

No. 749,769.

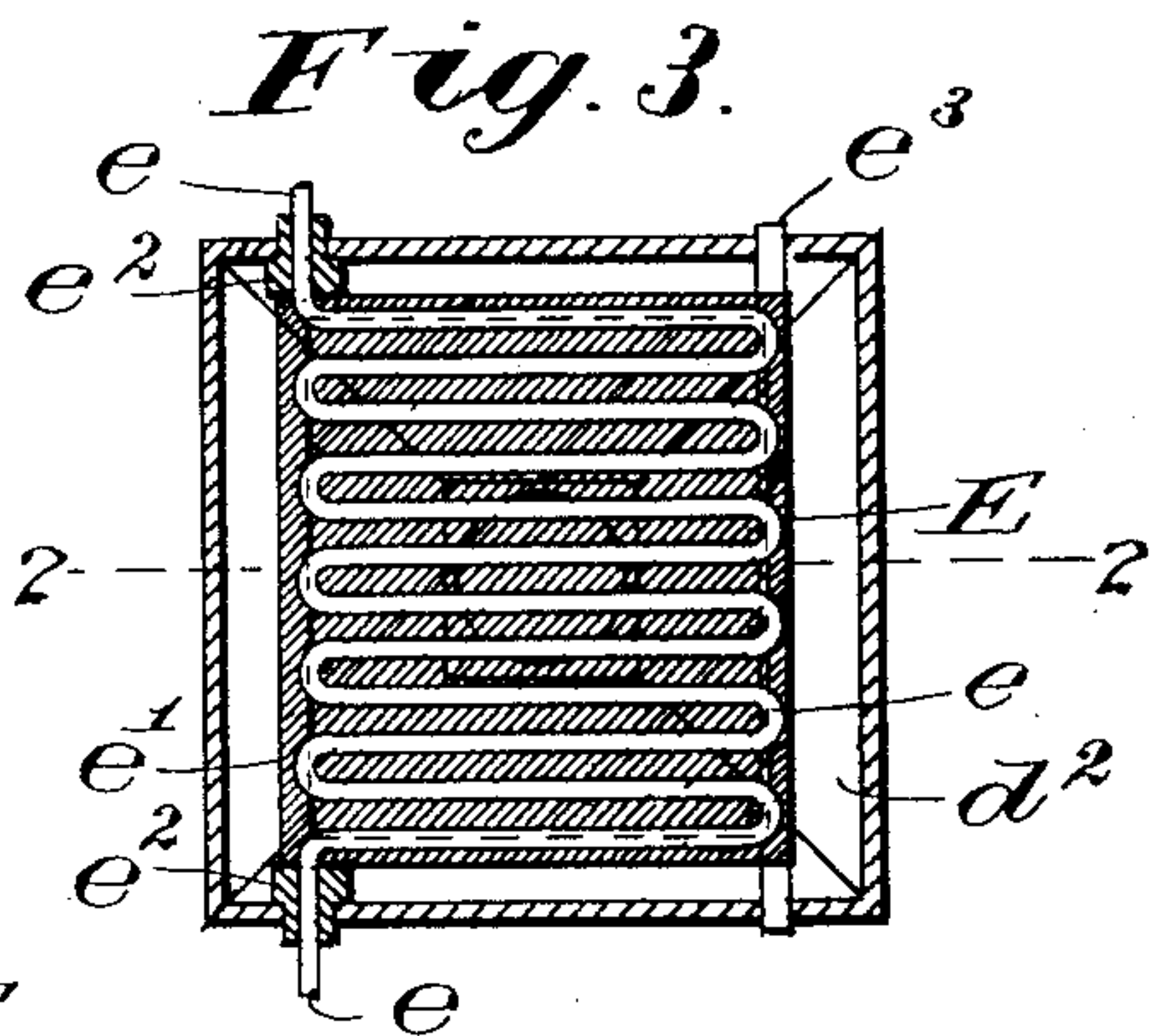
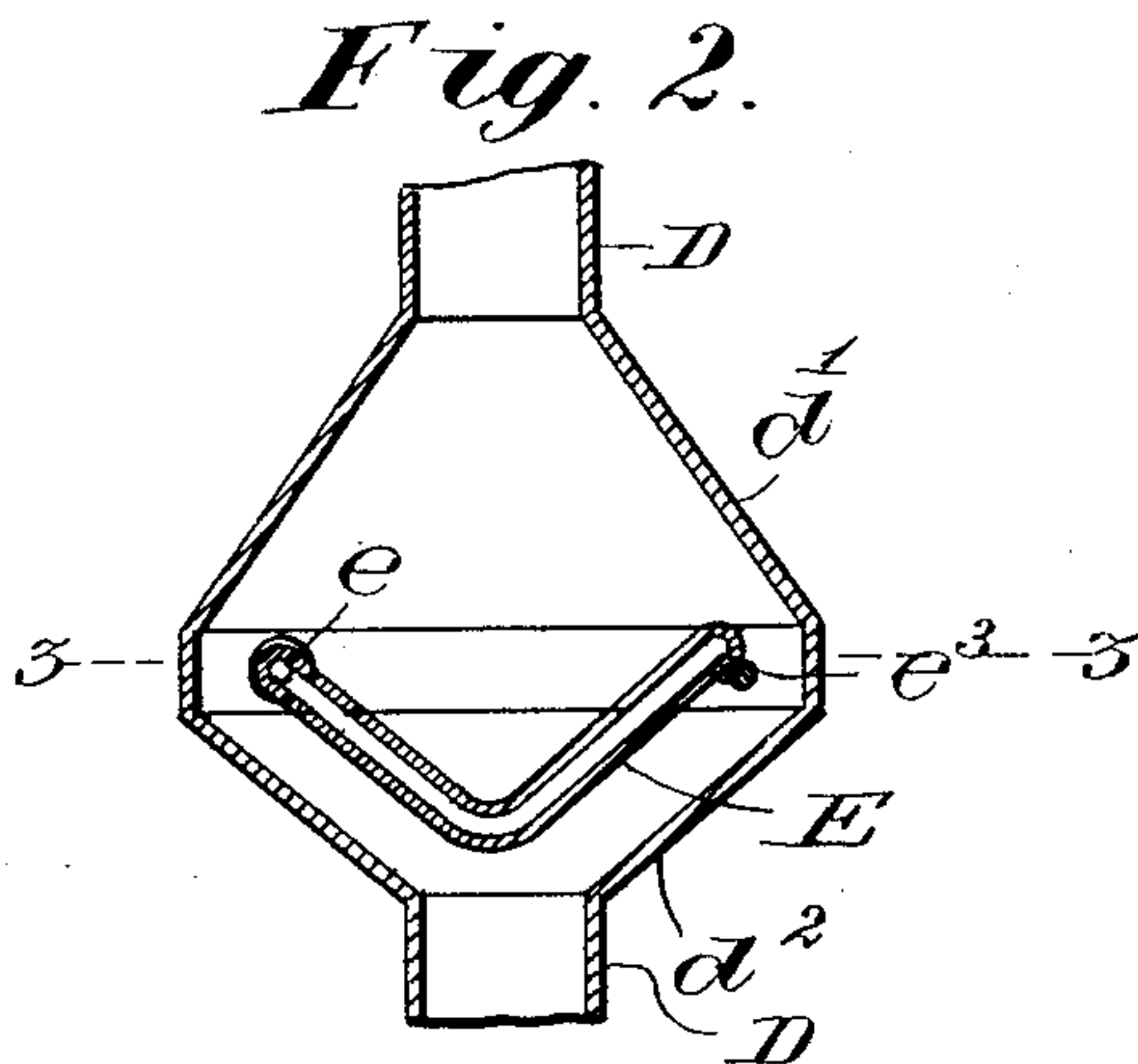
