

**No. 713,056.**

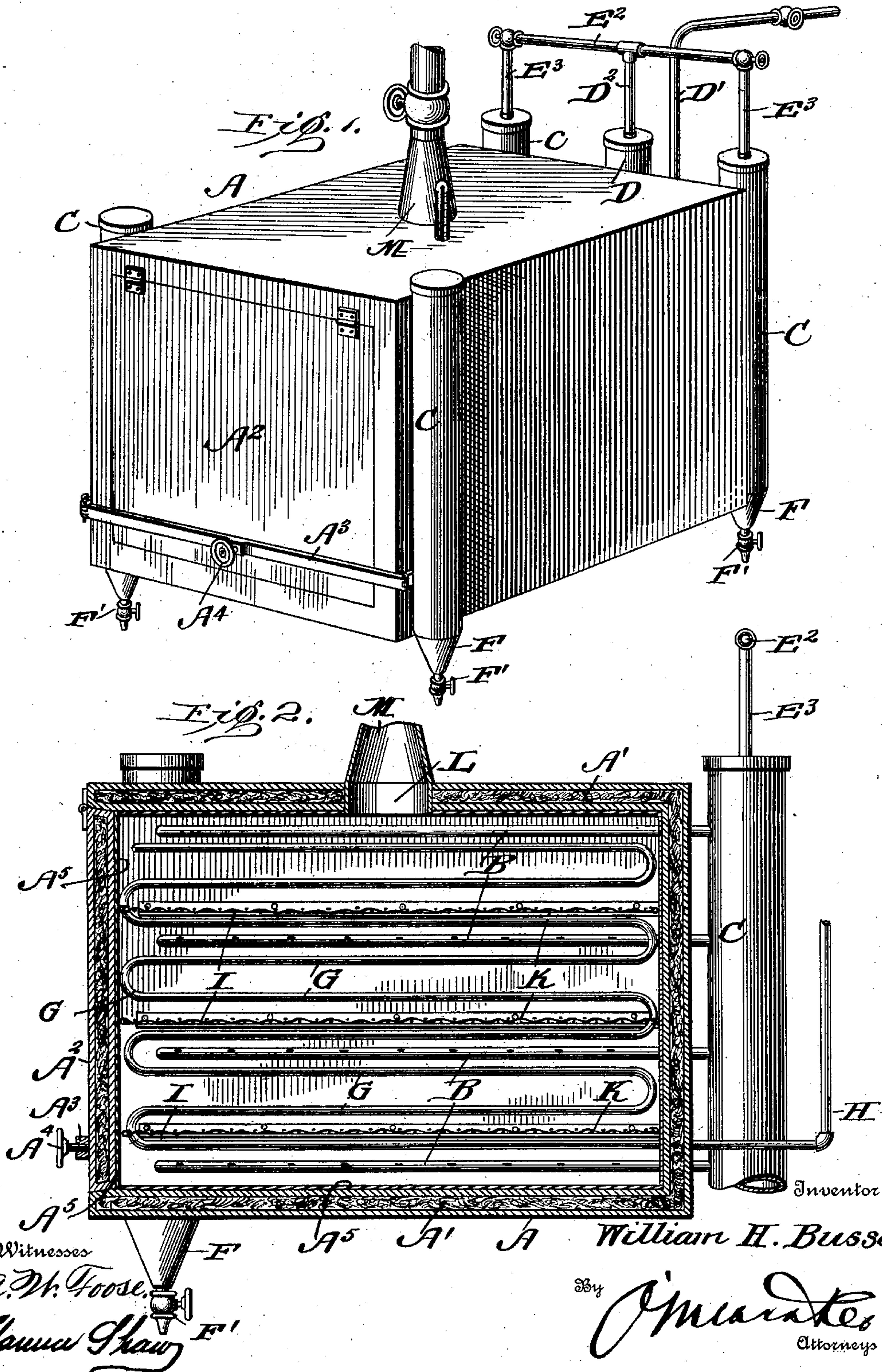
**Patented Nov. 11, 1902.**

**W. H. BUSSE.**  
**MATTRESS STERILIZER.**

(Application filed Dec. 7, 1901.)

(No Model.)

