

No. 826,746.

PATENTED JULY 24, 1906.

A. PRIDDLE.
HATCH DOOR AND GUTTER.
APPLICATION FILED MAR. 15, 1906.

FIG. 1

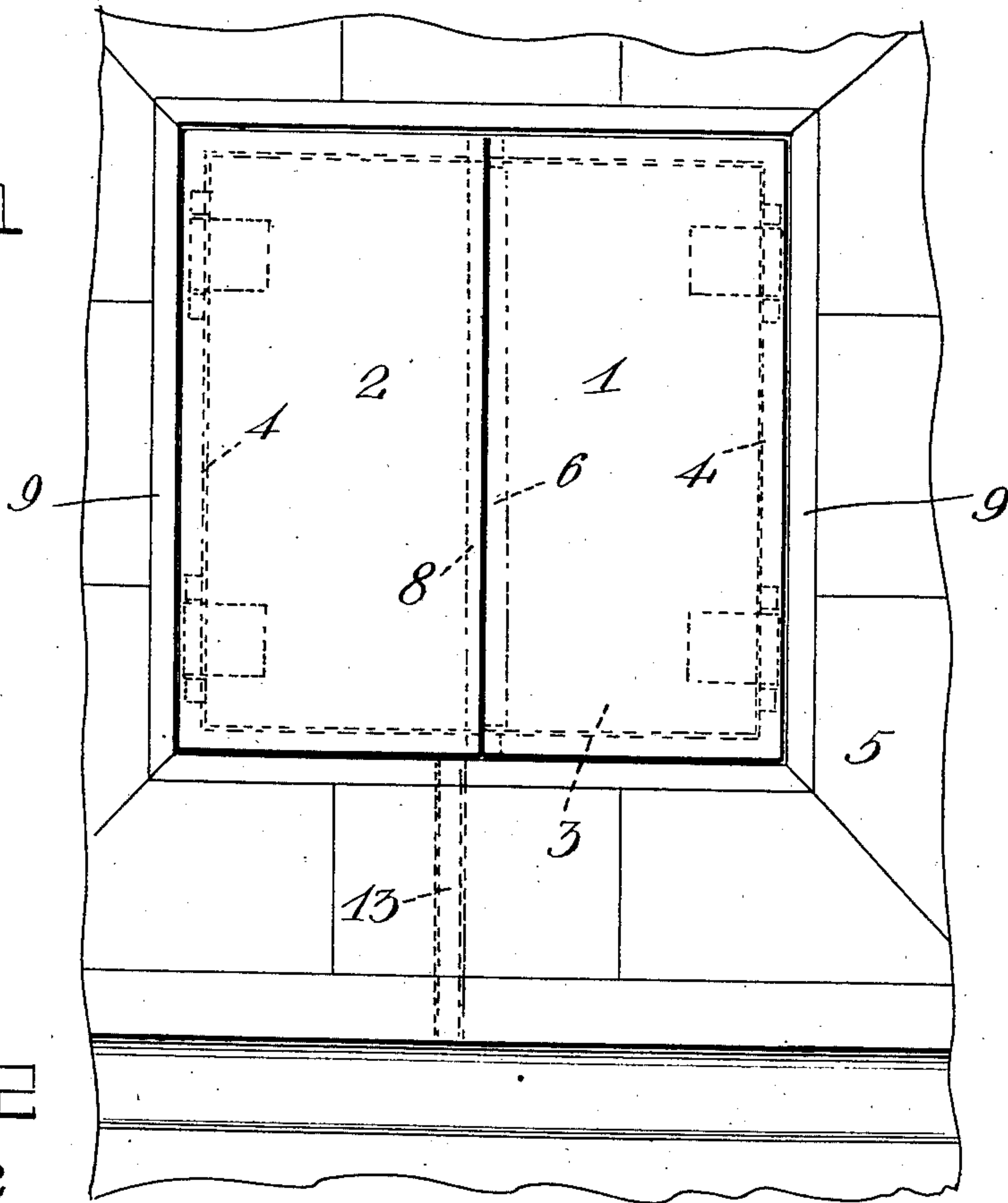


FIG. 2