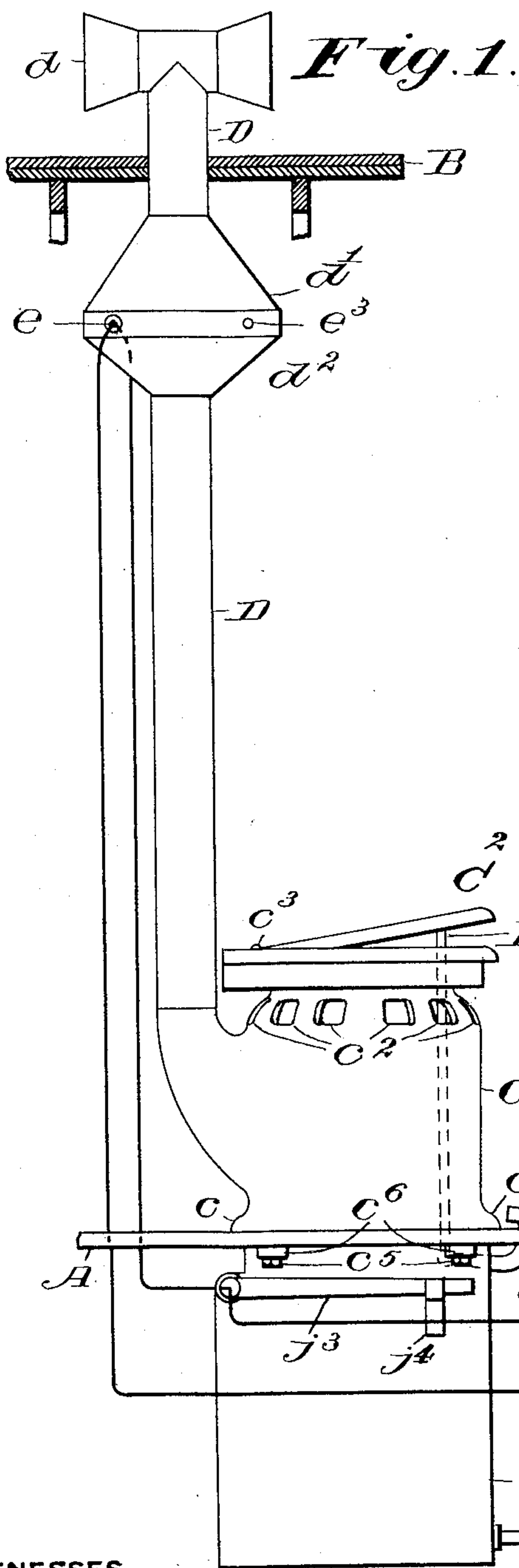
PATENTED JAN. 19, 1904.