**2 Sheets—Sheet 1.**



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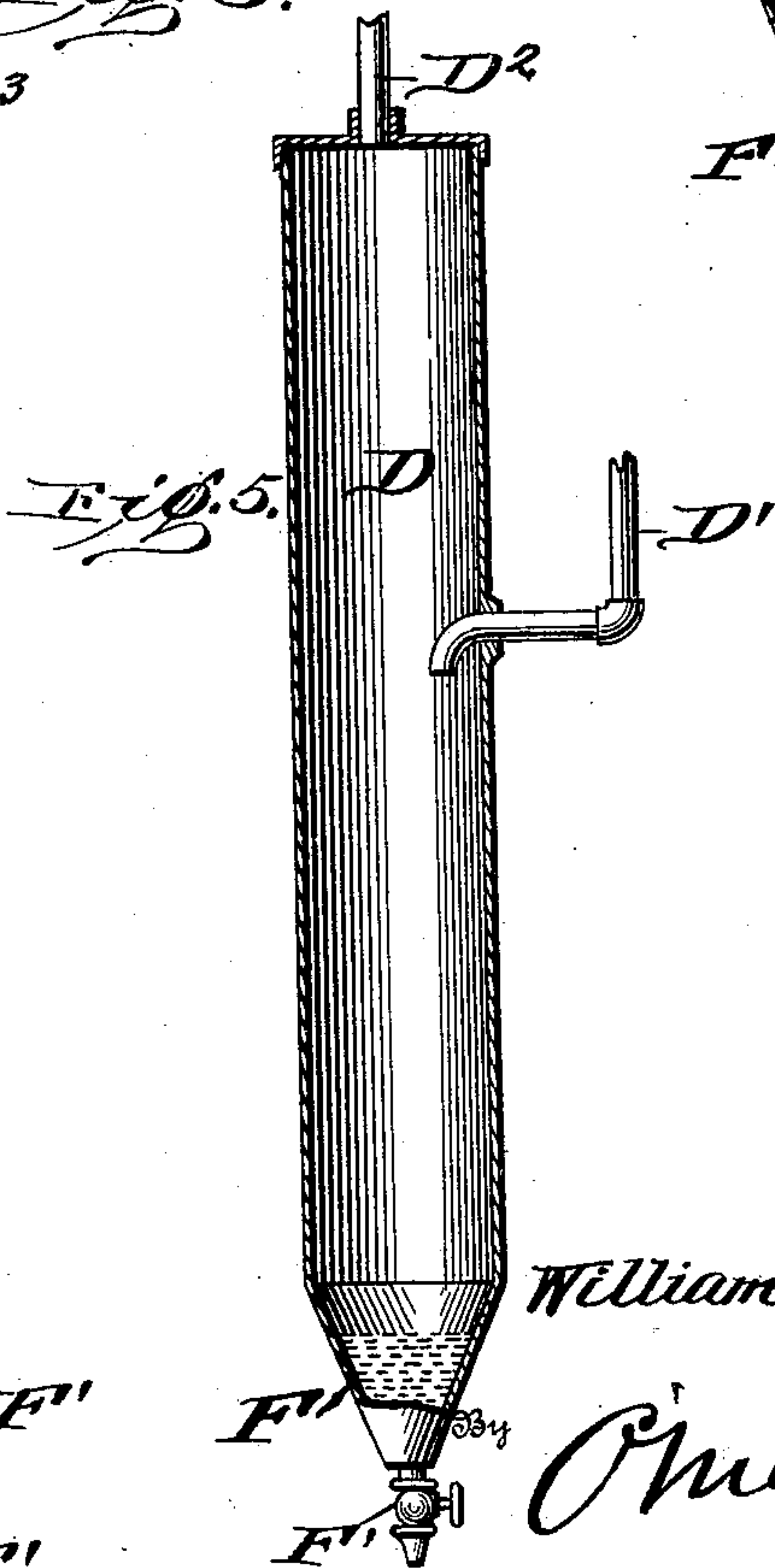
