

No. 786,203.

PATENTED MAR. 28, 1905.

D. GAILEY.

COVER FOR DRAINS, VENT BOXES, WASHPAVES, &c.

APPLICATION FILED OCT. 1, 1904.

Fig. 1.

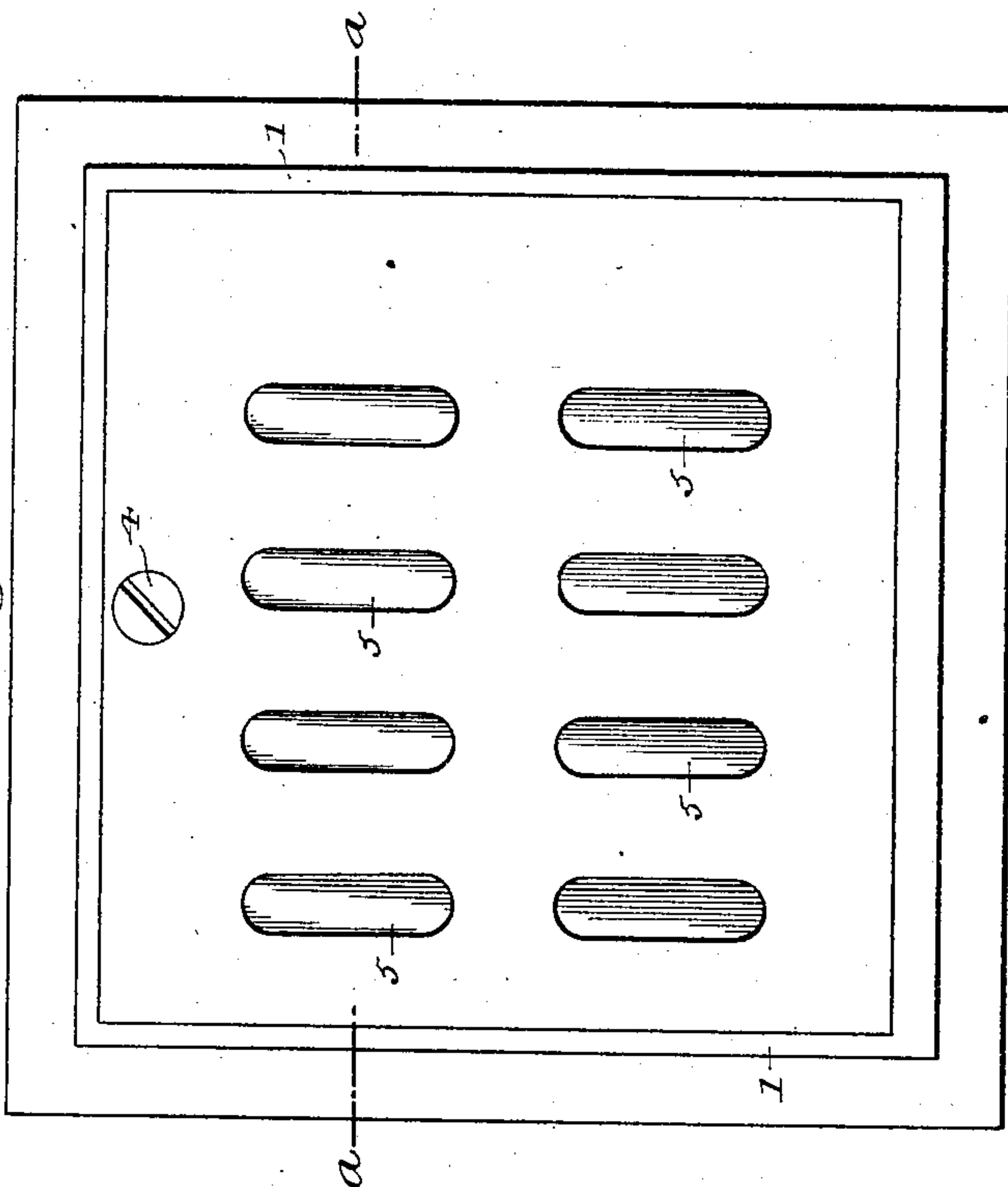


Fig. 2.