J. H. WILSON.  
ELECTRIC SANITARY CLOSET.

APPLICATION FILED OCT. 23, 1902.

NO MODEL.

2 SHEETS -SHEET 1.



**WITNESSES.**

Frank C. Wasley  
Anna T. Halleran.

INVENTOR  
James H. Wilson,  
By Albert M. Moore,  
his ATTORNEY.

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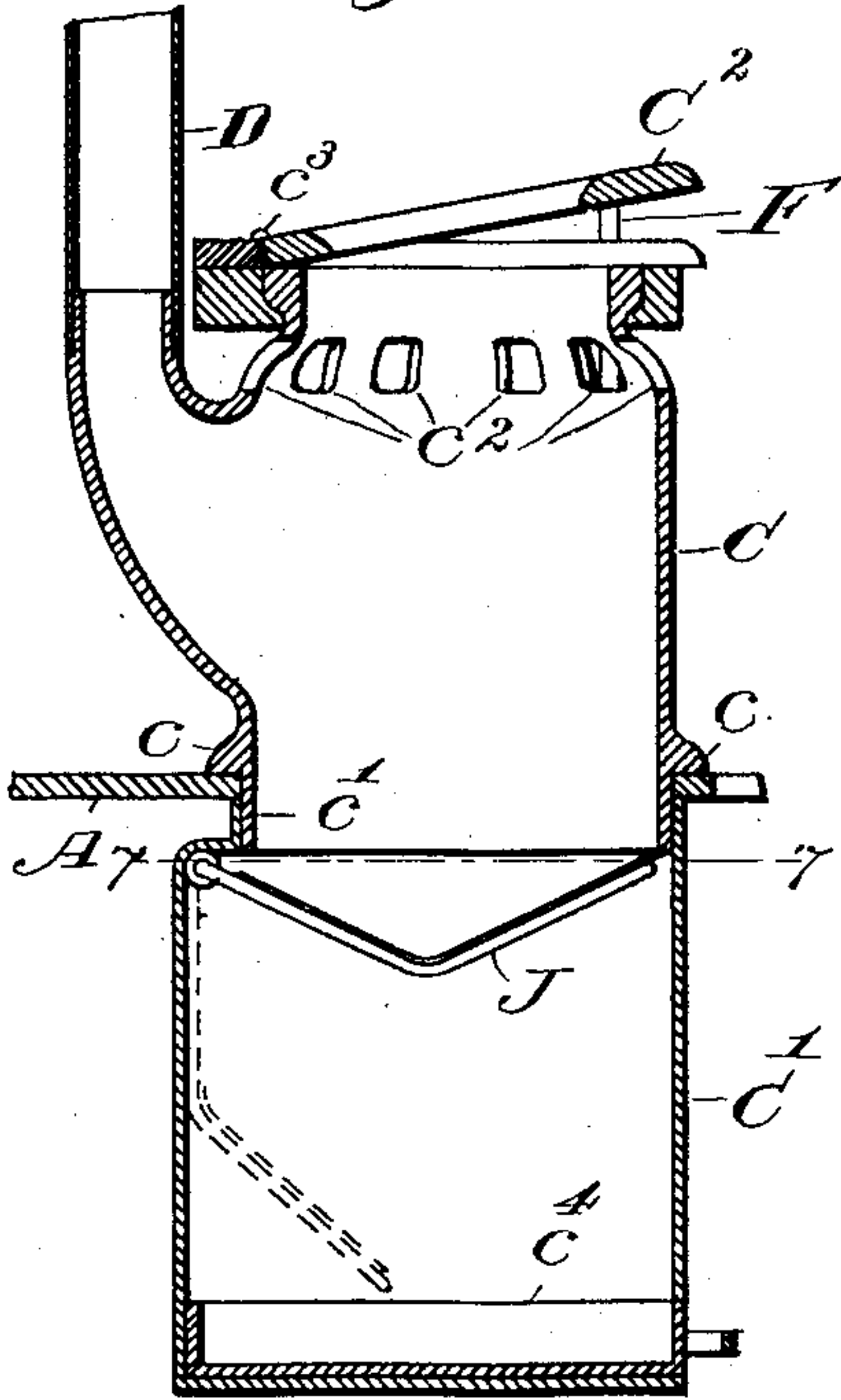
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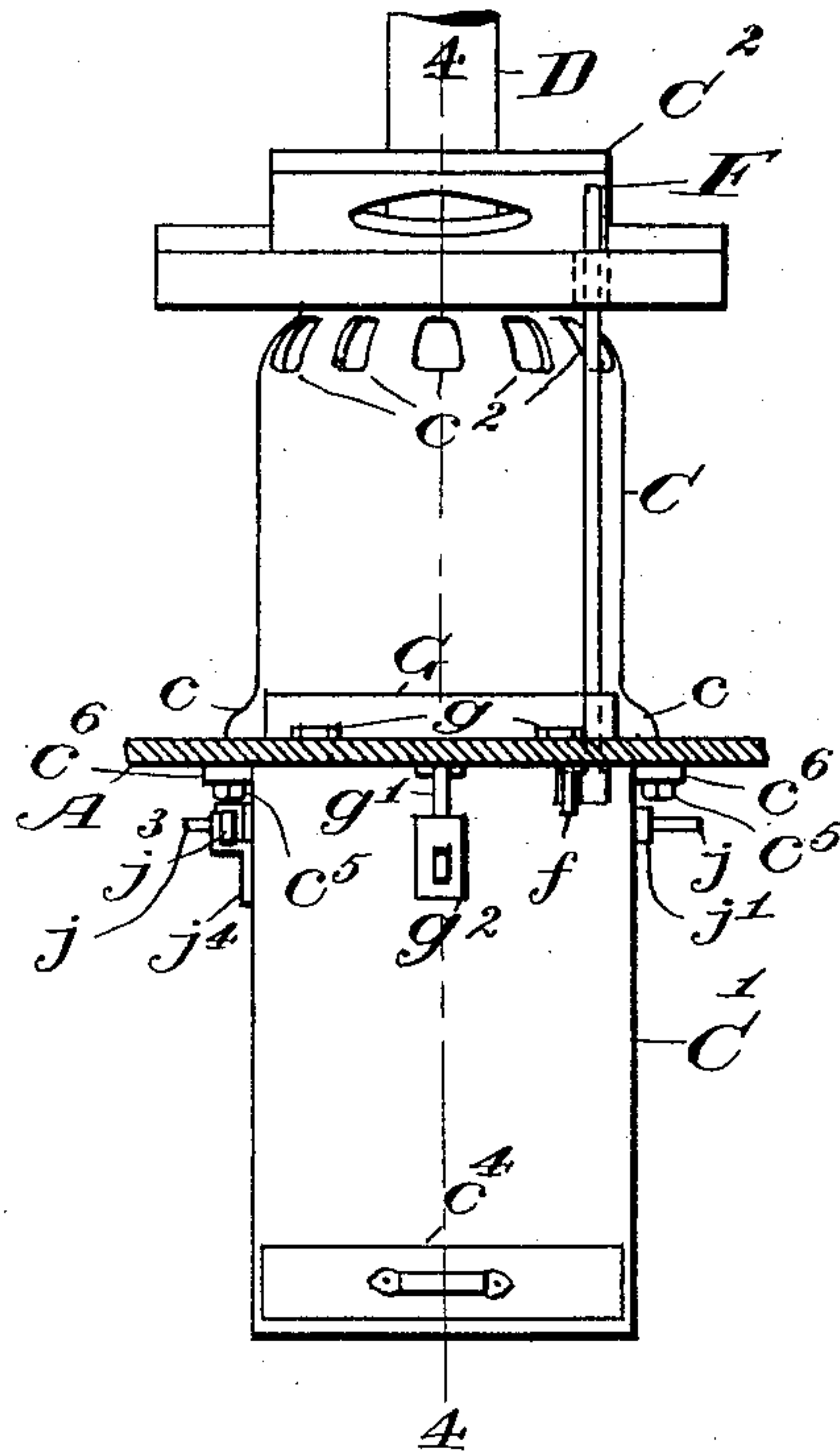
NO MODEL.