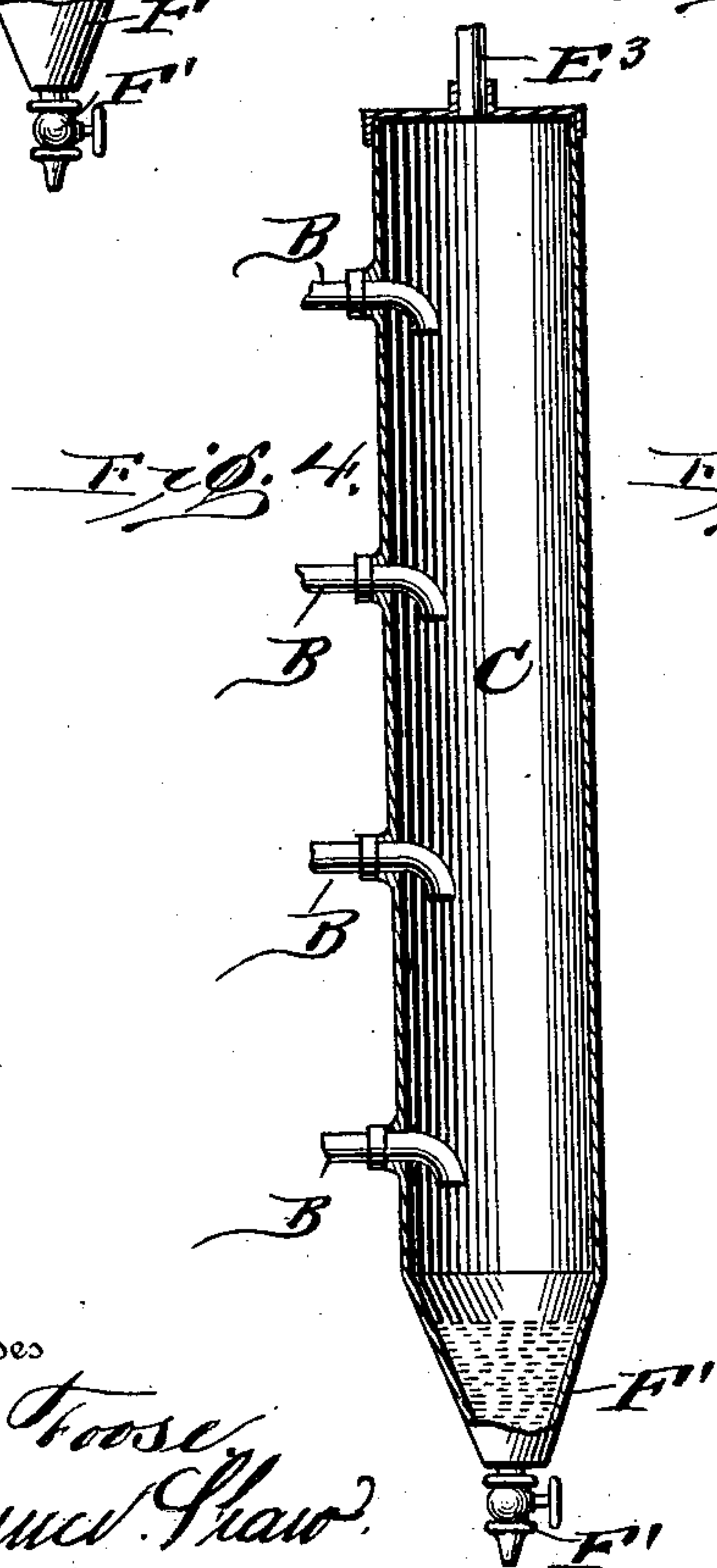
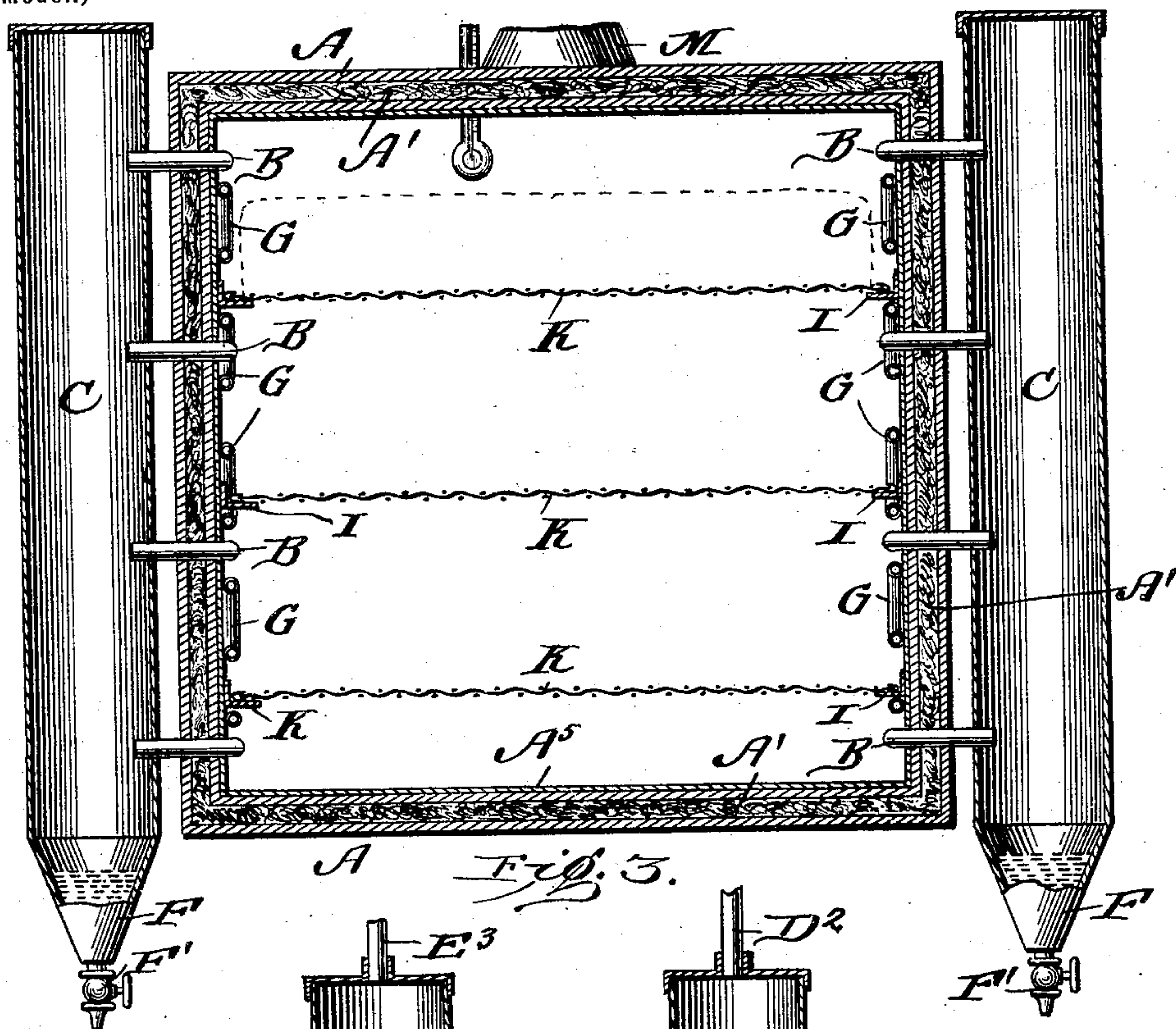
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2 Sheets—Sheet 2.



