

S. W. POLAND.
Vapor Escape Attachment for Cooking Apparatus.
No. 201,943. Patented April 2, 1878.

Fig. 1.

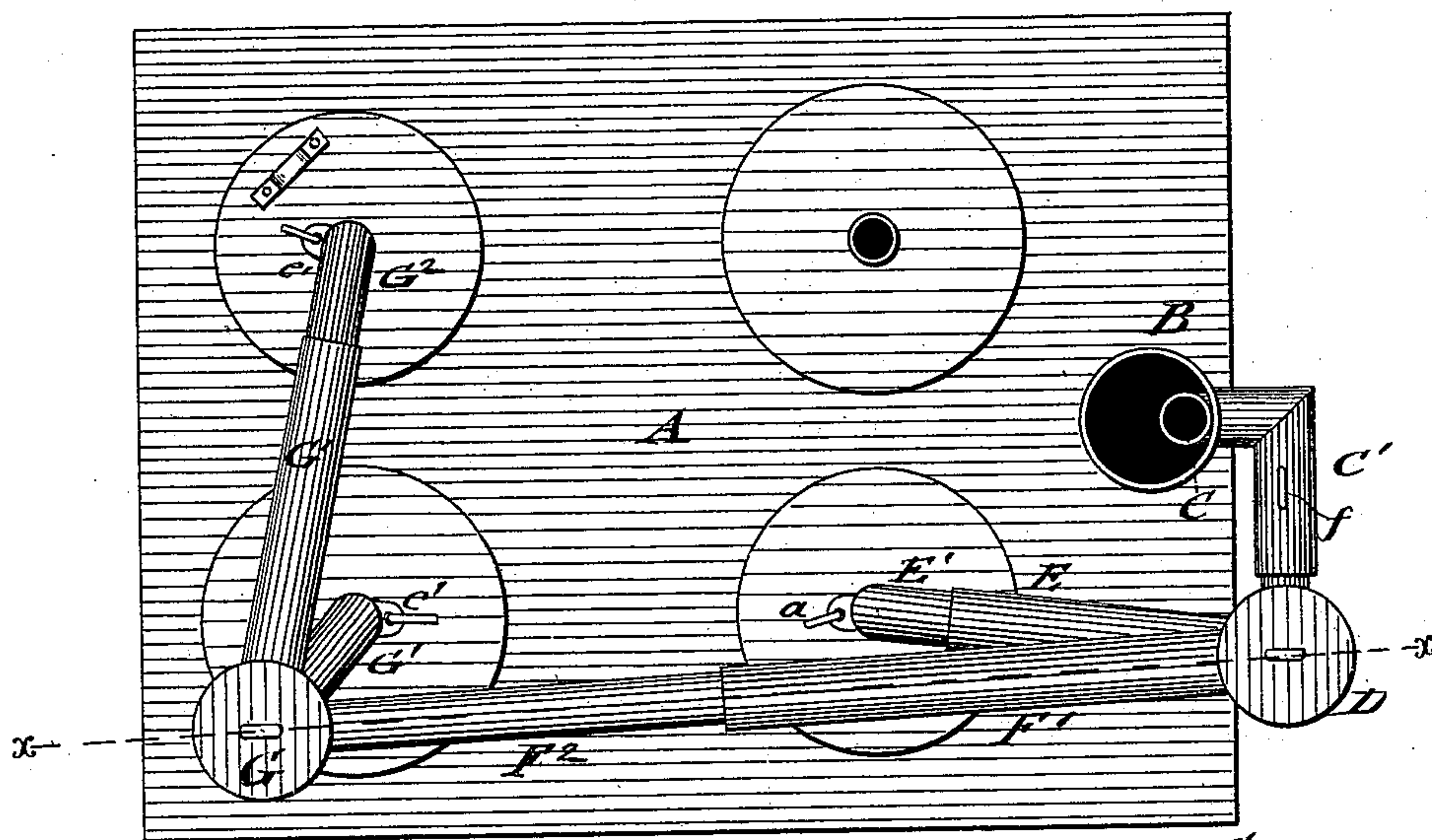
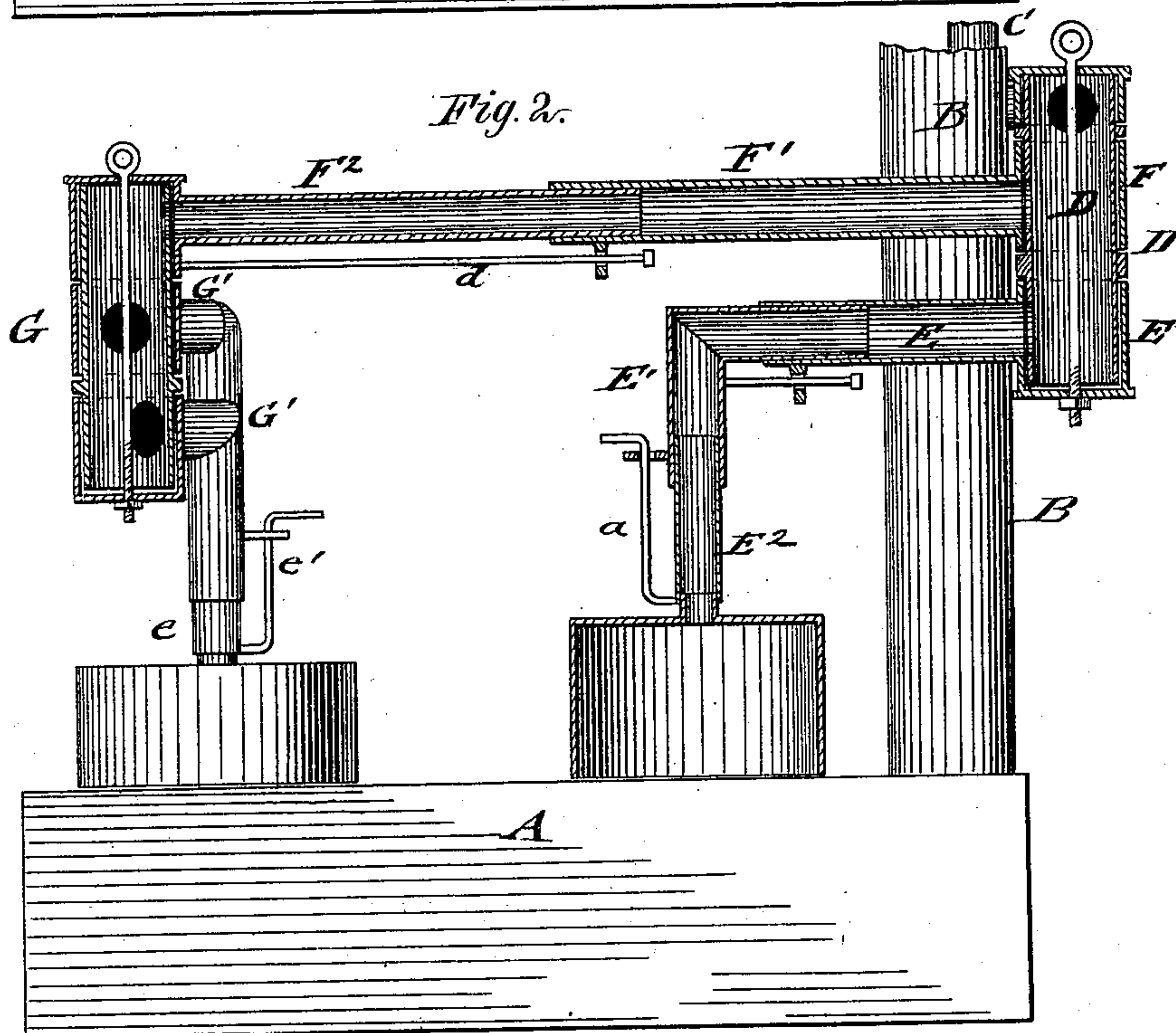


