

H. F. JONES & W. D. BLYTHE.
 APPARATUS FOR DISINFECTING MATTRESSES.
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1,052,828.

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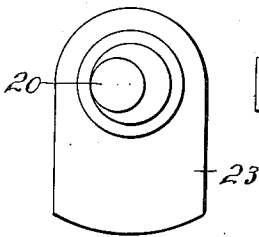
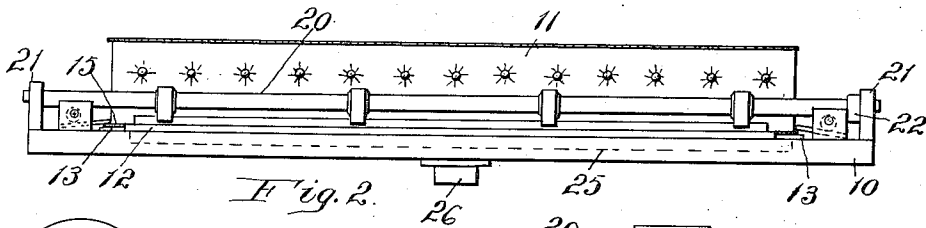
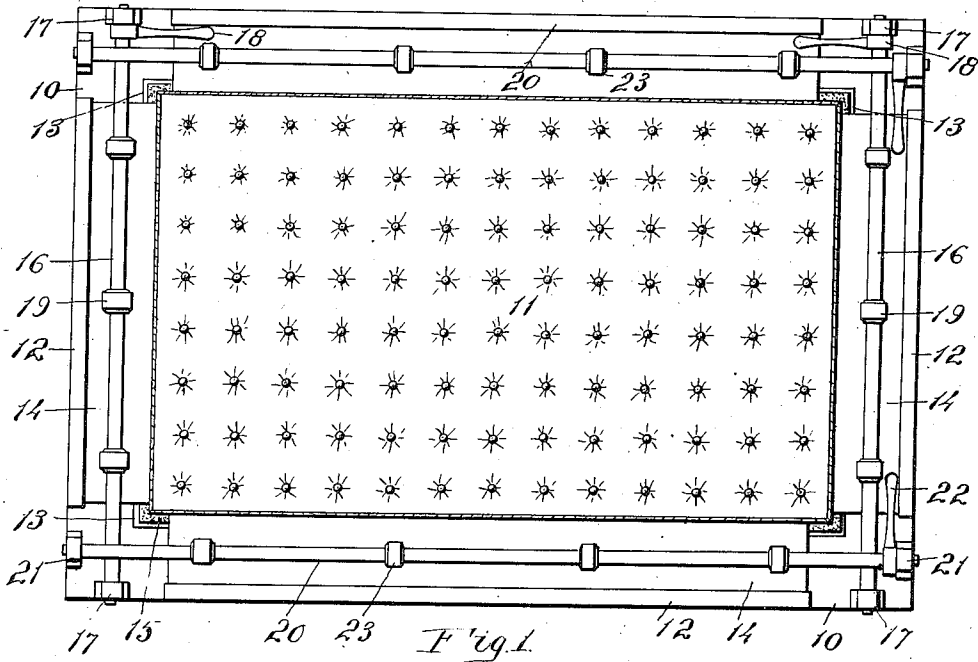


Fig. 4.

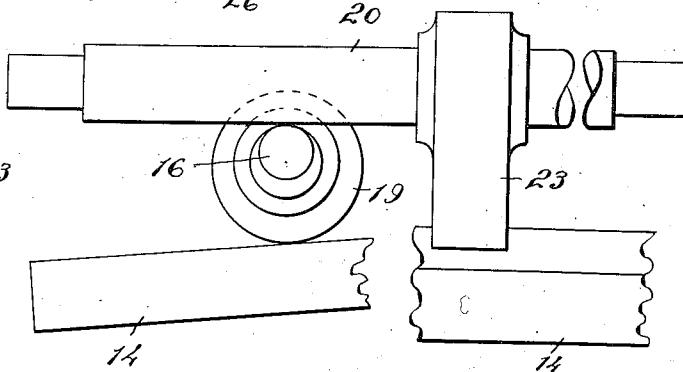


Fig. 3.

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UNITED STATES PATENT OFFICE.

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APPARATUS FOR DISINFECTING MATTRESSES.

1,052,828.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, HUGH F. JONES and WILLIAM D. BLYTHE, citizens of the United States, and residents of Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Apparatus for Disinfecting Mattresses, of which the following is a specification.

