

(No Model.)

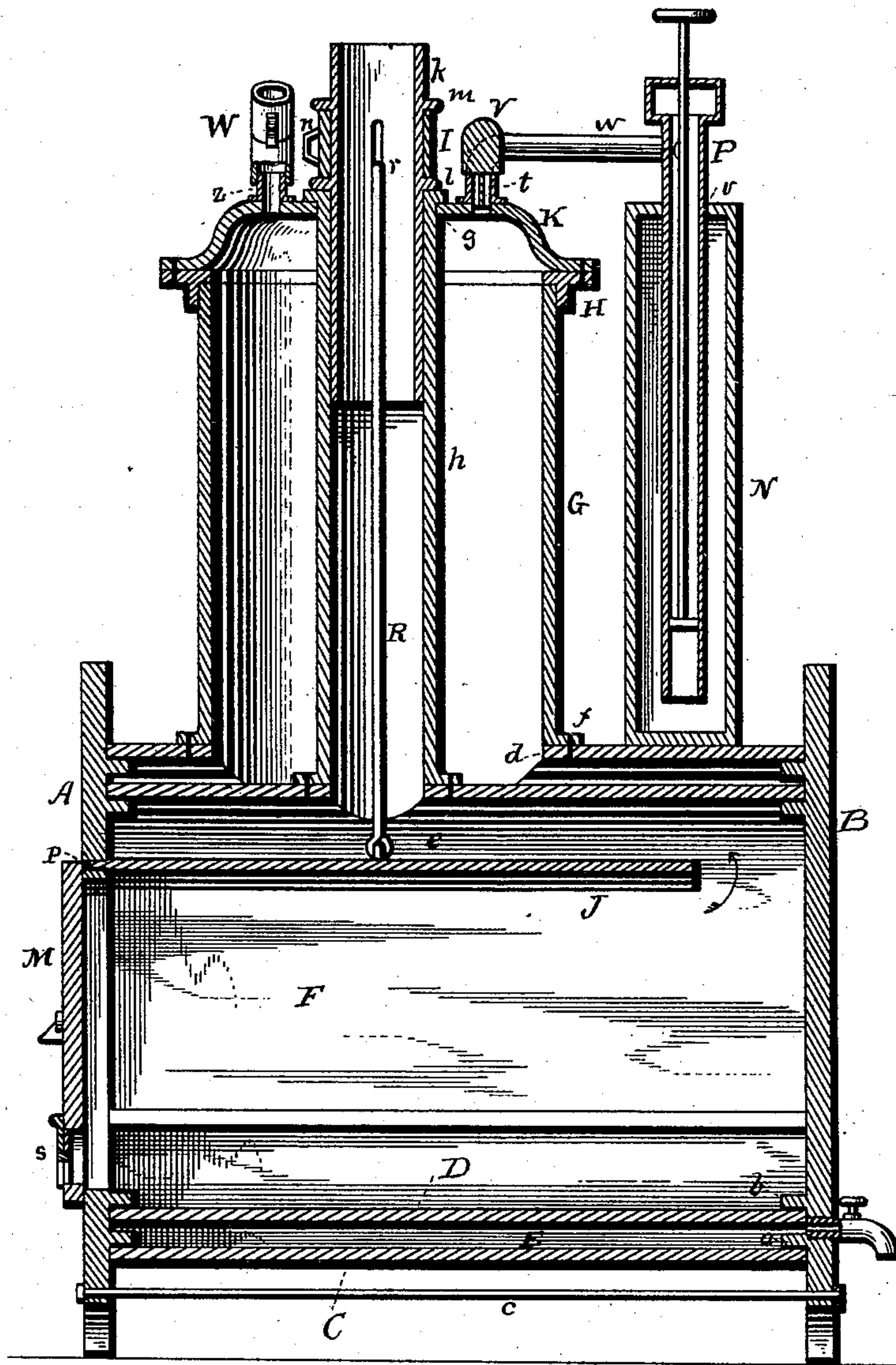
W. W. YOKOM.

2 Sheets—Sheet 1.

FEED COOKING DEVICE.

No. 368,866.

Patented Aug. 23, 1887.