2 SHEETS—SHEET 2.

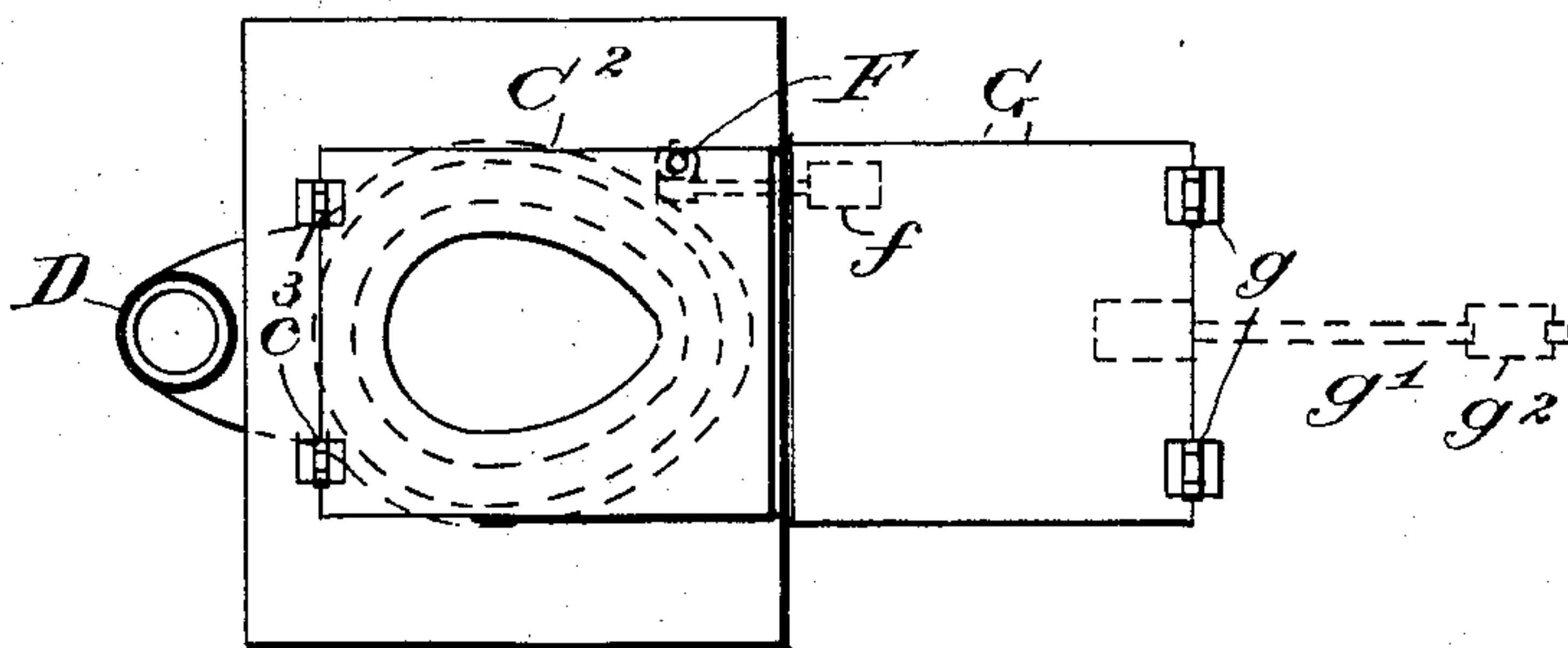
*Fig. 4.*



