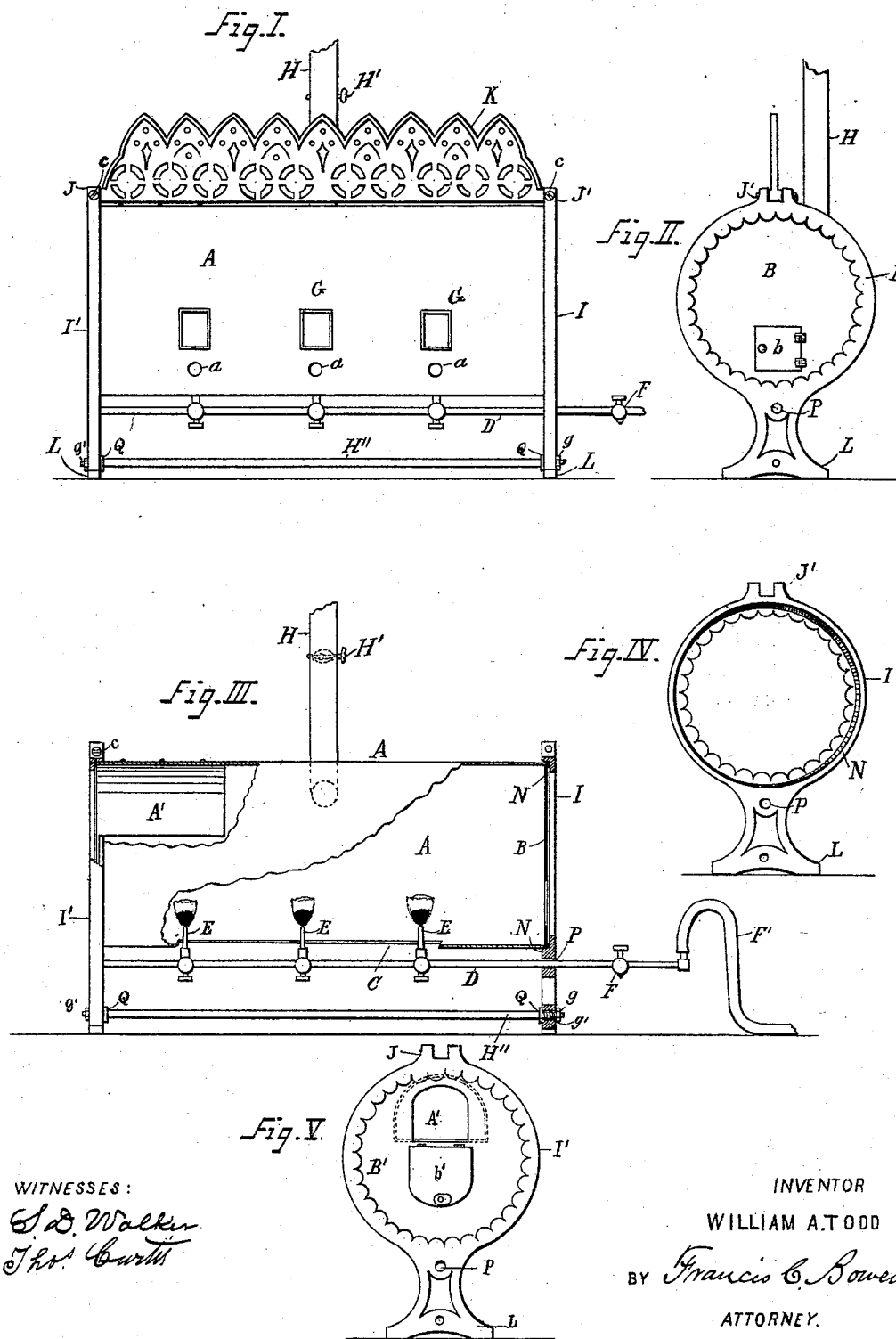


(No Model.)

W. A. TODD.  
GAS STOVE.

No. 530,139.

Patented Dec. 4, 1894.



# UNITED STATES PATENT OFFICE

WILLIAM A. TODD, OF NEW YORK, N. Y.

