

No, 866,633.

PATENTED SEPT. 24, 1907.

T. DUGDALE.
STRAINER FOR DOWN SPOUTS AND THE LIKE.
APPLICATION FILED AUG. 6, 1906.

FIG. 1

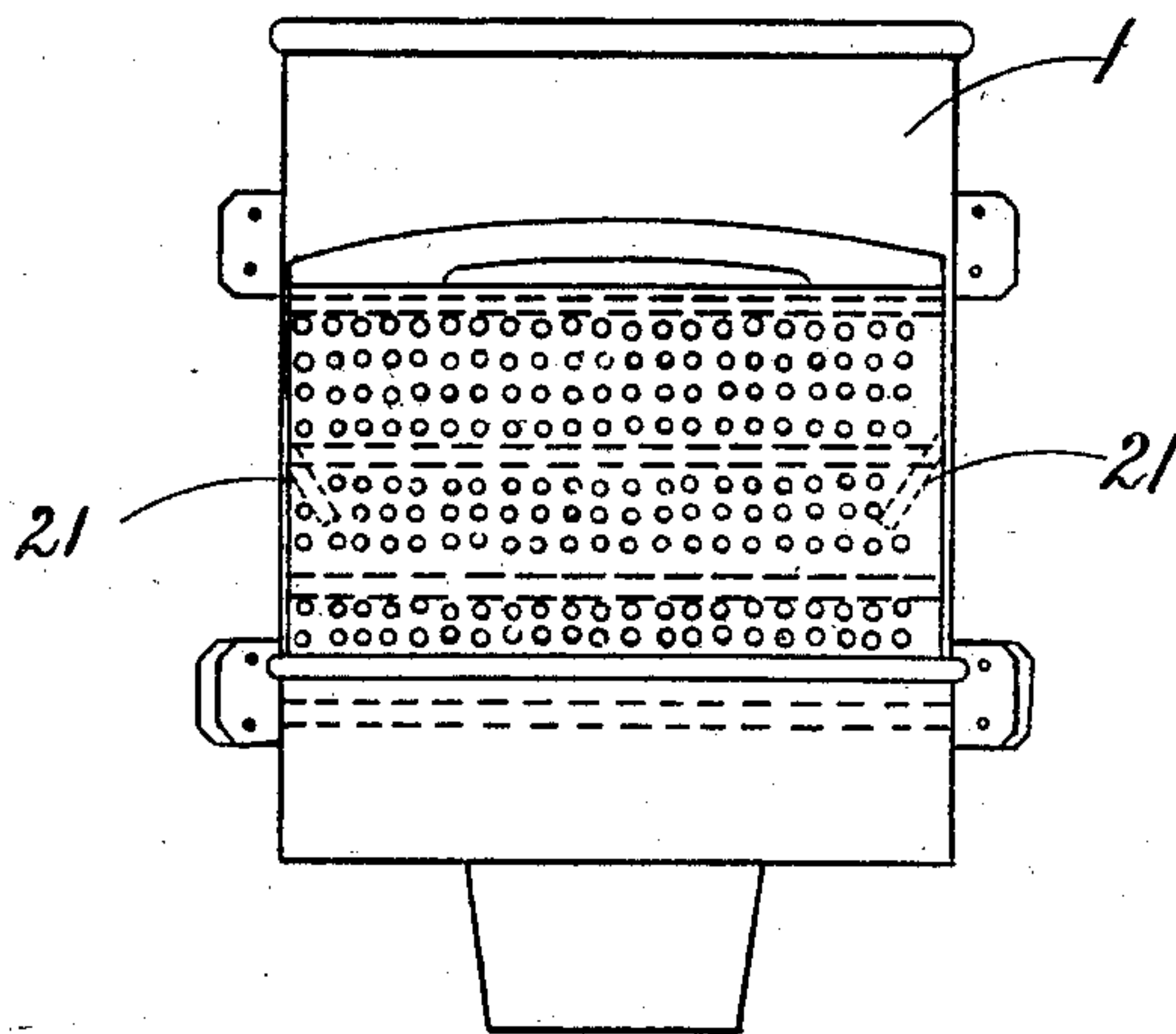