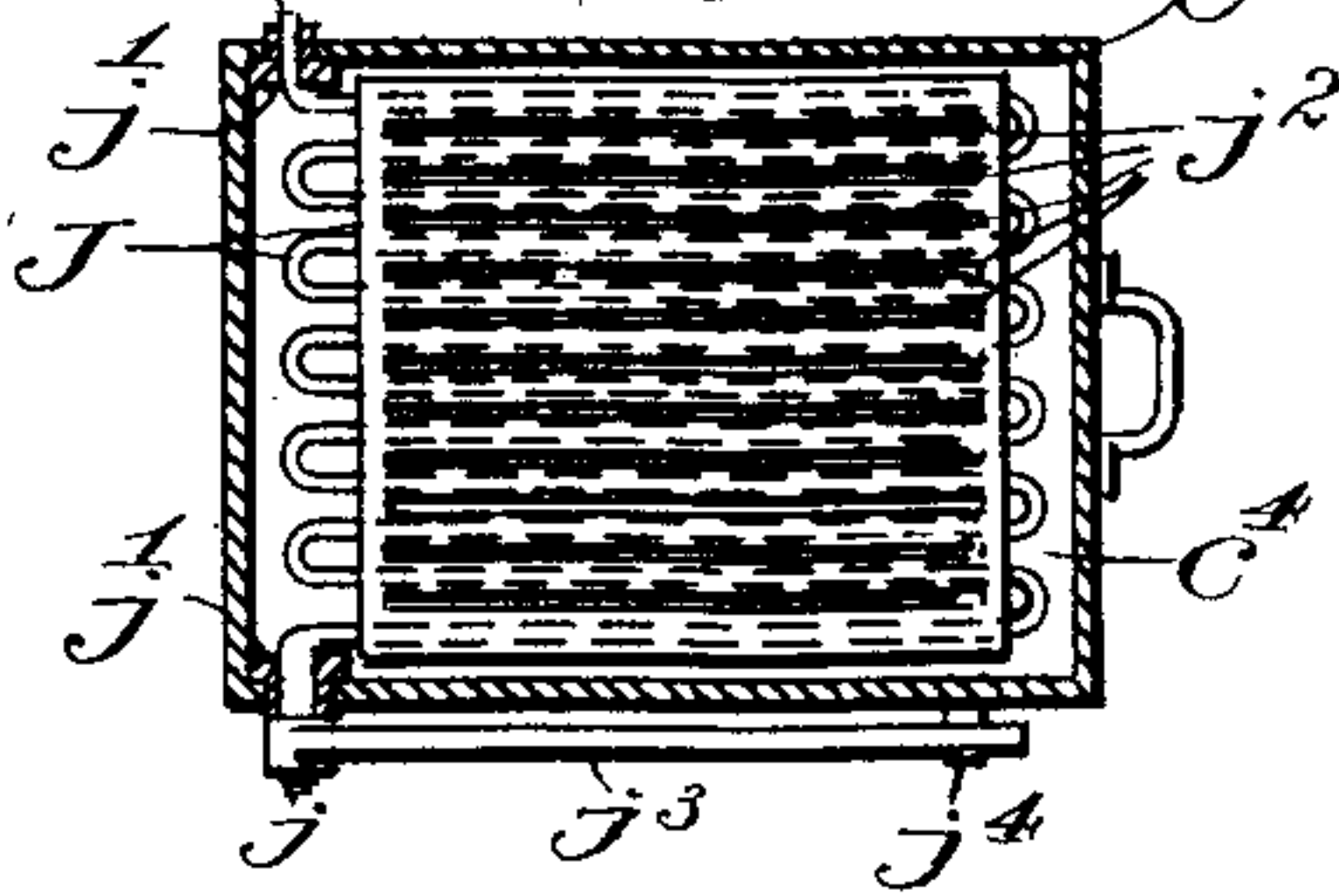
*Fig. 5.*



*Fig. 6.*



*Fig. 7.*



WITNESSES.

