

No. 755,486.

PATENTED MAR. 22, 1904.

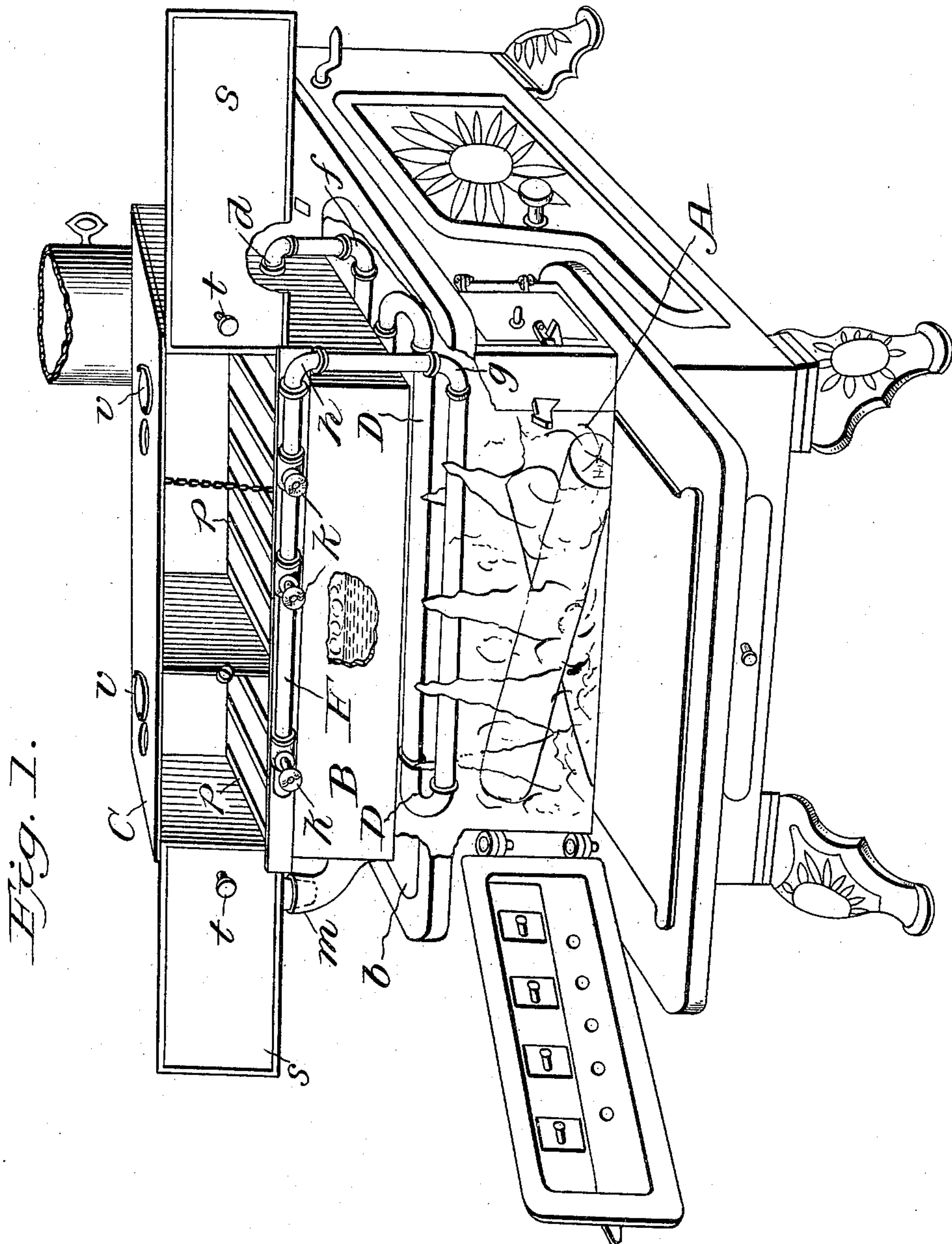
D. HARRINGTON.

APPARATUS FOR COOKING BY SUPERHEATED STEAM.

APPLICATION FILED NOV. 16, 1903.

NO MODEL.

2 SHEETS—SHEET 1.



WITNESSES:

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J. W. Moore.

INVENTOR

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2 SHEETS—SHEET 2.

Fig. 2.