FIG. 2

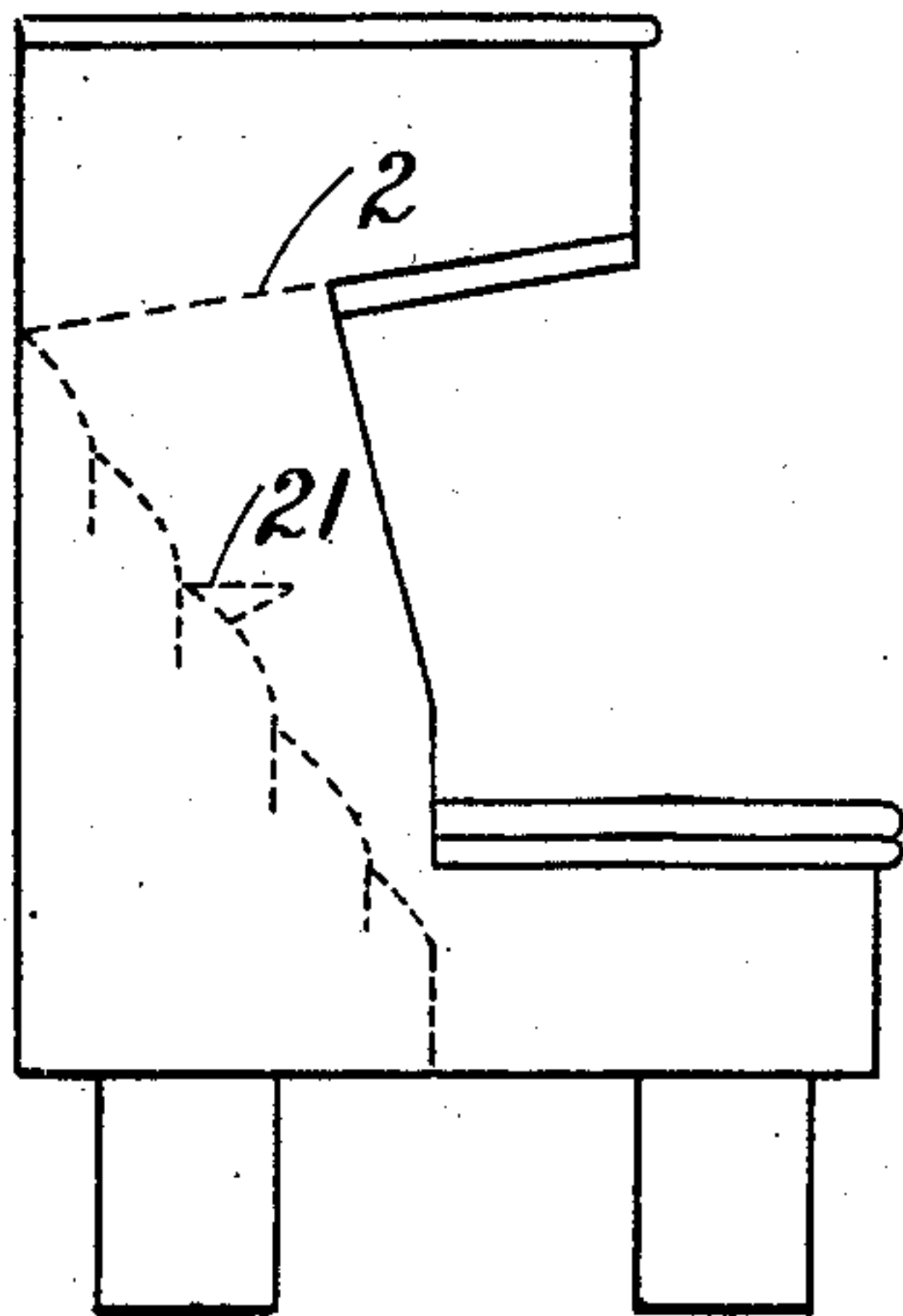
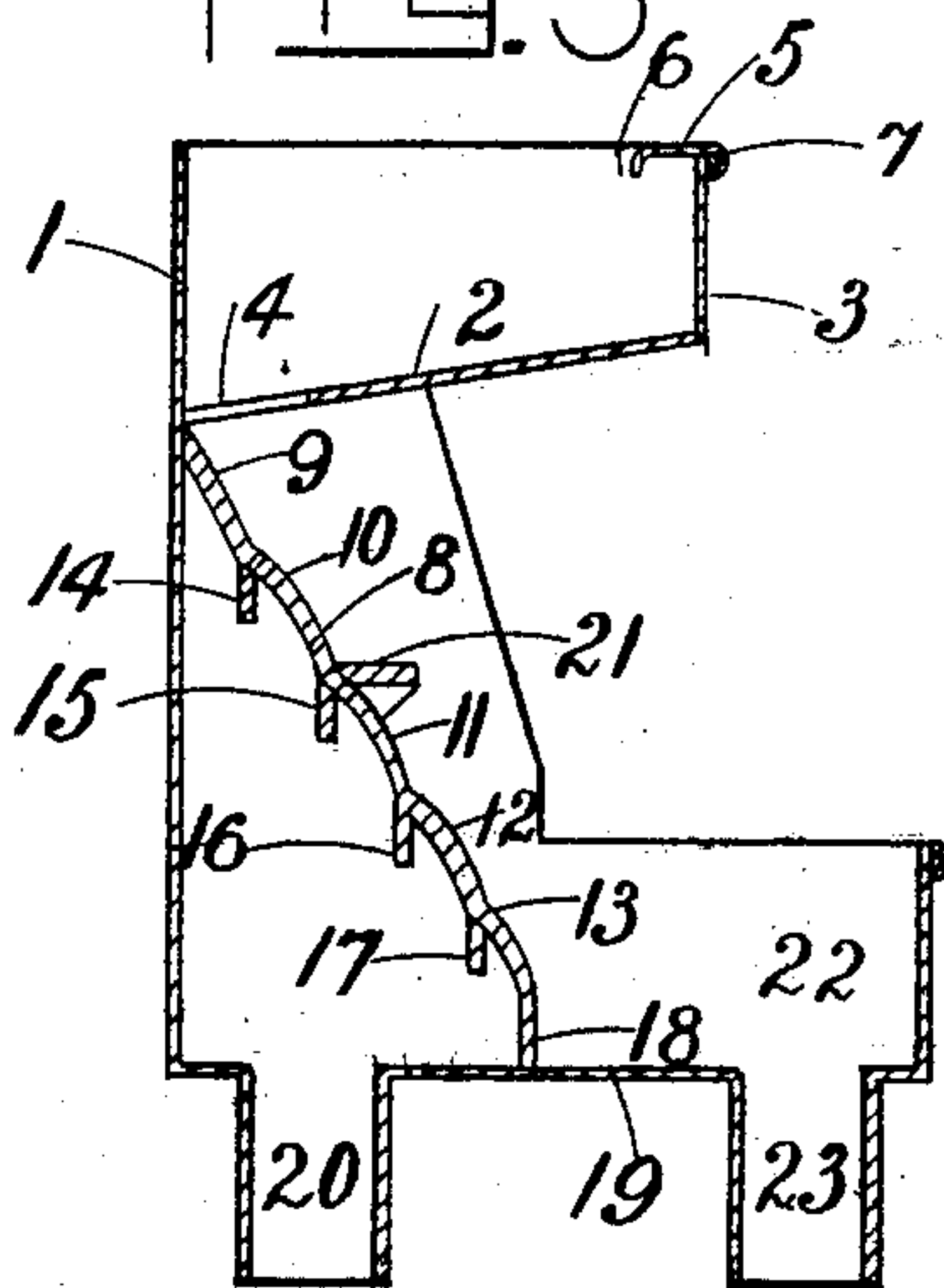


