(No Model.)

F. A. W. DAVIS.

STREET BOX FOR GAS OR WATER PIPES.

No. 530,581. Patented Dec. 11, 1894.

Fig. 1.

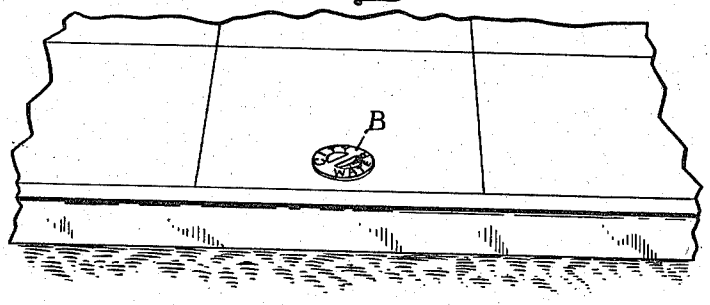


Fig. 2.

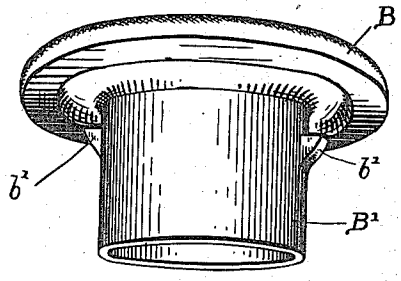


Fig. 4.

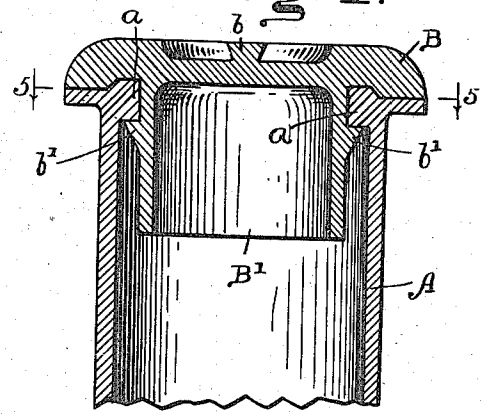


Fig. 3.

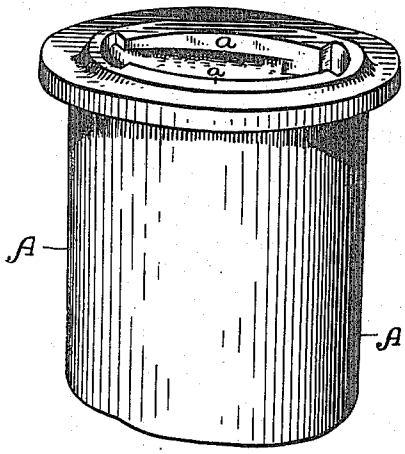
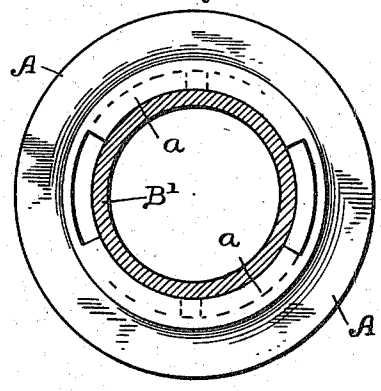


Fig. 5.



WITNESSES:

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STREET-BOX FOR GAS OR WATER PIPES.

SPECIFICATION forming part of Letters Patent No. 530,581, dated December 11, 1894.

Application filed March 23, 1894. Serial No. 504,785. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK A. W. DAVIS, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Street-Boxes for Gas and Water Pipes, of which the following is a specification.

The object of my said invention is to provide the ordinary street boxes for gas and water pipes with caps which may be securely put in place without forming any opening through the cap through which moisture might enter, thus subjecting the box to the disadvantage of freezing, with the attending difficulties of removing it when required, in cold weather.

Said invention will be first fully described, and the novel features thereof then pointed out in the claims.

Referring to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts, Figure 1 is a perspective view of a fragment of a side-walk showing the upper end of an ordinary street or curb box; Fig. 2, an under side perspective view of the cap to the box; Fig. 3, an upper end perspective view of the box when the cap is removed; Fig. 4, a central sectional view of the upper end of the box and cap when assembled together, and Fig. 5 a horizontal sectional view looking downwardly from the dotted line 5 5 in Fig. 4.

In said drawings the portions marked A represent the street or curb box, and B the cap thereto.

The upper end of the box A is provided with flanges *a* which extend around the greater portion of its inner circumference, as shown most plainly in Figs. 3 and 5, said flanges, however, being cut away for a portion on two opposite sides. The under sides of the flanges are tapered, as shown in Fig. 3, one in each direction.

The cap B is of sufficient diameter to completely cover the upper end of the box A, including the flanges thereon, so that no part of said box is exposed upwardly. Said cap has a tubular central extension part B′ which is smaller in diameter than the interior of the box A and extends down, when the cap is in place, inside said box, and upon two opposite sides of this tubular portion are wings or extensions *b′* which are adapted to engage with the under sides of the flanges *a*. In the top of the cap B′ is a cavity with a cross-bar *b* to which a wrench may be applied in opening and closing the box. The method of using this device is to drop the tubular portion B′ of the cap B into the upper end of the box, with the projections *b′* so positioned as to pass down through the points where the flanges *a* are cut away, or do not extend, and then to turn the cap with a wrench until the projections *b′* come forcibly against the under sides of the flanges *a*, which obviously holds the cap tightly and firmly in place. In opening, the cap is turned backward until the projections *b′* are below the spaces between the flanges *a*, when the cap can be easily lifted out.

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

1. The combination, in a street box for gas and water pipes, of the cylindrical box A having the interior flanges *a* tapered on their under sides and cut away or having spaces between their ends, said interior flanges being at the extreme upper end, which is continued out and forms an annular flange projecting from the exterior surface of the box proper; and the integrally constructed cap or cover B extending over the whole top of the box A and forming a complete roof therefor, and having a central downwardly extending tubular projection, smaller than the interior of said box A, and provided with small projections or wings *b′* adapted to engage with the under sides of the inclined flanges *a*, all substantially as shown and described.

2. The combination, in a street box for gas and water pipes, of the cylindrical box A having at the upper end the interior flanges *a*, said flanges being tapered on their under sides and cut away or having spaces between their ends; and the integrally constructed cap or cover B extending over the whole top of the box A and forming a complete roof therefor, and having a central downwardly extending tubular projection, smaller than the interior of said box A, and provided with small pro-

jections or wings b' adapted to engage with the under sides of the inclined flanges a, and also provided with a central exterior depression with a cross-bar running through it for the application of a wrench, whereby it may be attached to and removed from the box, substantially as shown and described.

In witness whereof I have hereunto set my hand and seal, at Indianapolis, Indiana, this 19th day of March, A. D. 1894.

FREDERICK A. W. DAVIS. [L. S.]

Witnesses:

CHESTER BRADFORD,

JAMES A. WALSH.