*Fig. 1*

WITNESSES

*B. Fugitt.*  
*P. L. Kasi.*

INVENTOR

*W. W. Yokom,*  
by *E. W. Anderson,*  
*his Attorney*

(No Model.)

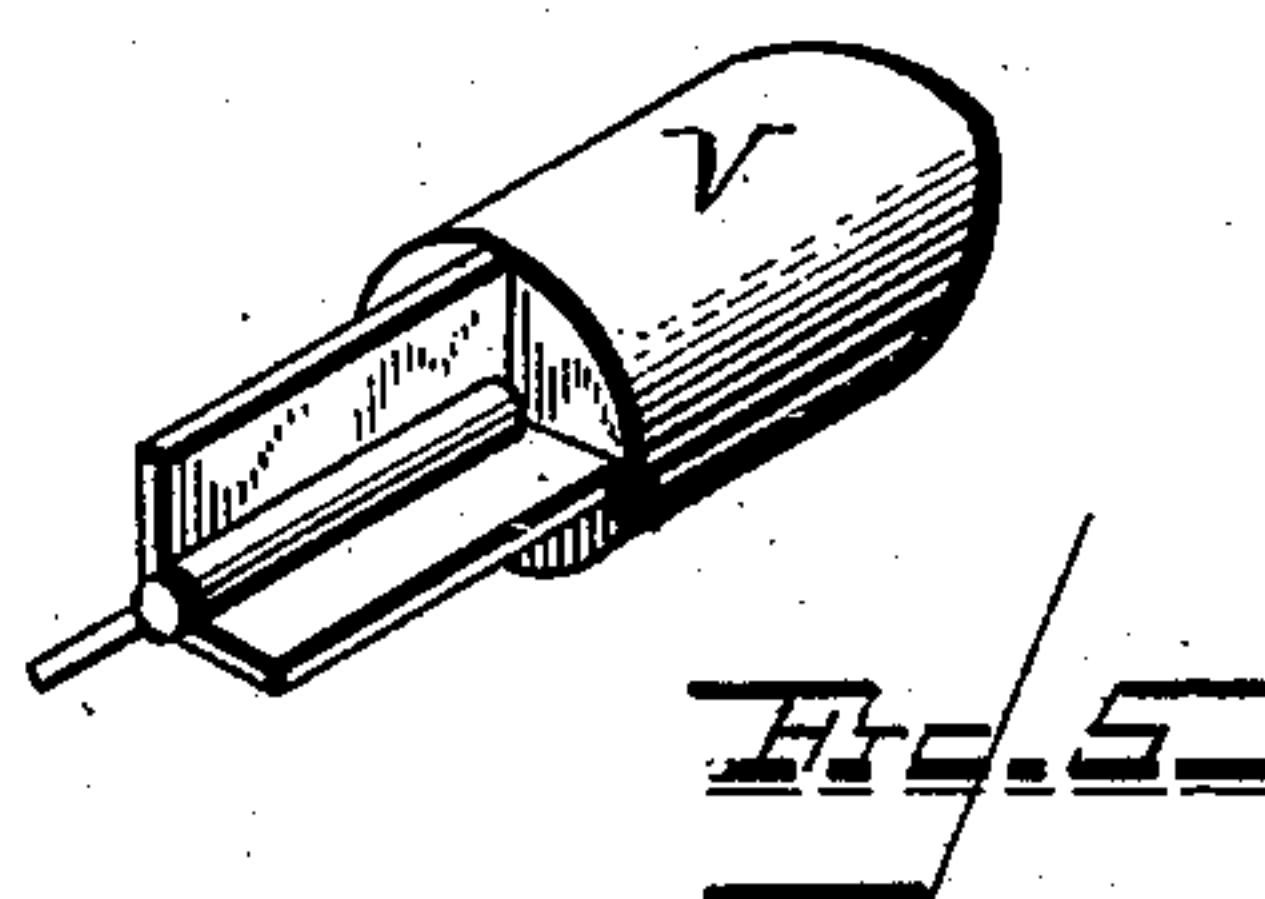