10 Our invention pertains to means for renovating and disinfecting, and it has special reference to the mechanism for purifying bedding, mattresses, feathers, clothing, and fabrics of all kinds.

15 The invention fundamentally depends on mechanism which is so arranged that a volume of air, or preferably ozone may be forced through the articles to be renovated and disinfected, after which any disinfecting, purifying or renovating gas may be in like manner applied to the articles, whereby every part of the articles may be subjected to the action of the gases, and thus come under the corrective influence of the deodorant used, as will now be set forth in detail.

20 In the accompanying drawing Figure 1 is a top or plan view of one form of our mechanism, applicable to the renovation of mattresses. Fig. 2 is a side or edge view of the mattress renovator. Fig. 3 is a side view of a portion of the clamping mechanism, partly in section. Fig. 4 is an end view, partly in section of one of the clamping rods and eccentric, partly in section.

35 In constructing our invention we provide a sub-base 10 of suitable size, preferably large enough to receive a double mattress 11, and along each side is a marginal flange 12 which projects above the upper surface of the base, as shown in Figs. 1 and 2.

40 The mattress itself rests on a base 13, and at each end and side of the mattress is a narrow board 14 one edge of which rests on the lower fabric welt 15 of the mattress, and the other edge of each board abuts the upwardly projecting flanged strip 12 on the margin of the sub-base, and when in that position each board is thus slightly inclined, as shown in Fig. 2.

50 In order to tightly seat these boards and thus hold the mattress welt firmly in position each end of the sub-base has a cross rock shaft 16 mounted in bearings 17 at the ends of the shaft, and these shafts are directly above and parallel with the board 14. One end of each of these shafts has an op-

erating lever 18, by means of which it may be rocked, and at intervals along the shaft are cams 19 which are so arranged on the shaft that when the lever 18 is turned down these cams will engage with the board 14, and thus clamp the mattress welt tightly to the base 13. Along each side is a similar rock shaft 20 mounted in bearings 21 at the ends, and provided with an operating lever 22. This shaft has cams 23 which, as the shaft 20 is above the shaft 16, are of sufficient length to project down and engage with the clamping board beneath. Thus in Fig. 3 we show the two shafts in the proper relations with the two sets of cams in contact with the side and end clamping boards 14.

As shown in Fig. 4, the rock-shafts may have their projecting bearing ends eccentrically disposed if preferred, but this is a mere detail of construction.

It will be observed, by reference to Fig. 2 that the sub-base 10, below the base 13 is provided with a recess, shown by the dotted lines 25, and the base 13 is provided with perforations, not shown, but which will be more fully shown in Fig. 5, and centrally the sub-base has an inlet tube 26, by means of which air and the deodorizing gases may be supplied to the recessed sub-base and thus forced through the mattress. This is particularly serviceable for hospital uses, and is available not only for deodorizing purposes, but also for forcing warm air through the mattress.

In the use of the apparatus herein shown it is our purpose to first inject air through the articles to be treated, or, the preferred material is ozone for the purpose of driving out foul gases, after which the gas or gases of suitable deodorants or disinfectants are injected, and by means of which all foul gases are dissipated and forms of animal life destroyed.

It is obvious that instead of blowing a blast of air through the mattress, we may use suction as the means for disseminating air through the mattress, as many buildings are now equipped with vacuum apparatus for various purposes.

What we claim as new is:

1. A disinfecting apparatus, comprising a base, means for attaching the margins of a mattress thereto, and means for supplying gas under pressure to the bottom of said mattress and forcing gas through said mat-

2. A disinfecting apparatus, comprising a hollow base, a perforated support thereon, an inlet tube communicating with said hollowed base, and means for attaching the
5 margins of a mattress to said perforated support.

3. A disinfecting apparatus, comprising a sub-base, a base thereon having perforations, said sub-base being provided with a hol-
10 lowed space beneath the perforated base, clamping plates adapted to engage the marginal portion of the base and clamps for securing the margins of a mattress by means of said plates.

15 4. A disinfecting apparatus, comprising a base, a perforated plate thereon, tube connection with the base below the perforated

plate, and marginal clamping bars around the perforated plate, adapted to secure a mattress or similar article thereto. 20

5. In a mattress deodorizer, a base, means for attaching the margins of a mattress thereto, and pipe connections with the base for forcing gases through a mattress.

Signed at the city of Los Angeles, county 25 of Los Angeles, State of California, this 9th day of December, 1911, in the presence of witnesses.

HUGH F. JONES.
WILLIAM D. BLYTHE.

Witnesses:

J. S. ZERBE,
JAMES WHARTON.