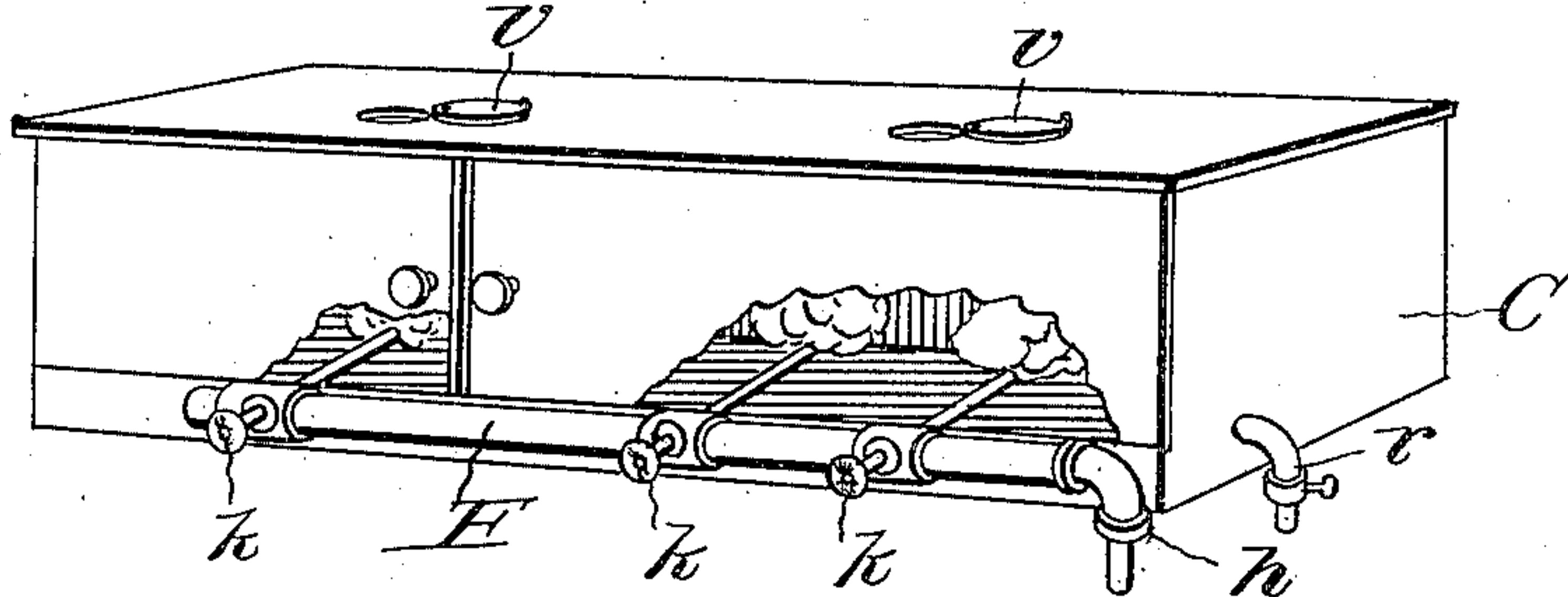


Fig. 3.