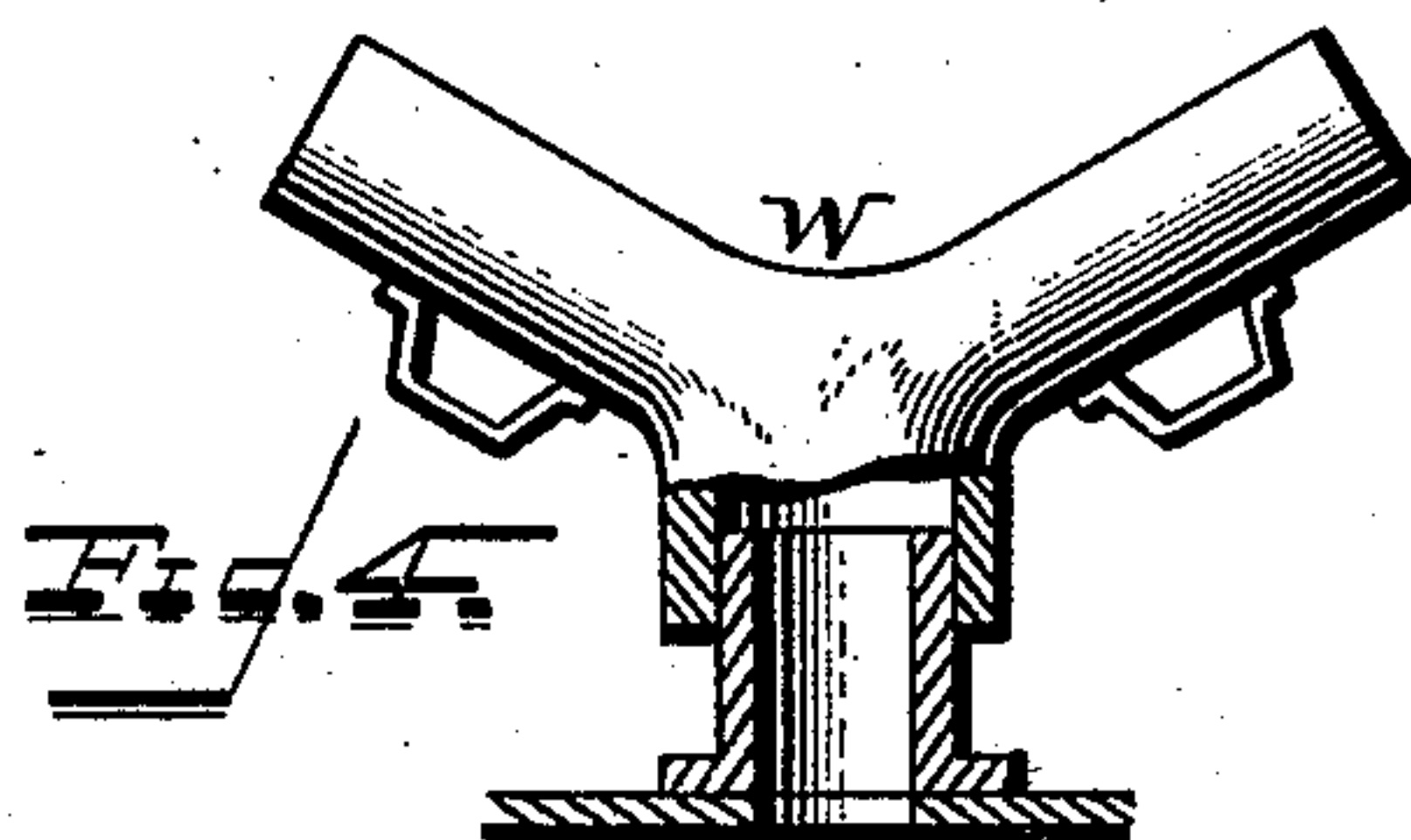
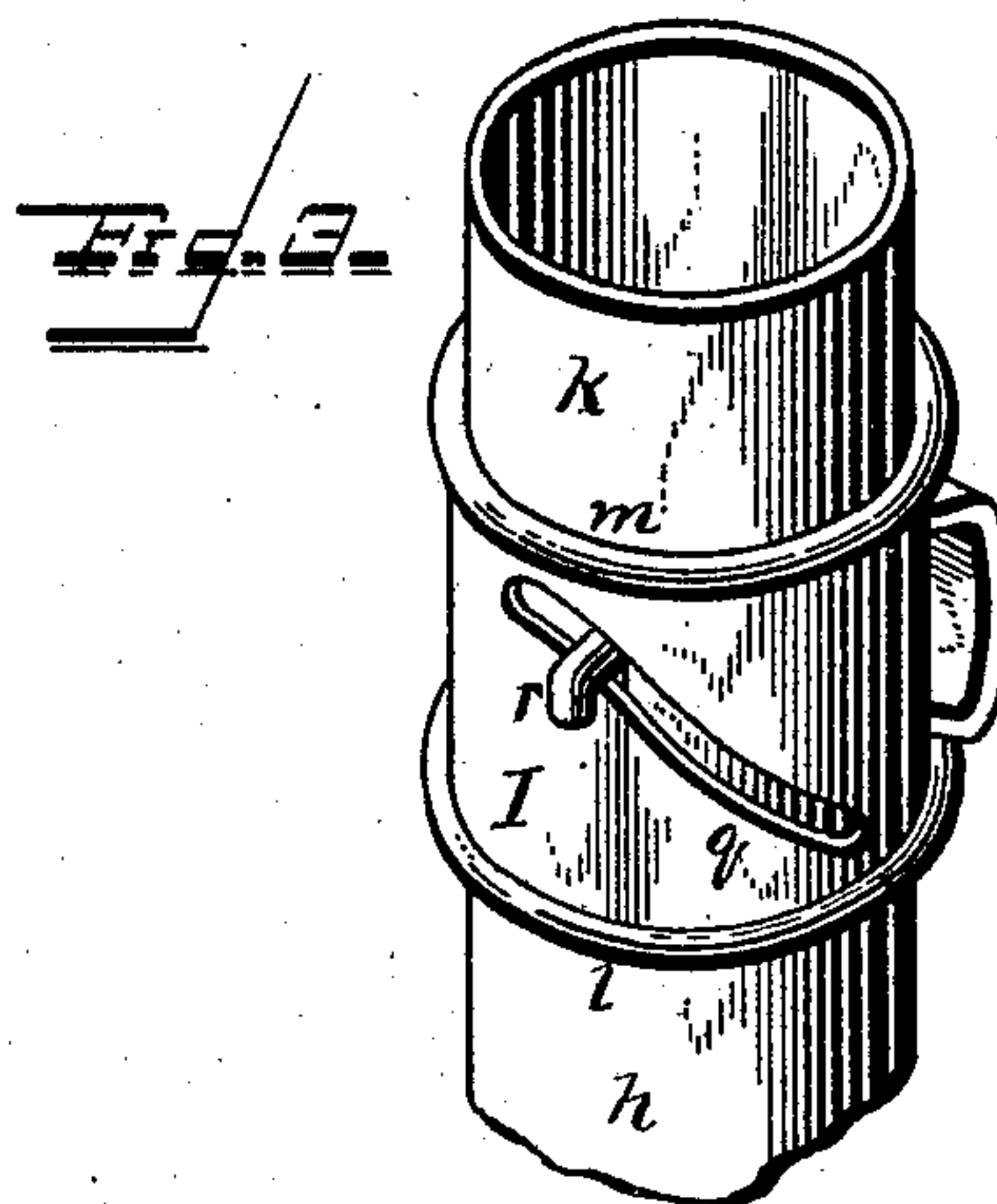