FIG. 3



WITNESSES
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UNITED STATES PATENT OFFICE.

THOMAS DUGDALE, OF WAIMATE, NEW ZEALAND.

STRAINER FOR DOWN-SPOUTS AND THE LIKE.

No. 866,633.

Specification of Letters Patent.

Patented Sept. 24, 1907.

Application filed August 6, 1906. Serial No. 329,370.

To all whom it may concern:

Be it known that I, THOMAS DUGDALE, of Waimate, Canterbury, New Zealand, plumber, have invented certain new and useful Improvements in Strainers for Down-Spouts and the Like, of which the following is a specification.

This invention is intended to prevent rubbish from roofs of buildings entering water tanks and pipes.

The apparatus may be constructed of zinc, galvanized iron or other materials and may be fixed on a building similar to an ordinary spout head or fixed on top of a tank or above as required and can be constructed to different designs or size to suit the occasion for which they may be required. The water from spout is conveyed into top of spout head onto a ledge which is fixed preferably three or four inches from top with a slight fall from front to back with an opening of preferably two inches at back. The water flows through this opening onto a perforated screen which commences preferably about level with the ledge and extends down the front of head and said screen is fixed at an angle. The screen has drips fixed on same which cause the water to flow inside of head and then through a pipe into tank. The rubbish falls from the front of screen and is caught in a trough at the bottom of screen, with pipe attached to carry away rubbish or any water that may escape.

The special feature of the invention is the inclined perforated screen having a corrugated surface with drips substantially vertical secured beneath the screen at the depressions of the corrugations. I provide also a pair of preferably triangular ledges or guides, which I have found to be of advantage when there is heavy rain, one on each side of the perforated screen with a downward slope to direct the water onto the screen. The screen with drips may also be used with advantage in many cases where liquids are required to be strained.

In the accompanying drawings illustrating this invention the same reference numbers indicate the same or similar parts.

Figure 1 is a front view of the apparatus. Fig. 2 is a side view. Fig. 3 is a vertical section.

In the drawings the spout head (1) is provided with a ledge (2) having a slight fall from the front (3) of the spout head to the back thereof with an opening (4) at the back. There is also a flange (5) at the front top edge (7) of the spout head with a downwardly curved edge (6) for the purpose of preventing water splashing

off the ledge (2) over the edge (7). A perforated screen (8) set at an angle with the back of the spout head has corrugations (9), (10), (11), (12), (13) and is provided beneath with substantially vertical drips (14), (15), (16) (17), extending from side to side of the casing and secured at the depressions of the corrugations. By this arrangement of corrugations and drips the water is led through the screen whereas otherwise a large portion of the water would be wasted.

A pair of triangular ledges (21) one at each side of the screen serve when there is heavy rain to direct the down pouring water onto the middle of the screen. This screen is preferably supported at its lowered end by an upright piece (18) secured to the base (19) of the spout head. From this base the down pipe (20) extends to the water tank.

A trough (22) is formed on the base at the bottom of the screen and this is provided with an outlet (23) to carry away rubbish and any water that may escape from going through the screen.

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

1. In a strainer, the combination with a corrugated screen of substantially vertical drips at the depressions of the corrugations, substantially as and for the purposes set forth.

2. In combination a spouthead, a ledge near the top of said spouthead extending from the front to the back thereof with an opening near the back, an inclined perforated corrugated screen extending from below said opening to the bottom of said spout head, drips secured beneath said screen at the depressions of the corrugations, a downpipe extending from the portion of said spout head closed in by said screen, and a flange at the front top edge of said spout head with a downwardly curved edge substantially as and for the purposes set forth.

3. In combination a spouthead, a ledge near the top of said spout head extending from the front to the back thereof with an opening near the back, an inclined perforated corrugated screen extending from below said opening to the bottom of said spout head, drips secured beneath said screen at the depressions of the corrugations, a downpipe extending from the portion of said spout head closed in by said screen, a flange at the front top edge of said spout head with a downwardly curved edge and a pair of triangular ledges one at each side of said screen substantially as and for the purposes set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THOMAS DUGDALE.

Witnesses:

ANDREW JOHN PARK,
JOHN RUTHERFORD PARK.