## GAS-STOVE.

SPECIFICATION forming part of Letters Patent No. 530,139, dated December 4, 1894.

Application filed November 21, 1893. Serial No. 491,551. (No model.)

### *To all whom it may concern:*

Be it known that I, WILLIAM A. TODD, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Gas-Stoves, of which the following is a specification.

My invention relates to a gas stove having its entire drum shape body made of Russia iron and its ends fitted with cast iron end pieces formed with lugs on their tops to receive a connecting plate and supports or legs on their lower parts provided with openings in which a connecting rod is placed to lock the said cast iron end pieces, whereby I obtain an article of superior merit at a low cost of manufacture insuring the maximum amount of heat from a minimum expenditure of fuel, as hereinafter more fully described and illustrated in the accompanying drawings, in which—

Figure 1, represents a side view embodying my invention. Fig. 2, represents an end view thereof. Fig. 3, represents a side view partly in section. Fig. 4, represents an inside view of the end casting. Fig. 5, is an end view showing the secondary chamber.

Similar letters of reference indicate corresponding parts.

The letter A indicates a horizontal drum made of Russia iron which may be of any suitable size and B, indicates the Russia iron disk shaped portions inserted in the ends of the drums by having their edges flanged and riveted to the drum, or secured in any other suitable manner. The lower portion of the drum has an opening C to admit the pipe D and burners E provided with gas cocks one to each burner, so that one or more of the burners may be used as may be desired or when the drum is sufficiently heated one or more of the gas burners may be shut off by means of its respective cock.

The letter F indicates a supply cock in the supply pipe D for turning the gas on or off and which stop pipe may be connected to an ordinary gas burner by a rubber tube F'. The drum A is also provided with openings a opposite each burner for convenience of lighting the same, and to admit of currents of cold air to enter the drum to be heated and G indicates mica plates inserted in suitable

openings G' formed in the side of the drum for adding to its ornamentation as well as to admit of the attendant seeing the burners to regulate the flow of gas therefrom. The drum has an outlet pipe H in its upper portion which may be provided with a damper H'. One of the Russia iron end portions B is provided with a door b for access to the interior of the drum for cleaning or other purposes.

In the drum A, at the proper part thereof, I locate an oven A' which in the present example is placed at one end thereof (Fig. 3) and riveted to the top of the drum. This oven is provided with a door b' opening outwardly from the oven Fig. 5 so access can be had to it without opening the drum A while the inside is constructed so that no dust or smoke from the interior of the drum can enter.

The letters I I' indicate the wreath end plates made of cast iron of any ornamental design and having lugs J J' made integral therewith on their upper parts to receive and hold in place the ends of a casting K by means of bolts c inserted therein. On the lower portions of said wreath-like castings I, I' also formed integral therewith are feet L, L, for supporting the same, while on the interior of the wreath-like castings I, I' is formed a circular recess N, into which the ends of the drum are inserted and firmly held in position. In the cast iron end pieces are two holes one for the pipe D, and the other for the rod H'', to pass through. Each end of the rod H'', is screw threaded and provided with nuts g, and near the ends of the rods are collars Q, all of which serve to lock the parts together.

The letter K indicates the top connecting plate cast flat of any suitable design having a hole o at each end to register with the holes in the lugs of the wreath shaped end plates, so that when the plate K is placed in position it can be easily fastened to the lugs on the end pieces by bolt c passing through the holes o in the connecting plate.

While my invention is particularly adapted for gas, oil may be used with equal advantage if found desirable in which case the pipe D may be connected to a flue of a chimney for the escape of smoke.

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

In a stove, the combination with the drum

A provided with an outlet pipe H, and a supply pipe, of the cast-iron wreath heads I and I' provided with an annular recess N adapted to receive the ends of a drum A, the perforated lugs C at the top of said heads adapted to receive the plate K and the rod Q passing through suitable openings in the heads below

the drum A, for holding the parts together, substantially as described.

WILLIAM A. TODD.

Witnesses:

A. C. TODD,

FRANCIS C. BOWEN.