Frank L. Hasley  
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By Albert M. Moore,  
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# UNITED STATES PATENT OFFICE.

JAMES H. WILSON, OF LOWELL, MASSACHUSETTS.

## ELECTRIC SANITARY CLOSET.

SPECIFICATION forming part of Letters Patent No. 749,769, dated January 19, 1904.

Application filed October 23, 1902. Serial No. 128,438. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES H. WILSON, a citizen of the United States, residing in Lowell, in the county of Middlesex and Commonwealth of Massachusetts, have invented a certain new and useful Improvement in Electric Sanitary Closets, of which the following is a specification.

This invention relates to electric sanitary closets or privies arranged to discharge upon an electric burner whereby the discharges are consumed.

The closet herein described includes a shaft or chimney for the removal of odors, means for creating a current or draft of air through said chimney while a seat or platform is depressed by the weight of a person thereon, means for the convenient cleaning of the burner, and means for the reception and removal of the ashes; and it consists in the combinations hereinafter described and claimed.

In the accompanying drawings on two sheets, Figure 1 is a side elevation of an electric sanitary closet provided with my improvement and a suitable chimney or air-shaft; Fig. 2, an enlarged vertical section on the line 2 2 in Fig. 3 of the part of the chimney or air-shaft which contains the air-heater and of said heater; Fig. 3, a section of the chimney and heater on the line 3 3 in Fig. 2; Fig. 4, a vertical section of the closet and a part of the chimney on the line 4 4 in Fig. 5; Fig. 5, a front elevation of the closet; Fig. 6, a top plan of the closet, the chimney being in horizontal section; Fig. 7, a horizontal section of the closet and burner on the line 7 7 in Fig. 4.

The drawings represent the closet as it might be used in a car, house, or other structure.

A indicates the floor, and B the roof or ceiling, of a car or building of any usual construction.

C indicates the bowl or upper part of the closet, said bowl having near the bottom an external flange  $c$ , which rests upon the floor, the lower end  $c'$  of the bowl projecting down through the floor, as shown in Fig. 4. The back of the bowl C is connected to a chimney or air-shaft D, which passes up through the roof B and is provided at its upper end with a suitable ventilator or hood  $d$ , adapted nor-

mally to draw a current of air from the bowl C, to which air is admitted through the seat  $C^2$  and between said seat and the top of said bowl and also through air holes or slots  $c^2$ , with which said bowl is preferably provided below said seat to admit air to said bowl when said seat is occupied.

The seat  $C^2$  is of usual form and is hinged at the back at  $c^3$  and near its front rests upon a vertical rod F, the lower end of which is pivoted to a bracket  $f$ , secured to the free rear end of a platform G, hinged at its front end at  $g$  to the floor A.

The platform G will be depressed to the level of the floor A by the weight of a person standing thereon or sitting on the seat, the depression of said seat acting on the platform through the rod F; but the rear end of said platform is normally raised above said floor-level by a lever  $g'$ , secured thereto and carrying a weight  $g^2$  heavy enough to lift said seat and platform. The upward movement of the platform is limited in any convenient manner, as by the bracket  $f$  coming in contact with the under side of the floor A.

The seat may be raised by hand when desired, not being attached to the rod F, but merely resting on the top of said rod.

The raising of the lever  $g'$  by the depression of the seat  $C^2$  or platform G serves to close an electric circuit H by means of a circuit-closer I, as a "knife-switch," the blade  $i$  of which is carried by said lever against or between sheet-metal springs  $i'$ , secured to the under side of the floor A.

Current is supplied to the circuit from any convenient source, as from the trolley-line, if the closet be contained in an electric car. I have indicated a dynamo I' in Fig. 1 as a source of current-supply.