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# UNITED STATES PATENT OFFICE.

WILLIAM HENERY BUSSEY, OF DAYTON, OHIO, ASSIGNOR OF ONE-THIRD  
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## MATTRESS-STERILIZER.

SPECIFICATION forming part of Letters Patent No. 713,056, dated November 11, 1902.

Application filed December 7, 1901. Serial No. 85,027. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM HENERY BUSSEY, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented a new and useful Mattress-Sterilizer, of which the following is a specification.

This invention is a mattress steamer or sterilizer, the object being to provide a simple and efficient appliance by means of which mattresses and similar articles can be steamed or sterilized, thereby driving from the said mattress all germs or odors and leaving said mattress thoroughly clean and pure.

The invention consists in the novel features of construction and combination of parts hereinafter fully described, and pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a device constructed in accordance with my invention. Fig. 2 is a vertical longitudinal sectional view. Fig. 3 is a transverse section. Fig. 4 is a detail sectional view showing one of the end supporters or condensers, and Fig. 5 is a detail sectional view illustrating the central supporter or condenser.

In carrying out my invention I employ a box or case A, the walls of which are double and filled with a packing of asbestos or mineral wool, as shown at A'. This box or case A has an upwardly-swinging door A<sup>2</sup>, which is held closed by means of a bar A<sup>3</sup>, carrying a binding-screw A<sup>4</sup>, so that the door can be securely fastened, and thereby make a thoroughly-secure and air-tight joint, it being noted that the said door has beveled edges, as shown in Fig. 2. The box or case is also preferably provided with a metallic lining A<sup>5</sup>, and the door is of course provided with a similar lining.

Perforated steam-pipes B are arranged horizontally in parallel order along the sides of the box or casing, said pipes communicating at their forward and rear ends with cylindrical-shaped supporters or condensers C, arranged upon the exterior of the box or case and at the corners thereof. A central supporter or condenser D is arranged at the rear of the box or case, and between the two rear end condensers a steam-pipe D' leads into said central supporter or condenser about midway

its height. A steam-outlet pipe D<sup>2</sup> extends upwardly from the top of the condenser or supporter D and is connected to the cross-pipe E<sup>2</sup>, from which depend pipes E<sup>3</sup>, which lead into the upper ends of the rear supporters or condensers. By leading the steam first into the central supporter or condenser and from there into the end supporters or condensers and then through the perforated horizontal pipes B, I am enabled to inject thoroughly-dried steam into the compartment.

