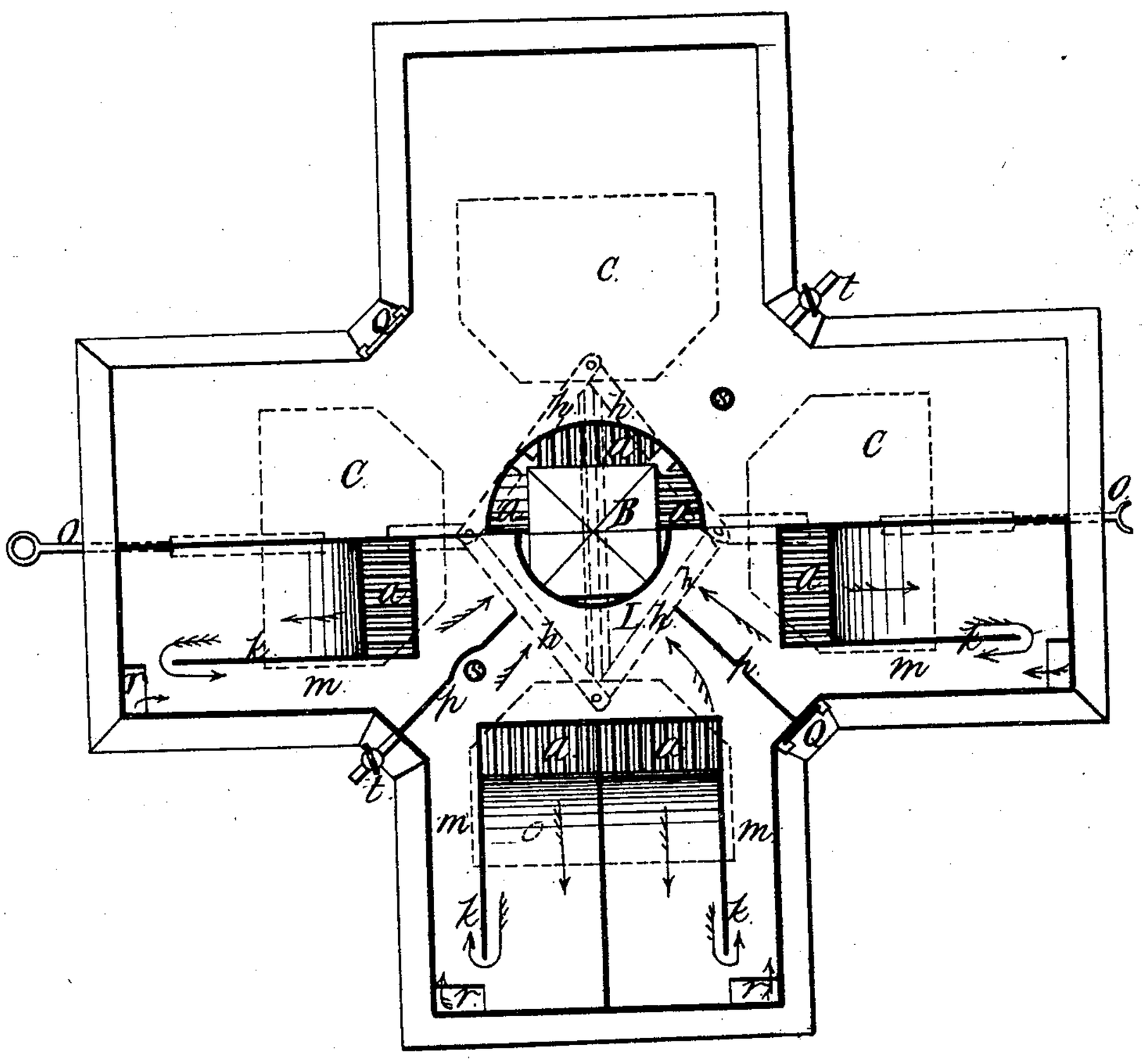
COOK STOVE.

No. 19,650. Patented Mar. 16, 1858.

Fig: 2.