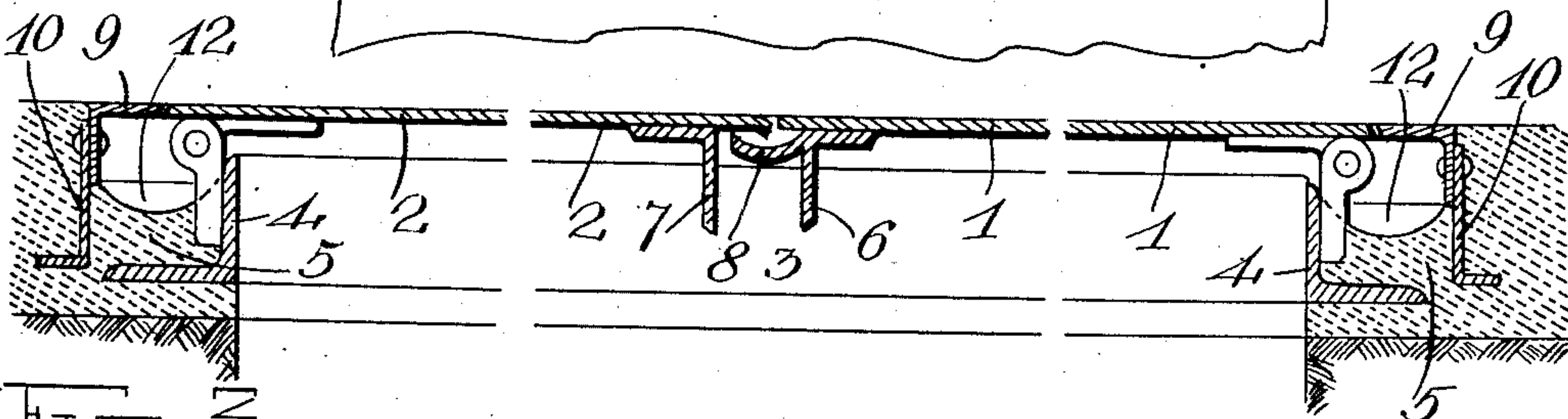
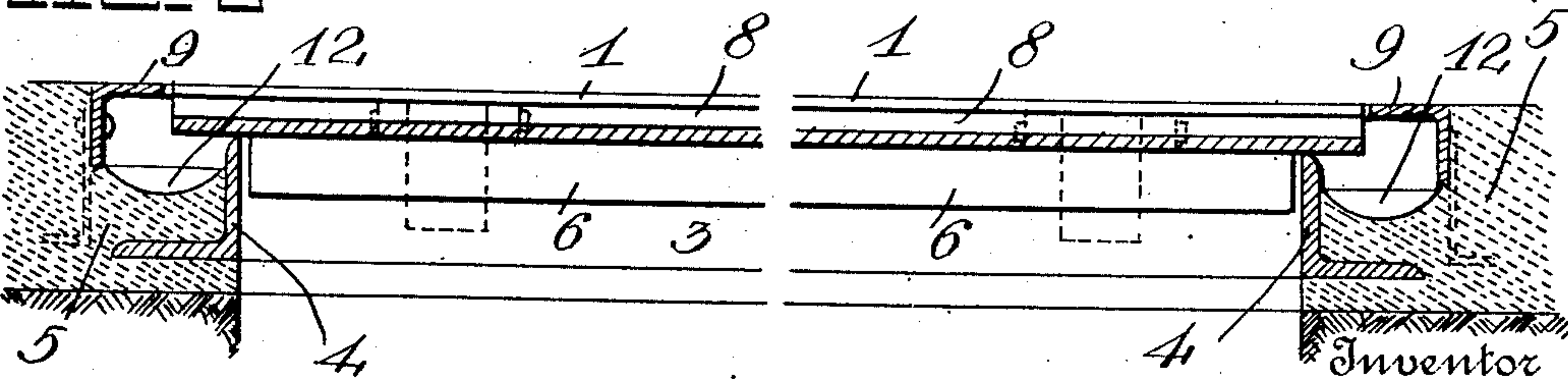


FIG. 3



Witnesses

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ARTHUR PRIDDLE, OF SAN FRANCISCO, CALIFORNIA.