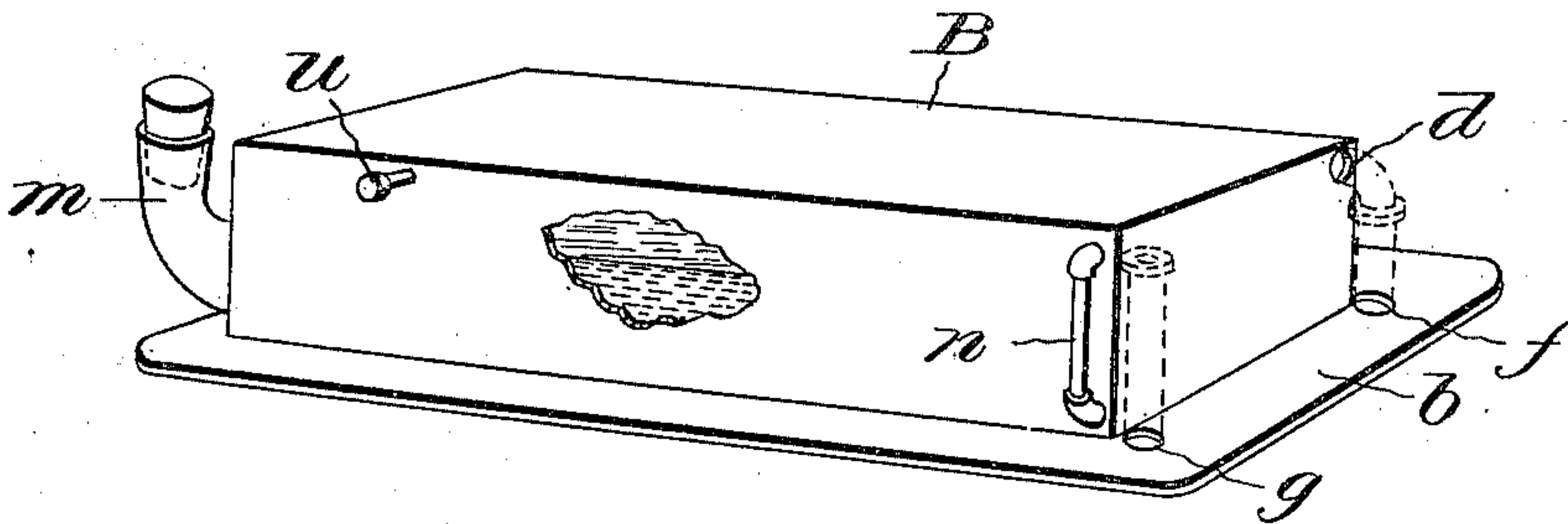
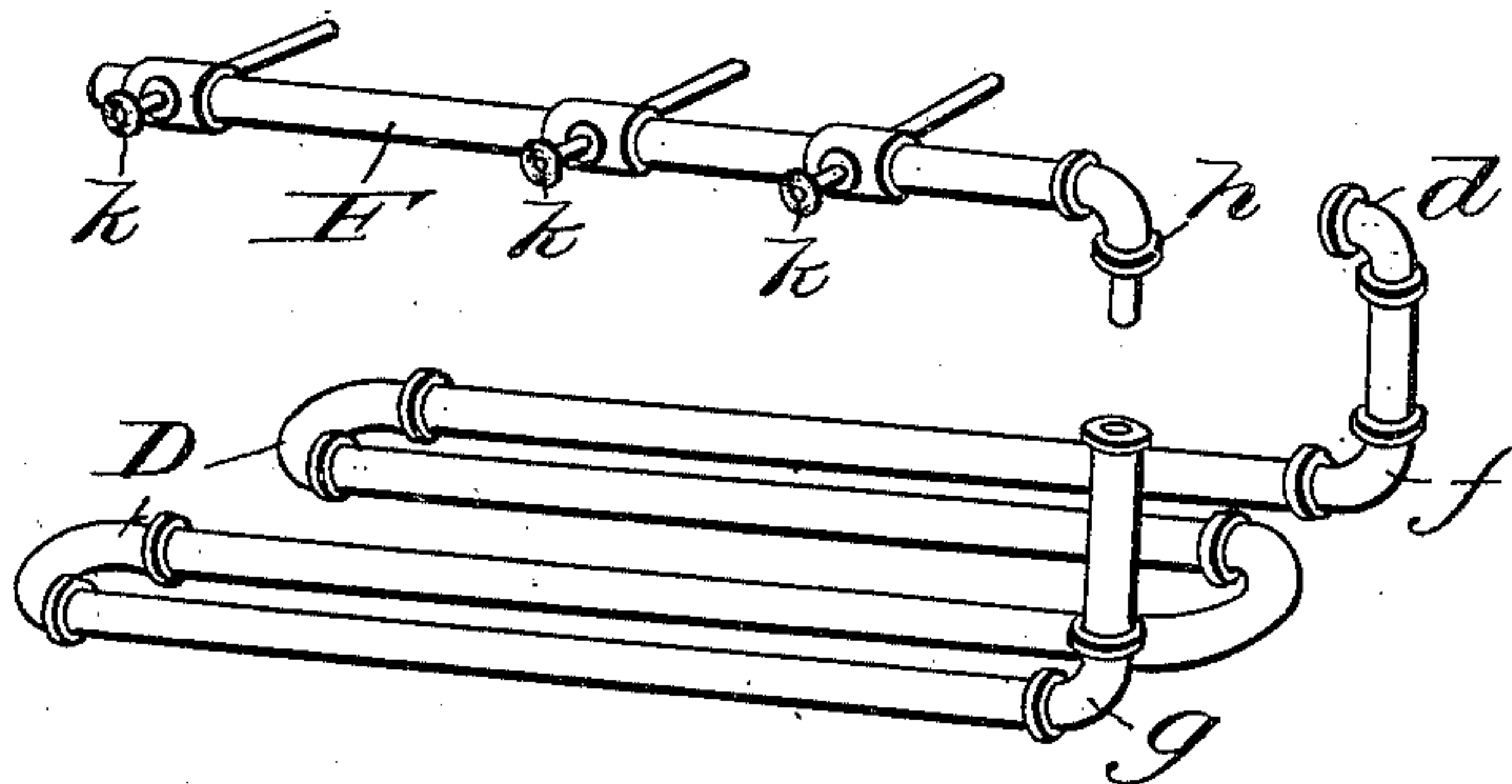


Fig. 4.



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UNITED STATES PATENT OFFICE.

DAVID HARRINGTON, OF DALLAS, TEXAS, ASSIGNOR OF ONE-HALF TO
FINIS E. LAUGHLIN, OF DALLAS, TEXAS.

APPARATUS FOR COOKING BY SUPERHEATED STEAM.