Fig. 2.



WITNESSES:

Henry N. Miller
C. Sedgwick

INVENTOR:

S. W. Poland
BY *Munn & Co.*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

SAMUEL W. POLAND, OF MONSON, MASSACHUSETTS.

IMPROVEMENT IN VAPOR-ESCAPE ATTACHMENTS FOR COOKING APPARATUS.

Specification forming part of Letters Patent No. **201,943**, dated April 2, 1878; application filed February 25, 1878.

To all whom it may concern:

Be it known that I, SAMUEL W. POLAND, of Monson, in the county of Hampden and State of Massachusetts, have invented a new and Improved Vapor-Escape Attachment to Cooking Apparatus, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a top view of my improved vapor-escape attachment to cooking apparatus; and Fig. 2 is a vertical longitudinal section of the same, taken on line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to provide an improved attachment for cooking apparatus of all kinds, by which the steam and odor arising from the meat, vegetables, &c., may be conducted off from the room in which they are cooked to the chimney, and thereby all parts of the house kept free from all obnoxious smells and vapors.

The attachment may be readily carried out of the way, and attached readily either to one, two, or more kettles or pots, according to the number of kettles on the stove.

The invention consists of jointed and adjustable escape-pipes, which are connected by swinging horizontal portions to intermediate steam drums or boxes, and, finally, to an exit-pipe of the smoke-pipe. The lower ends of the escape-pipes are readily adjusted by sliding tubes with handles to short center-tubes of the lids of the kettles or pots, and the entire attachment supported on a fixed drum of the stove-pipe, so that the escape-pipes may be swung out of the way and conveniently handled.

In the drawing, A represents a range, stove, or other cooking apparatus, and B the stove-pipe of the same, which is provided at suitable height above the range with an interior exit steam-pipe, C, that communicates with a rigid horizontal elbow, C', from which is suspended a steam drum or box, D. To the lower part of the box D, and connected thereto by a center-bolt, is applied a closed sleeve with horizontal pipe E, that extends, by a sliding and guided elbow-pipe, E¹, at the outer end down to the lid of the kettle near the stove-pipe. The length of the vertical portion of el-

bow-pipe E¹ is adjustable by a sliding pipe, E², at the lower end, that fits on a short center-tube of the lid of the kettle, and is raised or lowered by a suitable handle, *a*. At the middle portion of the drum D is arranged a second sleeve-shaped tube, F, with fixed horizontal pipe F¹, in which a horizontal tube, F², of a second steam drum or box, G, slides, the tube F² being guided and supported on tube F¹ by horizontal rod and guide-staple *d*. To the steam-drum G are applied, in similar manner as to the first box D, two or more swinging tubes, G¹, that radiate therefrom, and which are supported thereon by a central fastening-bolt in analogous manner as in the first drum. From the longer or shorter swinging tubes G¹ of the second drum G extend in downward direction the elbow-shaped pipes G², that slide by their horizontal portions in the horizontal pipes G, and are guided thereon by guide-rod and staple in the same manner as the slide-tube of the second drum in the horizontal supporting-pipe of the first drum. The lower ends of these sliding elbows G² are also provided with short sliding tubes *e*, that are raised or lowered by handles *e'*, so as to be readily seated on or removed from the center tubes on the lids of the kettle.

The number of conduit or escape tubes is in proportion to the size of the range or other cooking apparatus, and to the number of cooking vessels used thereon, so that a sufficient number is provided to supply all the vessels used for cooking, and conduct thereby all the obnoxious vapors and smells into the chimney, without annoyance to the remaining part of the house.

Whenever any one of the kettles is desired to be removed or inspected, the short lower slide-tube is raised and the escape-tube swung out of the way, the same being instantly replaced when the cooking-vessel is put again in position on the range.

The drums have openings that register with the escape-pipes when they are in position on the kettles, but shut off the connection as soon as they are removed therefrom.

By the conduit-pipes one or more kettles may be connected to the stove-pipe, as desired, as they are readily applied to, and, if desired, entirely shut off by, a damper, *f*, at the fixed

elbow C' of the stove-pipe B, which shuts off the connection of all the escape-pipes with the chimney.

In this manner a practical and readily-operated attachment for cooking apparatus of all kinds is furnished, by which the room or rooms may be kept entirely free of all vapors and smells, and the cooking be made less annoying and offensive to housekeepers and cooks.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination, with the lids of the cooking-vessels, of horizontally and vertically adjustable escape-pipes, swinging on intermediate steam-drums connected to stove-pipe, the escape-pipes being supported so as to be readily adjusted to one or more cooking-vessels or swung out of the way, substantially as and for the purpose set forth.

SAMUEL W. POLAND.

Witnesses:

H. H. WEEDEN,
S. S. TAFT.