

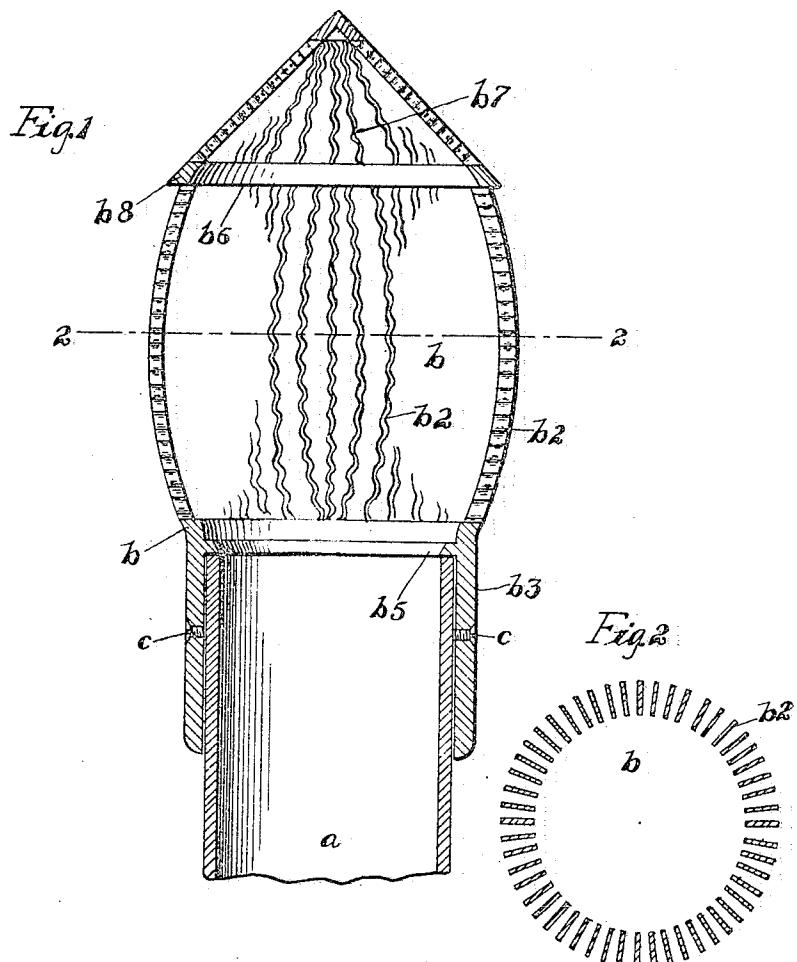
No. 809,667.

PATENTED JAN. 9, 1906.

C. M. BREEN.

GUARD FOR VENT PIPES.

APPLICATION FILED NOV. 18, 1903.



WITNESSES.

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# UNITED STATES PATENT OFFICE.

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## GUARD FOR VENT-PIPES.

No. 809,667.

Specification of Letters Patent.

Patented Jan. 9, 1906.

Application filed November 18, 1903. Serial No. 181,595.

*To all whom it may concern:*

Be it known that I, CORNELIUS M. BREEN, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Guards for Vent-Pipes, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to guards for the end of a vent or ventilation pipe; and the object thereof is to provide an improved device of this class which is designed to prevent articles of various kinds and classes from entering such pipes or being thrown thereinto; and with these and other objects in view the invention consists in a device of the class specified constructed as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my invention are designated by suitable reference characters in each of the views, and in which—

Figure 1 is a central vertical section of the end of a ventilation-pipe provided with my improved guard; Fig. 2, diagrammatic section of the guard on the line 2 2 of Fig. 1.

In the drawings forming part of this specification I have shown at *a* an ordinary vent or ventilation pipe of the class which are usually projected through the roof of a building or some other part thereof, and in the practice of my invention I provide a guard for the end of this pipe which is of the following construction: My improved ventilation-pipe guard comprises a body portion *b*, which is preferably barrel-shaped in form and which consists of a plurality of vertically-arranged ribs *b*<sup>2</sup>, which are closely adjacent and which are preferably corrugated transversely, as shown in Fig. 1. The ribs *b*<sup>2</sup> are connected at their lower ends with a pipe member *b*<sup>3</sup>, into which the end of the pipe *a* is adapted to be inserted, and the upper end of the pipe member *b*<sup>3</sup> is preferably flared outward slightly, as shown at *b*<sup>4</sup>, and is provided on the inner side thereof in the form of construction shown in Fig. 1 with an inwardly-directed flange or rim *b*<sup>5</sup>, which rests on the top of the pipe *a*, as clearly shown. The upper

ends of the ribs *b*<sup>2</sup> are connected with an annular band *b*<sup>6</sup>, above which the form of the guard is preferably conical and composed of ribs *b*<sup>7</sup>, similar to ribs *b*<sup>2</sup>. The annular band *b*<sup>6</sup> is also preferably provided with a projecting flange or rim *b*<sup>8</sup>, and the entire guard is preferably cast from any suitable metal; but it will be apparent that the said guard may, if desired, be composed of separate parts secured together in any desired manner and the form of the top portion thereof may be varied within certain limits without departing from the spirit of my invention or sacrificing its advantages.

In Fig. 1 of the drawings I have only shown a part of the ribs *b*<sup>2</sup>; but the form of the device in cross-section is clearly indicated in Fig. 2, and while I have shown and described the ribs *b*<sup>2</sup> as being corrugated transversely it will be apparent that this form of construction is not absolutely necessary, and said ribs may be placed so close together as to prevent articles of any material size from being thrown into the pipe *a* or from dropping thereinto.

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

1. A guard for vent-pipes, comprising a plurality of vertically-disposed ribs or bars connected at their lower ends with a circular bottom portion, adapted to be placed on a vent or ventilating pipe, and at their upper ends with a conical top having similar ribs or bars all of said ribs or bars being corrugated, substantially as described.

2. A guard for vent-pipes, comprising a body portion composed of a plurality of vertically-arranged flat ribs or bars, having their greatest extent in a radial direction, said ribs or bars being connected at their lower ends with a pipe member adapted to be secured to a vent or ventilating pipe and at their upper ends with a band forming the lower part of a conical top having similarly-disposed flat bars, all of said ribs or bars being corrugated, substantially as described.

3. A guard for vent-pipes, comprising a bottom portion of unbroken circular form *a*, body portion composed of flat ribs or bars having their greatest extent in a radial direction and a conical top portion having similarly-disposed flat bars, the top bars not be-

ing continuous with those of the body portion but united thereto by a ring or band to which both series of bars are connected, the outer surface of the top bars being flush with  
5 the outer surface of the said ring or band substantially as described.

In testimony that I claim the foregoing as

my invention I have signed my name, in presence of the subscribing witnesses, this 16th day of November, 1903.

CORNELIUS M. BREEN.

Witnesses:

F. A. STEWART,  
C. J. KLEIN.