

(No Model.)

3 Sheets—Sheet 1.

F. ANDRÉ.
DISINFECTING APPARATUS.

No. 470,966.

Patented Mar. 15, 1892.

Fig. I.

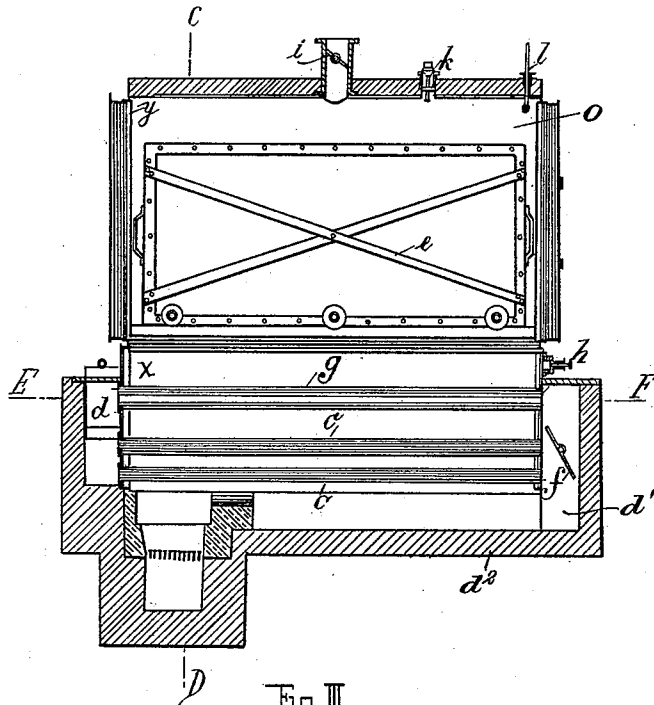
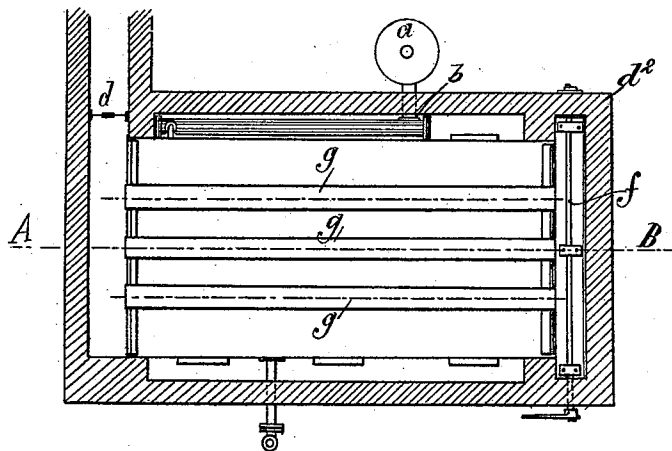


Fig. II.



Witnesses:

Geo. H. Rea,

Robert Goulet.

Inventor.

Friedrich André.

By

James L. Norris,

Atty.

(No Model.)

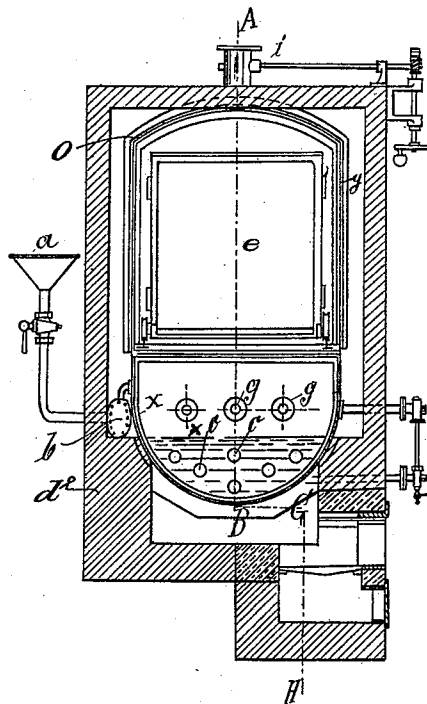
3 Sheets—Sheet 2.

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DISINFECTING APPARATUS.

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Patented Mar. 15, 1892.

Fig. II.



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DISINFECTING APPARATUS.

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Fig.V.