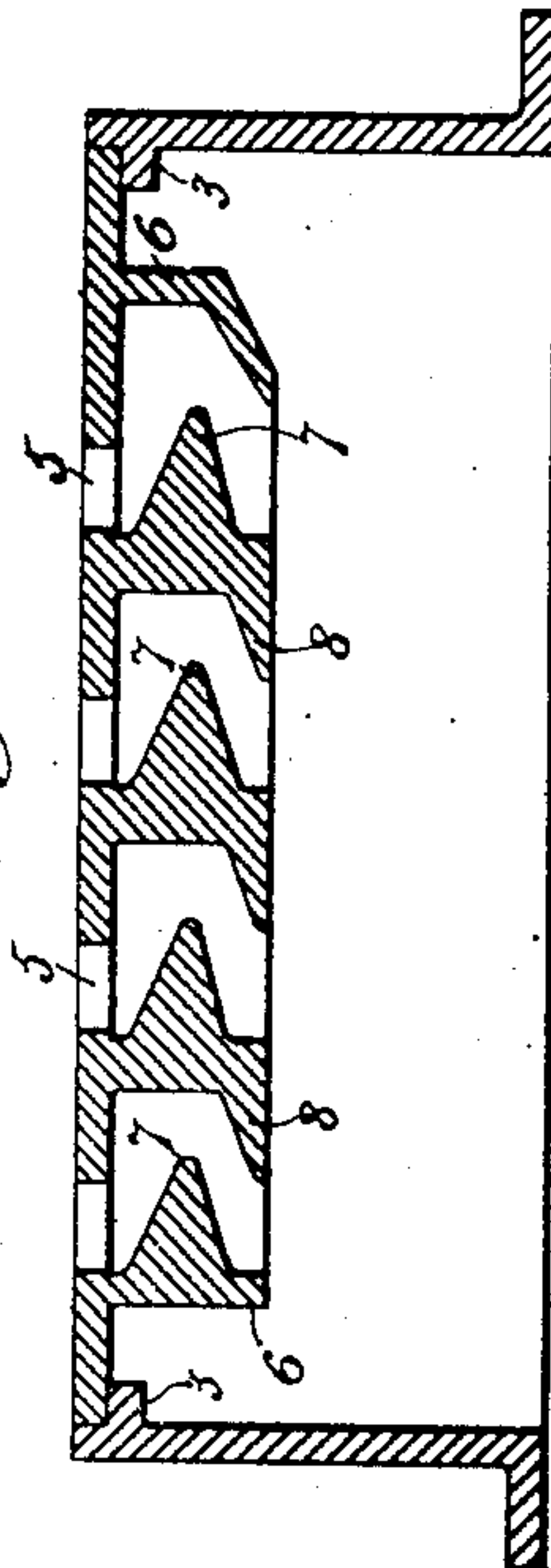


Fig. 3.