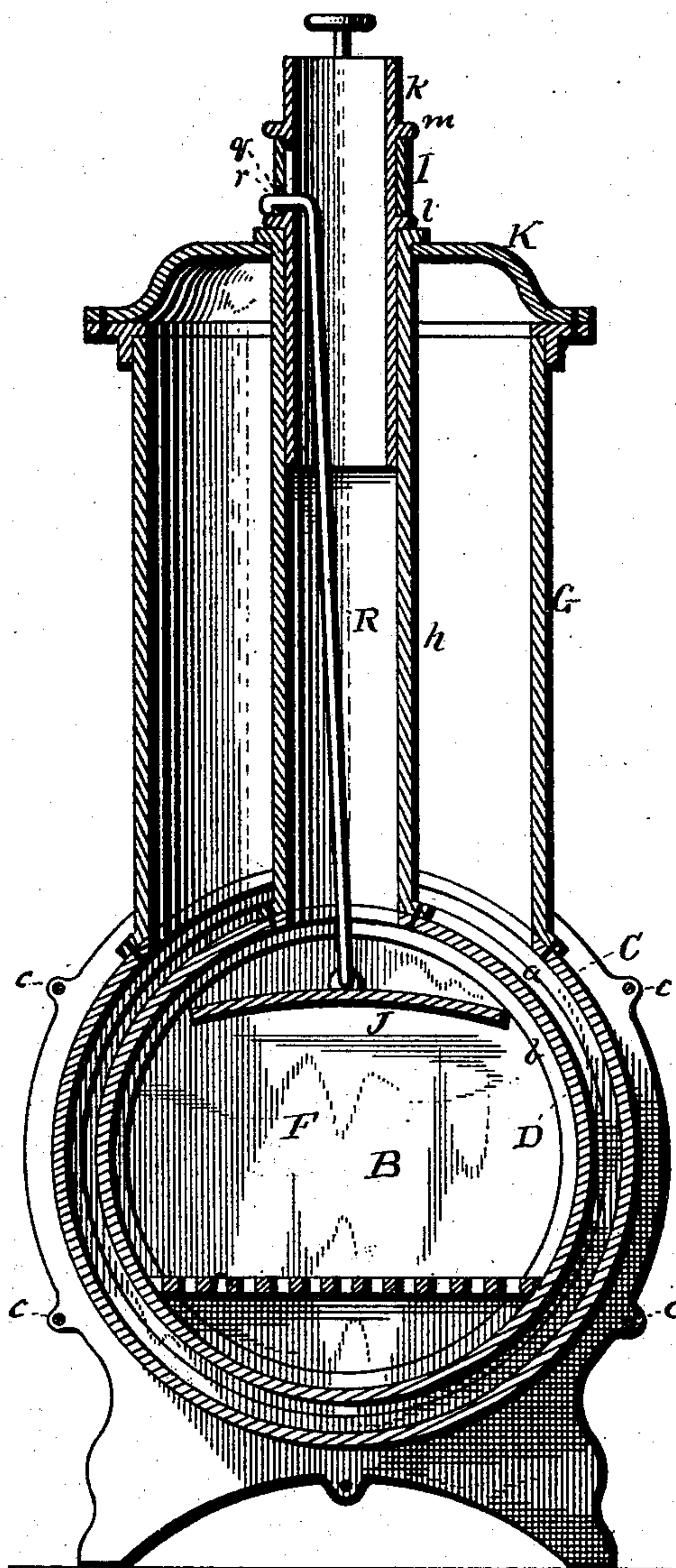
2 Sheets—Sheet 2.