SPECIFICATION forming part of Letters Patent No. 755,486, dated March 22, 1904.

Application filed November 16, 1903. Serial No. 181,293. (No model.)

To all whom it may concern:

Be it known that I, DAVID HARRINGTON, a citizen of the United States, residing at Dallas, Texas, have invented certain new and useful Improvements in Apparatus for Cooking by Superheated Steam, of which the following is a specification.

My invention relates to means for cooking, and more particularly to means for cooking by superheated steam; and the object is to provide appliances which may be utilized on or attached to any ordinary stove, range, or furnace which may be already in use or hereinafter put in use and which can be attached to any stove, range, or furnace of special make. Stoves, ranges, or furnaces of any size may be equipped with the improved superheating attachments. The superheating of the steam is accomplished automatically as the steam is produced. One object is to arrange the attachments so that one fire-box or furnace will produce the heat for boiling the water to produce the steam and to superheat the steam. These attachments may be applied to stoves or ranges used by private families as well as to stoves, ranges, or furnaces in use in restaurants, hotels, and other places for the public. Other objects and advantages will be fully explained in the following description, and the invention will be more particularly pointed out in the claims.

Reference is had to the accompanying drawings, which form a part of this application and specification.

Figure 1 is a perspective view of a stove, the fire-box door and the oven-door being opened and the boiler being broken to show the arrangement of the steam-circulating pipes. Fig. 2 is a broken perspective view of the cooking-oven, illustrating the manner of projecting steam into the oven. Fig. 3 is a broken view of the boiler. Fig. 4 is a perspective view of the pipes for circulating the steam through the fire-box and delivering the same to the oven.

Similar characters of reference are used to indicate the same parts throughout the several views.

The stove shown in the drawings illustrates

one way of attaching the steam-superheating apparatus.

A indicates the fire-box, which may be heated by any convenient mode of heating, as by wood, coal, oil, or gas.

B indicates the boiler, which is preferably arranged above the fire-box.

C indicates an oven, which is arranged above the boiler.

The boiler B is provided with a flange *b* on the base thereof, which covers the opening in the top of the fire-box and also provides a convenient manner of passing the steam-pipes to and from the fire-box.

D indicates the steam-pipe, which is connected to the top or upper part of the boiler at *d* and enters the fire-box at *f*. From *f* the pipe circulates back and forth in the upper part of the fire-box and passes out of the fire-box at *g*. This pipe may be passed back and forth in and about the fire-box as many times as may be necessary to acquire the desired degree of heat. A pipe *F* is connected to the pipe *D* by a suitable union *h* and is then projected or placed by or on the oven *C* and provided with a number of valves *k*, as many valves being employed as there are compartments in the oven, for conveying the superheated steam to the oven.

The boiler is provided with a spout *m* for convenience in filling the boiler with water.

The boiler is provided with a water-gage *n*.

The oven *C* is provided with suitable ribs *p* on the bottom thereof for convenience in placing articles to be cooked. The oven is also provided with a drip-pipe *r* for drawing off juices or other matter from the oven.

The oven is provided with sliding doors *s*, which are provided with knobs *t*. The oven is also provided with ventilators *v* for use in baking. The boiler is provided with a safety-valve *u*.

The operation is simple. The water is poured into the boiler through the spout *m* until a sufficient quantity is secured. The spout is then closed. The fire-box is then heated and the articles to be cooked are placed in the oven. The steam passes from the

boiler through the pipe D and circulates through the fire-box, where it is heated and superheated, and then passes to the oven through pipe F, whence it may be turned into
5 any one or all of the compartments of the oven through the valves *k*. The amount of steam to be turned into any compartment of the oven may be regulated by its valve.

Various changes may be made in the construction and arrangement of the superheating-pipes and the other elements of the combination shown without departing from my invention.
10

Having fully described my invention, what
15 I claim as new, and desire to secure by Letters Patent, is—

1. An apparatus of the character described having a fire-box, a boiler supported on said fire-box, an oven mounted on said boiler and
20 provided with a plurality of compartments, and a pipe connected to said boiler and circu-

lated through said fire-box and extending up to said oven for supplying the compartment of said oven with superheated steam.

2. An apparatus of the character described 25 having a fire-box, a boiler supported on said fire-box, an oven mounted on said boiler and provided with a plurality of compartments and ventilators and a drip-pipe, and a pipe connected to said boiler and circulated through 30 said fire-box and extended up to said oven and provided with a plurality of valves for supplying the compartments of said oven with superheated steam.

In testimony whereof I set my hand, in the 35 presence of two witnesses, this 3d day of November, 1903.

DAVID HARRINGTON.

Witnesses:

F. E. LAUGHLIN,
A. L. JACKSON.