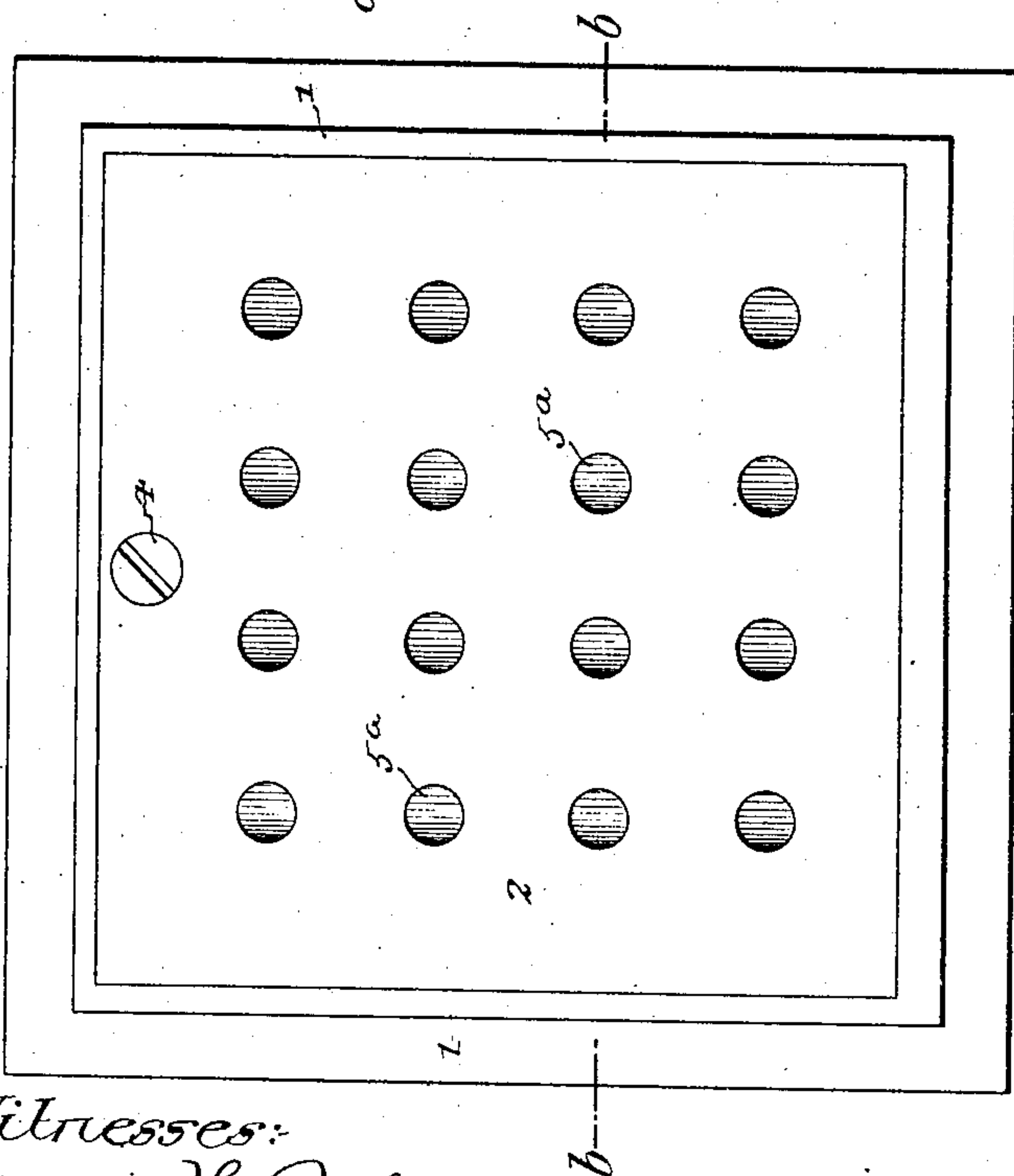
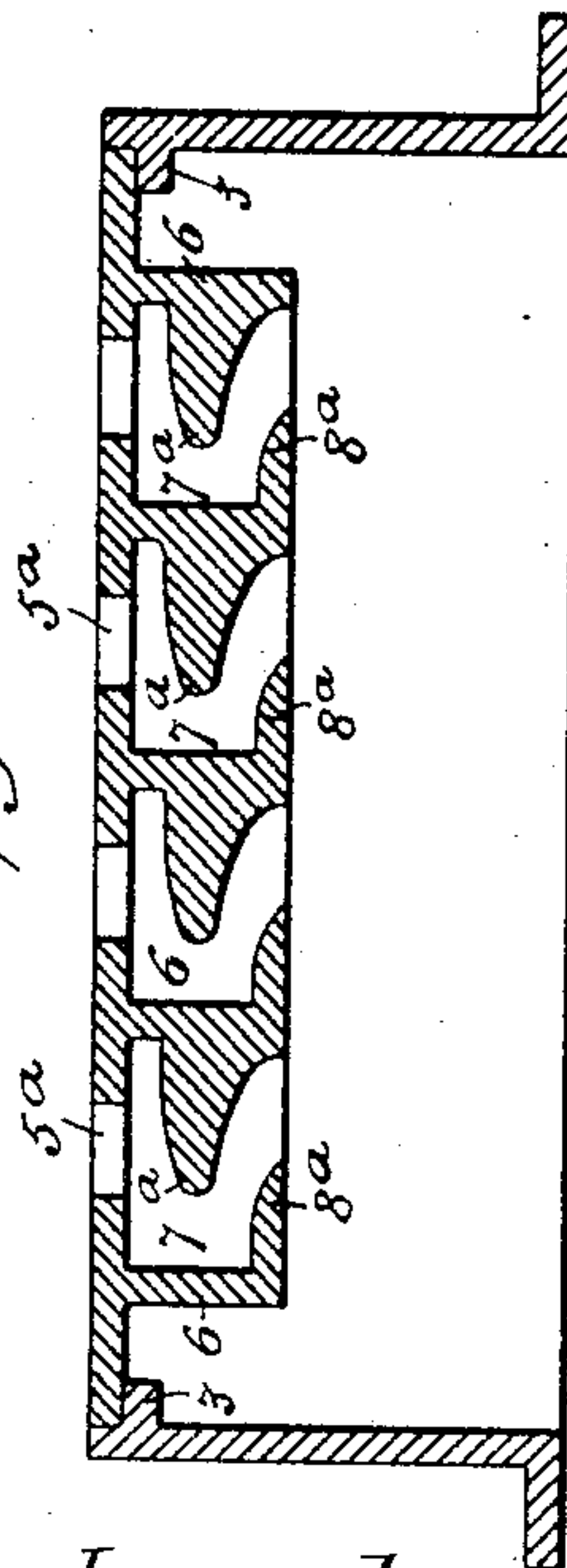


Fig. 4.