HATCH DOOR AND GUTTER.

No. 826,746.

Specification of Letters Patent.

Patented July 24, 1906.

Application filed March 15, 1906. Serial No. 306,306.

To all whom it may concern:

Be it known that I, ARTHUR PRIDDLE, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Hatch Doors and Gutters; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in hatchway doors and gutters.

The object of the invention is to provide a covering for hatchways or other openings in the sidewalk or street and means whereby the water passing through the joints between said cover and its surrounding frames or the edge of the opening will be caught and prevented from running into the vault or cellar below said cover.

With the above and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a plan view of a pair of hatchway-doors to illustrate the application of the invention thereto. Fig. 2 is a vertical cross-sectional view through the doors and gutters arranged beneath the same. Fig. 3 is a vertical sectional view taken at right angles to Fig. 2 and between the meeting edges of the doors.

Referring more particularly to the drawings, 1 and 2 denote the double doors of a hatchway 3, said hatchway being provided around its upper edge with an angle-iron-supporting frame 4, to which is hingedly connected the outer side edges of the doors 1 and 2, as shown. The supporting-frame 4 is arranged and held in place by means of a cement or other plastic foundation 5. Secured to the under side of the doors 1 and 2 adjacent to their meeting edges are angle-iron brace-bars 6 and 7. On the angle-iron brace-bar 6, adjacent to the upper side of the same, is formed a laterally-projecting longitudinally-disposed gutter 8, which extends beneath the joint between the meeting edges of said bars, as shown.

Around the outer edges of the doors 1 and 2 is arranged an angle-iron-protecting frame 9, said frame being held in position by means of anchors 10, embedded in the cement foundation 5, as shown. In the cement founda-

tion 5, adjacent to the outer side of the supporting-frame 4 and immediately beneath the joint between the edges of the door and protecting-frame 9, is formed a continuous gutter 12. The gutter 8 on the door 1 is arranged to discharge the water caught thereby into the gutter 12 at either end of the doors. The gutter 12 is provided at a suitable point with a drain-pipe 13, which, if desired, may extend to the street-gutter, as shown, or to any other suitable place of discharge, thus draining the water from the cement gutter 12, as will be understood.

By providing gutters arranged as herein shown and described all surface water passing through the joints of the doors covering the hatchway will be caught and conducted to a suitable place of discharge, thus preventing the passage of said water into the cellar or vault covered by said doors.

While I have herein shown and described the invention as being applied to a pair of double doors covering a hatchway, it is obvious that the same arrangement and construction of gutters may be applied to any form of cover—such, for instance, as are used in connection with vault-lights, manholes, and the like.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention, as described by the appended claims.

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

1. The combination with a cover for hatchways or other openings, of a protecting-frame surrounding said cover, a door-supporting frame, a plastic foundation to receive said frames, and a gutter formed in said plastic foundation beneath the joint of said cover and its protecting-frame, substantially as described.

2. The combination with a supporting-frame, of a hatchway-door hingedly connected thereto, a protecting-frame surrounding said door, a plastic foundation to support said frames, anchors to secure said protecting-frame in place and a gutter formed in said

plastic foundation beneath the joints of said door and protecting-frame, substantially as described.

3. The combination with a supporting-
5 frame, of double hatchway-doors hingedly connected thereto, a protecting-frame surrounding said doors, a concrete foundation to support said frames, anchors to secure said protecting-frame in place, a gutter formed in
10 said concrete foundation beneath the joint of said doors and protecting-frame, angle-iron braces secured to the under sides of said doors adjacent to their meeting edges, a gutter

formed integral with one of the said braces and disposed beneath the meeting edges of 15 the doors, said gutter being adapted to drain into the concrete gutter and a drain-pipe connected to said concrete gutter, substantially as described.

In testimony whereof I have hereunto set 20 my hand in presence of two subscribing witnesses.

ARTHUR PRIDDLE.

Witnesses:

FRANCIS M. BIGGAM,
GEORGE A. BENCH.