W. W. YOKOM.  
FEED COOKING DEVICE.

No. 368,866.

Patented Aug. 23, 1887.

Fig. 2.



WITNESSES

B. Fugitt.  
P. H. Hasi.

INVENTOR

W. W. Yokom.

by

E. W. Anderson,  
his Attorney



# UNITED STATES PATENT OFFICE.

WILFORD W. YOKOM, OF NEW HARTFORD, IOWA, ASSIGNOR OF ONE-HALF  
TO GEORGE B. HAMM, OF SAME PLACE.

## FEED-COOKING DEVICE.

SPECIFICATION forming part of Letters Patent No. 368,866, dated August 23, 1887.

Application filed April 23, 1887. Serial No. 235,893. (No model.)

*To all whom it may concern:*

Be it known that I, WILFORD W. YOKOM, a citizen of the United States, residing at New Hartford, in the county of Butler and State of Iowa, have invented certain new and useful Improvements in Feed-Cooking Devices; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a vertical longitudinal section of my invention. Fig. 2 is a transverse section. Fig. 3 is a detail perspective view of turning sleeve I. Fig. 4 is an end view, partly in section, of the two-way cock. Fig. 5 is a detail perspective view of safety-valve.

This invention has relation to steam-generating apparatus for cooking feed; and it consists in the construction and novel combination of parts, as hereinafter set forth.

In the accompanying drawings, the letters A and B indicate, respectively, the front and rear castings, which form the front and rear walls of the boiler and fire-box. These castings are each formed with an outer annular flange, *a*, and an inner annular flange, *b*, which are made a little beveled on their outer faces to give them a "draw" when sheet-iron cylinders C and D are forced therein. The rear casting may be made in annular form and provided with a separate plate bolted to such annular casting. The outer cylinder, C, is forced over the flanges *a* when the heads or castings are set up, and the inner cylinder, D, is forced over the flanges *b*. In this manner a chamber, E, is formed between the cylinders for the water from which the steam is generated by the heat of the fire in the fire-box F, which is the interior of the cylinder D. Bolts *c c* extend longitudinally from head B to head A, and through lugs thereof, and serve to secure the heads firmly pressed upon the ends of the cylinders. The outer cylinder, C, is formed with an opening, *d*, in its top, and the inner cylinder with an opening, *e*, below the said opening *d*. To the opening *d* of the outer cylinder is secured by its flange *f* and suitable

rivets the upright shell G, which is provided with an annular rim-casting, H, at its upper end, to which is riveted the top or dome K of the shell. This dome or top has an opening, *g*, in the center, through which passes upward the smoke flue or pipe *h*, which may be made of gas-pipe. This pipe is secured by riveting the flange at its lower end to the margin of the opening *e* of the inside cylinder, so that it passes up centrally through the shell G. In the upper end of the flue *h* is placed the lower portion of a second section of pipe, *k*, which is beaded at *l* and *m*, and between these beads is located the turning regulator-sleeve I, having the handle *n*.

J is a damper-plate which is placed lengthwise in the upper portion of the inner cylinder, extending from the front head, to which it is connected by a lug, *p*, over the doorway, back part way toward the rear head, B, room being left in rear of its end to allow the flames and products of combustion to pass around said end, and forward to the lower opening of the smoke-flue. The plate J, being pivoted by the lug *p*, is held up in rear by the rod R, which is provided with a hook or bend, *r*, at its upper end, which passes through a vertical slot of the smoke-pipe and upper section, and through an inclined slot, *q*, of the turning sleeve I. When this sleeve is turned, the rod, rising or falling, raises or lowers the damper-plate, and thus regulates the draft.

M is the door of the fire-box, hinged to the casting A, said door having a draft-regulator, *s*.

N is the water-supply tank, which is seated on the top of the outer cylinder in rear of the upright shell. Through an opening, *v*, in its top extends downward the pump-barrel P, which is provided with an elongated spout, *w*, adapted, when turned around in the proper direction, to have its discharge-opening coincide with the opening of the receiving nipple-tube *t*, which is secured to the shell top or dome. The water, being kept warm in this supply-tank, can be discharged into the boiler portion at any time when necessary. At other times the nipple *t* is provided with a safety-valve, V. A second nipple, *z*, is provided with a double faucet-connection, W, from which pipes can be extended to two food-cooking vessels.

Having described this invention, what I

claim, and desire to secure by Letters Patent, is—

1. The steam-generator for feed-boilers, consisting of the heads A and B, having concentric flanges, the outer and inner cylinders, C and D, the concentric shell and smoke-flue, and the damper-plate pivoted in front and having the rear suspending-rod connected to the inclined slot of a turning sleeve on a section of the smoke-flue, substantially as specified.

2. The combination, with the front and rear heads of the concentric cylinders connected to said heads, the vertical shell, its top and nip-

ple-tubes, and the vertical smoke-pipe concentric with said shell, its upper section, and turning sleeve, of the damper-plate and suspending-rod, and the supply-tank on the outer cylinder, having a pump and discharge-tube extending to one of the nipple-tubes of the shell-top, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

WILFORD W. YOKOM.

Witnesses:

GEORGE B. HAMM,

J. A. COUSINS.