The lower end of each condenser is made funnel-shaped and provided with an outlet-valve, as shown at F and F', the water of condensation collecting in the said funnel-shaped end and by opening the valve can be quickly and easily drained therefrom. If desired, an injector-pipe can be connected with the steam-supply and any suitable germ-destroying gases incorporated with the steam as it is forced into the box or case. In order to maintain the temperature to the proper high degree, I employ the heating-coils G, which are arranged upon the sides of the box or case, alternating with the steam-pipes, as most clearly shown in Figs. 2 and 3, said heating-coils G being connected to the pipe H, by means of which the heating medium is supplied to the coils. By means of these heating-coils I am enabled to raise and maintain a temperature of 400° Fahrenheit. Supporting-brackets I are arranged upon opposite sides of the box or case, and resting thereon are the screens K, upon which the mattress to be steamed and sterilized is placed, and it is apparent that the steam forced from the perforated pipes B will act upon the top and bottom of the mattress, thereby thoroughly cleaning the same and driving out or killing all germs and also purifying the said mattress of all odors and impurities.

An escape-opening L is produced in the top of the box or case and has a funnel or pipe M connected therewith, which leads to a chimney or flue, thereby carrying off all odors and products of steaming and sterilizing. A suitable gage is arranged in connection with the box or case in order to indicate the temperature within the said box or case.

It will thus be seen that I provide a simple and efficient device by means of which a num-



ber of mattresses can be treated at the same time and by means of which the said mattresses will be thoroughly purified.

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

1. In a sterilizer, the combination with a main compartment or box of perforated steam-pipes traversing the interior of said compartments, and branching from condensing-cylinders in communication with a dispensing cylinder or chest, said condensing-cylinders having drainage-valves at their bottoms, means for supplying steam to said dispensing cylinder or chest, and means for conducting said steam away, substantially as shown and described.

2. In a sterilizer, the combination, with a main compartment or box, of perforated steam-pipes traversing the interior of said compartment and connected with and leading from condensing-cylinders in communication with a dispensing cylinder or chest, said condensing-cylinders having valves for carrying off the water of condensation, means for supplying steam to said dispensing cylinder or chest, means for exhausting said steam, and heating-pipes arranged in parallel series on the interior of said main compartment, substantially as shown and described.

3. In a sterilizer, the combination with a main compartment or box, with a vent-opening therein, of a perforated steam-pipe traversing the interior of said compartment and branching from condensing-cylinders in communication with a dispensing cylinder or chest, said condensing-cylinders having drainage-valves at their bottoms, and means for supplying steam to said dispensing cylinder or chest, and means for conducting said steam away, substantially as shown and described.

4. In a sterilizer, the combination with a main compartment or box, of a perforated steam-pipe traversing the interior of said

compartment and connected with and leading from condensing-cylinders in communication with a dispensing cylinder or chest, said condensing-cylinders having relief-valves for carrying off the water of condensation, a pipe connected with said steam-pipe for introducing a disinfectant gas or agent into said steam-current, means for supplying steam to said dispensing cylinder or chest and means for conducting said steam off, substantially as shown and described.

5. In a sterilizer, the combination with a main compartment or box, of perforated steam-pipes traversing the interior of said compartment and branching from condensing-cylinders in communication with a cylinder or chest, said condensing-cylinder having relief-valves for carrying off the water of condensation, heating-pipes traversing the interior of said compartments, means for supplying steam to said dispensing cylinder or chest and to said heating-pipes, other cylinders into which said steam-pipes discharge, and a valve-outlet from said cylinders for carrying off the water of condensation, and an exhaust-pipe therefrom for conducting off the steam, substantially as shown and described.

6. In a sterilizer, the combination with a main compartment or box, brackets attached to the sides of said compartment and perforated shelves supported by said brackets, of perforated steam-pipes traversing the interior of said compartment and branching from condensing-cylinders in communication with a dispensing cylinder or chest, said condensing-cylinders having drainage-valves at their bottoms, and means for supplying steam to said dispensing cylinder or chest, and means for conducting said steam away, substantially as shown as described.

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