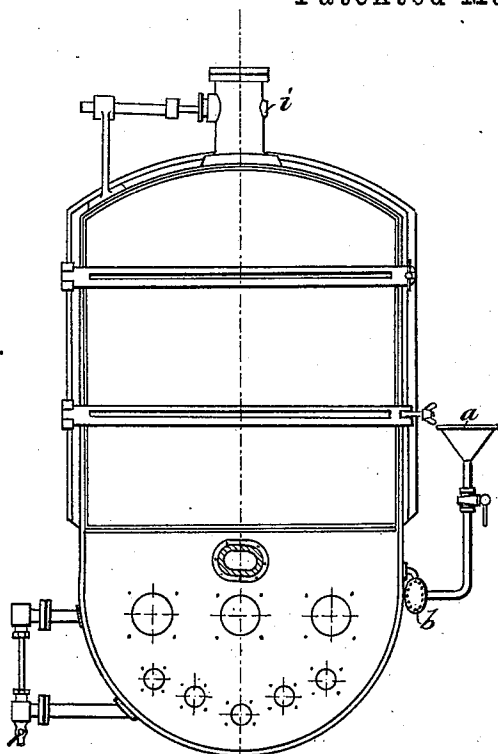
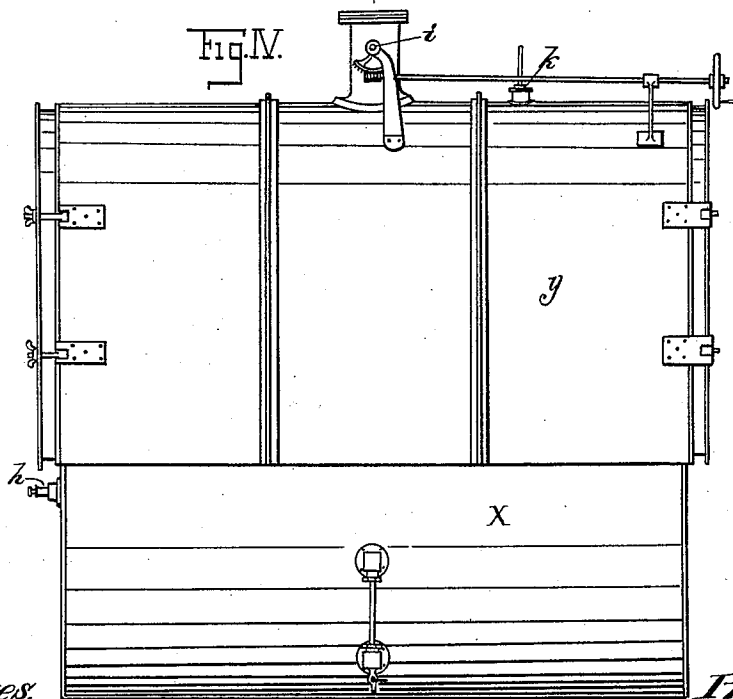


Fig.V.



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Atty.

UNITED STATES PATENT OFFICE.

FRIEDRICH ANDRÉ, OF HILDESHEIM, GERMANY.

DISINFECTING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 470,966, dated March 15, 1892.

Application filed July 23, 1891. Serial No. 400,437. (No model.)

To all whom it may concern:

Be it known that I, FRIEDRICH ANDRÉ, engineer, of Hildesheim, in the Kingdom of Prussia and German Empire, have invented
5 new and useful Improvements in Disinfecting Apparatus, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention has for its object to provide
10 a novel, simple, efficient, and economical apparatus for disinfecting bedding and other articles; and it consists in the features of construction and the combination or arrangement of devices hereinafter described and
15 claimed, reference being made to the accompanying drawings, in which—

Figure I is a longitudinal section thereof on line A B G H of Fig. II. Fig. II is a cross-section of the same on line C D of Fig. I.
20 Fig. III is a horizontal section on line E F of Fig. I. Fig. IV is a side view of the apparatus, the masonry being removed. Fig. V is a front end view of the boiler.

The apparatus consists of a boiler O, which
25 is walled in when set up and the lower part *x* of which serves as a water-chamber—*i. e.*, as a steam-generator—while the upper part *y* is supplied with the articles or materials required to be disinfected, such as bedding,
30 washing, &c. The upper part is closed on both sides by doors turning on hinges and secured air-tight by means of screws. In this part is arranged a track formed of angle-irons, upon which a carriage *c*, running
35 on wheels, can be conveniently pushed in and out. To maintain the water at a uniform height, the feed-water is supplied to the lower part through a funnel *a*, arranged on one side, this water entering first the heater *b* and then
40 the boiler, wherein it is heated by the fire-gases which ascend from below and pass along the tubes *c* on their way to the flue *d* and the chimney steam being thus generated at a temperature of about 102° centigrade at
45 the outside.

In the upper part of a flue *d'* in a suitable brick-work or other furnace structure *d''* is arranged a damper *f*, which allows, when opened, the greatest part of the heating-gases

to be conveyed to the pipe *g*, arranged above 50 the tubes *c* and used for drying purposes, while by opening a small valve *h*, adapted to the front end of the boiler, fresh air is admitted for cooling and drying purposes. Although the construction is such that even after closing the valve *i*, arranged in the tubular neck on the top of the boiler, the temperature of the steam will not exceed about 102° centigrade; yet a safety-valve *k* is arranged, as a further precaution, in the upper wall of 60 the boiler, while the thermometer *l* indicates the temperature inside the latter.

This disinfecting process is carried out in the following manner: As soon as the washing, bedding, and other articles, which are 65 either suspended or heaped up in the carriage, have been subjected for a period of from one-quarter to one hour, or thereabout, to a temperature of about 102° centigrade the damper *f* and the valves *h* and *i* are opened, 70 whereupon the greatest part of the heat passes through the pipe *g*, while fresh and dry air is admitted.

What I claim, and desire to secure by Letters Patent of the United States, is— 75

1. In a disinfecting apparatus, the combination, with a furnace provided with flues and a boiler composed of an upper receptacle and a lower water-chamber, of tubes *c c* and *g g* in said water-chamber, lying, respectively, 80 below and above the surface of the water therein, and a valve *f* in one of the furnace-flues, substantially as described.

2. In a disinfecting apparatus, the combination, with a furnace provided with flues 85 and a boiler composed of an upper receptacle and a lower water-chamber, of tubes *c c* and *g g* in said water-chamber, lying, respectively, below and above the surface of the water therein, a valve *f* in one of the furnace-flues, 90 and an air-inlet valve for the admission of air into the boiler, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

FRIEDRICH ANDRÉ.

Witnesses:

W. BINCLEWALD,
PAUL FISCHER.