Witnesses:
Wesley H. Buck.
Louis H. Buck.

Inventor:
Daniel Gailey,
by his Attorneys,
Hudson & Hudson

UNITED STATES PATENT OFFICE.

DANIEL GAILEY, OF PHILADELPHIA, PENNSYLVANIA.

COVER FOR DRAINS, VENT-BOXES, WASHPAVES, &c.

SPECIFICATION forming part of Letters Patent No. 786,203, dated March 28, 1905.

Application filed October 1, 1904. Serial No. 226,823.

To all whom it may concern:

Be it known that I, DANIEL GAILEY, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented an Improved
5 Cover for Drains, Vent-Boxes, Washpaves, &c., of which the following is a specification.

My invention relates to covers for manholes, drain-boxes, washpaves, vent-boxes, grease-traps, &c.; and it consists in constructing such
10 cover so that mischievously-inclined persons will be unable to damage or clog the passage or opening closed by said cover or render it unfit for use by passing sticks and other similar articles into the same.

15 My invention is fully shown in the accompanying drawings, in which—

Figure 1 is a plan view of one form of cover embodying my invention. Fig. 2 is a sectional view of the same, taken on the line *a a*,
20 Fig. 1. Fig. 3 is a plan view of another form of cover embodying my invention; and Fig. 4 is a sectional view of the same, taken on the line *b b*, Fig. 3.

The cover forming the subject of my invention is more particularly applied to vent-boxes
25 for house-drains in use generally and disposed in the sidewalks of city streets near the curb. These covers are provided with holes for ventilation, which also permit drainage of
30 surface-water, and these holes present to all mischievous children an opportunity rarely neglected of passing sticks and other articles into the boxes guarded by such covers. The extent to which this practice is carried on in
35 some sections of large cities is such as to necessitate the breaking and excavation of the sidewalk and the removal of the box inclosing the trap and the subsequent placing of a new box in place. In washpaves the drainage-pipe
40 is quickly clogged up, and in all places where drainage or ventilating covers are employed they are soon clogged up by sticks intentionally placed therein or by debris carried into the same by the natural flow of surface-water.

45 By my invention I propose to overcome this condition and prevent the insertion of sticks and other articles tending to clog the drains and to fill up the gas and water valve-boxes.

50 In Figs. 1 and 2, 1 represents the metal frame or end for the wooden trunks or boxes

placed around vent-boxes, and 2 the cover for such box applied to the frame 1. This cover is supported by the usual ledges 3 and when set in place is secured by the screw 4. It is provided with apertures 5, and depending
55 from the under side of the plate are a series of ribs 6 cast integral therewith. These ribs carry lateral projections 7 and 8, which may extend the full width of the box and are disposed directly beneath the apertures, serving
60 as a means of preventing the direct through passage of sticks or similar articles, but offering no obstruction to the passage of water or air. The projections 7 guard the projec-
65 tions 8 and prevent the passage at an angle of a stick or similar article, and these two sets of projecting portions are so disposed that they form an effective barrier. The apertures 5 of the structure shown in Figs. 1 and 2 are oblong in shape, and in Figs. 3 and 4 I
70 have shown a structure having circular apertures 5^a. The character of the aperture is entirely immaterial, however. In this form of the cover there is a slight difference in the shape of the projections, both sets 7^a and 6^a hav-
75 ing rounded faces. The effect, however, is the same and either cover may be used interchangeably.

Having thus described my invention, I claim and desire to secure by Letters Patent— 80

1. In a cover for drains, vent-boxes, washpaves and the like, the combination of the upper or main surface-plate having apertures, and reversely-disposed projections arranged beneath the same and forming a zigzag pas-
85 sage.

2. In a cover for drains, vent-boxes, washpaves and the like, the combination of the upper or main surface-plate having apertures, ribs disposed on the under side of said plate, 90 and two sets of lateral projections carried by said ribs and guarding said apertures.

3. In a cover for drains, vent-boxes, washpaves and the like, the combination of the upper or main surface-plate having a series of
95 apertures, and a series of reversely-disposed projections arranged beneath said plate and forming zigzag passages with respect to the apertures in the same.

4. In a cover for drains, vent-boxes, wash- 100

paves and the like, the combination of the upper or main surface-plate having apertures, depending ribs disposed on the under surface of said plate, and lateral projections extending on both sides of said ribs and guarding said apertures.

In testimony whereof I have signed my name

to this specification in the presence of two subscribing witnesses.

DANIEL GAILEY.

Witnesses:

MURRAY C. BOYER,
WILLIAM F. BEATON.