In the circuit H are arranged in series with the dynamo a heater E and an electric burner J, both of which are hereinafter described.

The lower part of receptacle  $C'$  of the closet receives the lower end of the bowl C and is secured in place by any usual or convenient means, as by bolts  $c^2$ , which pass up through external ears or flanges  $c^3$ , with which the upper end of the receptacle  $C'$  is provided, into the floor A.



The chimney D is preferably provided with an enlargement or chamber  $d'$  to contain draft-creating means, as an electric heater E, Figs. 2 and 3, which may be of any usual construction, except that the same is preferably a plate V-shaped in cross-section, as shown, to get a greater heating-surface without unduly enlarging the chamber  $d'$  and to oppose less resistance to the air-current, the heater being represented as rectangular in plan and the lower part  $d^2$  of said chamber being represented as shaped like a hopper.

The heater E is a resistance-circuit  $e$ , arranged in a frame  $e'$  of non-conducting material, as earthenware or porcelain, said frame being provided with ears  $e^2$ , which pass out through the sides of the chamber  $d'$  and which contain the terminals of the circuit  $e$  and insulate them from the chimney, said ears  $e^2$  supporting one end of the heater, while the other end thereof rests upon a horizontal bar  $e^3$ , of non-combustible insulating material, (secured in said chamber  $d'$ ,) or is otherwise insulated from said chimney.

An electric burner J, which may be substantially like the heater E or like any electric heater of ordinary construction, except that it is V-shaped in longitudinal section, is pivoted at one end in the receptacle C' below the bowl C and forms the pan or bottom of said bowl, the terminals  $j$   $j$  of said burner J passing through insulating sleeves, which form the ears  $j'$   $j'$  of said burner, and turn in holes in the sides of said receptacle.

The burner J is preferably provided with slots  $j^2$  to allow liquid matters and ashes to pass therethrough into a suitable drawer  $c^4$ .

To one of the ears  $j'$  of the burner J outside of the receptacle C' is rigidly secured a lever  $j^3$ , normally engaged by a catch, Figs. 1 and 5, to retain the burner in the operative position. (Shown by full lines in Fig. 4.) By releasing said catch the lever may be turned to throw said burner into the position shown by dotted lines in Fig. 4 to empty any matters too large to pass through the slots  $j^2$  into said drawer  $c^4$ . The drawer may be removed, emptied, and replaced.

It is obvious that a person stepping on the platform will close the circuit, and thereby cause an increase of temperature in the heater E and an increased current of air to pass up the chimney from the closet and will also cause the burner to be heated, and these temperatures will be maintained while the seat or

the platform is occupied. In this manner all offensive odors will be carried up the chimney and matters deposited on the burner will be consumed.

Obviously the seat, platform, and any parts with which the user might come in contact should be of insulating material or insulated from the circuit.

I claim as my invention—

1. The combination in a sanitary closet of a bowl, a part adapted to be depressed by the weight of a person thereon, an electric circuit, means for closing said circuit by the depression of said part, and a burner arranged in said circuit and forming the pan or bottom of said bowl.

2. The combination in a sanitary closet of a bowl, a seat adapted to be depressed, an electric circuit, means for closing said circuit by the depression of said seat, and a burner arranged in said circuit below said seat and forming the pan or bottom of said bowl.

3. The combination in a sanitary closet of a bowl, a seat, a platform adapted to be depressed by the weight of a person approaching or leaving said closet, an electric circuit, means for closing said circuit by the depression of said platform, and a burner arranged in said circuit below said seat and forming the pan or bottom of said bowl.

4. The combination in a sanitary closet of a bowl, a seat, an electric circuit, means for closing said circuit by the weight of a person using said closet, a burner arranged in said circuit and forming the pan of said closet, a suitable receptacle in which said burner is pivoted, means of discharging the contents of said burner and a removable drawer arranged to slide in said receptacle below said burner and to receive matters discharged from said burner.

5. The combination of a sanitary closet, a chimney connected therewith, a normally open electric circuit, a burner arranged in said circuit within said closet, a heater situated in said chimney and included in said circuit, said burner and heater being operated by the closing of said circuit, and means of closing said circuit.

In witness whereof I have affixed my signature in presence of two witnesses.

JAMES H. WILSON.

Witnesses:

ALBERT M. MOORE,  
ANNA T. HALLORAN.