3 Sheets—Sheet 3.

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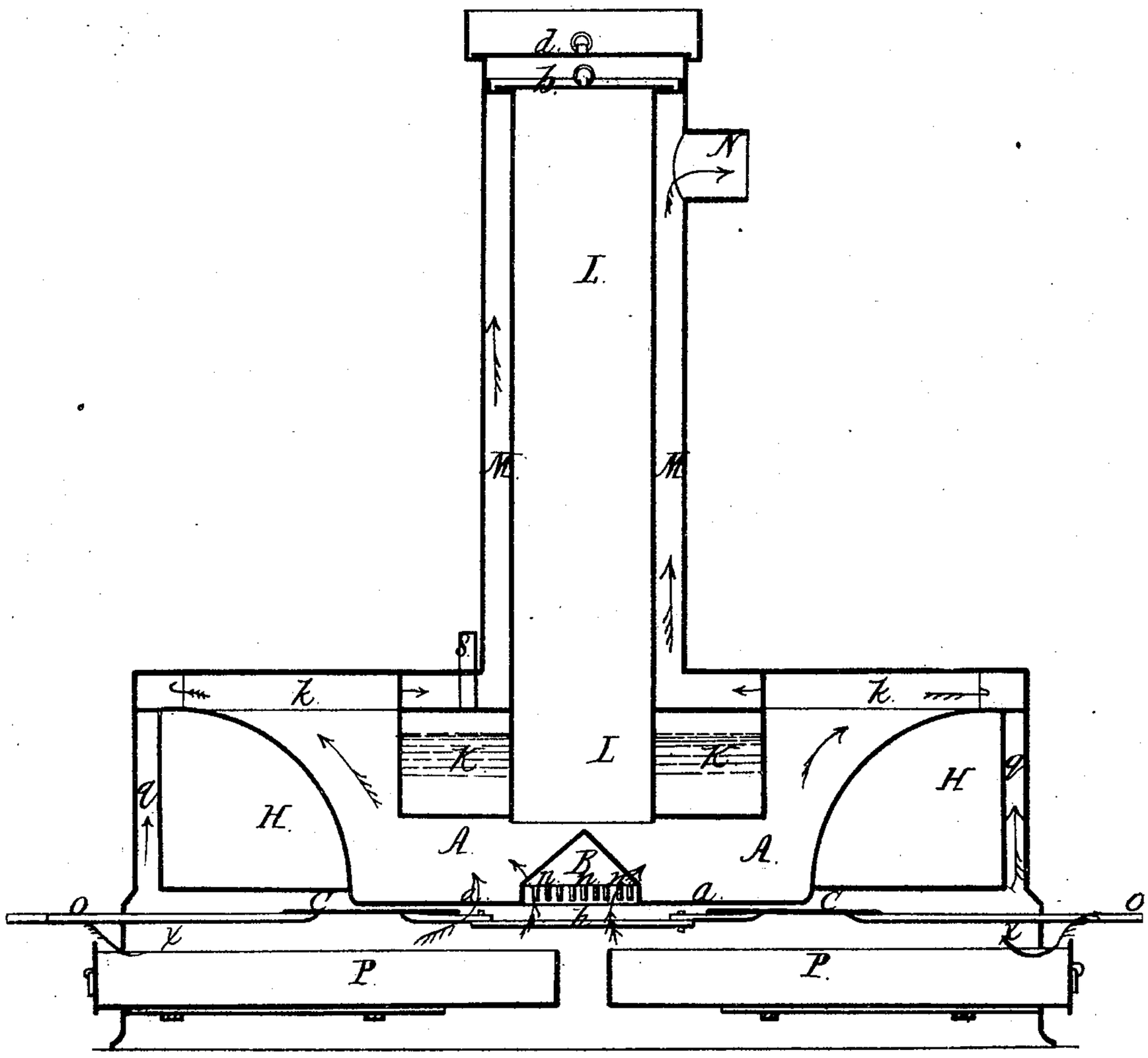
Fig: 3.



UNITED STATES PATENT OFFICE.

CHRISTIAN RAUB, OF DAVENPORT, IOWA.

COOKING-STOVE.

Specification of Letters Patent No. 19,650, dated March 16, 1858.

To all whom it may concern:

Be it known that I, CHRISTIAN RAUB, of Davenport, in the county of Scott and State of Iowa, have invented certain new and useful Improvements in Cooking-Stoves; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, in which—

Figure 1 represents a perspective view of said stove with a portion represented as broken away to show the interior. Fig. 2 represents partly a top view and partly a horizontal section through said stove. Fig. 3, represents a longitudinal vertical section through the same.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

In Fig. 3, A, represents the fire chamber of the stove. *a*, represents the grate which supports the fuel, and from the center of which rises a cone or pyramid B, the object of which will be described below; D, E, F, G, represent four separate cooking stoves, which are heated simultaneously by the fire in the fire chamber A, and each of these stoves is provided with an oven H, the doors of which are represented at I, Fig. 1. K, represents a water chamber through the center of which passes the stack L, through which the fuel is fed into the stove. M, represents the smoke stack and N, the pipe for the escape of the smoke; *b* and *d*, represent covers for closing the stacks L and M; the draft of air through the grates *a*, can be regulated by means of the sliding dampers C, one of which is applied under the grate of each stove; these dampers are connected together by means of links *h*, in such a manner that when one of them is drawn out or shoved in by taking hold of handle O, the other three move simultaneously in the same direction. P, represents the ash boxes through the doors of which the air enters which keeps up the combustion of the fire.

The operation of this stove is as follows:—The kindling material is entered into the stove through the apertures which are represented in the drawings as being closed by the doors Q; it is placed at various points of the grate *a*. The covers *b*, and *d*, are then removed and the coal is fed into the stove through stack L, and as it drops down it is deflected by the oblique sides of the pyramid B, and is thus spread over the entire surface of the grates *a;* the fuel is then ignited through the door Q, which is then closed. The air enters the stove as indicated by arrows *x* and passes up between the grate bars *a*, and through the apertures *n*, of pyramid B, and as the stack L, is partly filled with coal, it cannot escape through the same, but passes through the fire chamber A, in the direction of the arrows around the partitions *k*, into the space *m*, thence into the smoke stack M, and finally escapes through flue N. The smoke and gases of each stove are kept separate up to the point of their passing in to the stack M, by the partitions *p*, and by this arrangement do not interfere with each other while the currents are also contracted by reason of the oblique positions of said partitions thereby increasing the draft. At the same time another current of air passes up flue *q*, as represented by the arrows; this is divided into two contracted currents, which escape through the apertures *r*, and thereby increase the draft. The water chamber K, having previously been filled through pipes S, the water therein is heated and can be drawn off for use by means of the cocks *t*.

Having thus fully described the nature of my invention, I would state that Letters Patent were granted to me on the 20th October 1857, on a stove in which I have claimed the combination of the feeding stack with the spreading cone and the simultaneously acting dampers. I therefore do not lay any claim to these here, but

What I do claim, and desire to secure by Letters Patent is—

The arrangement herein described of the series of stoves fed by one central stack and provided with one central smoke stack, and a central water boiler, substantially in the manner and for the purpose set forth.

CHRISTIAN RAUB.

Witnesses:
W. V. SCHWACK,
BL. PETERS.