

(No Model.)

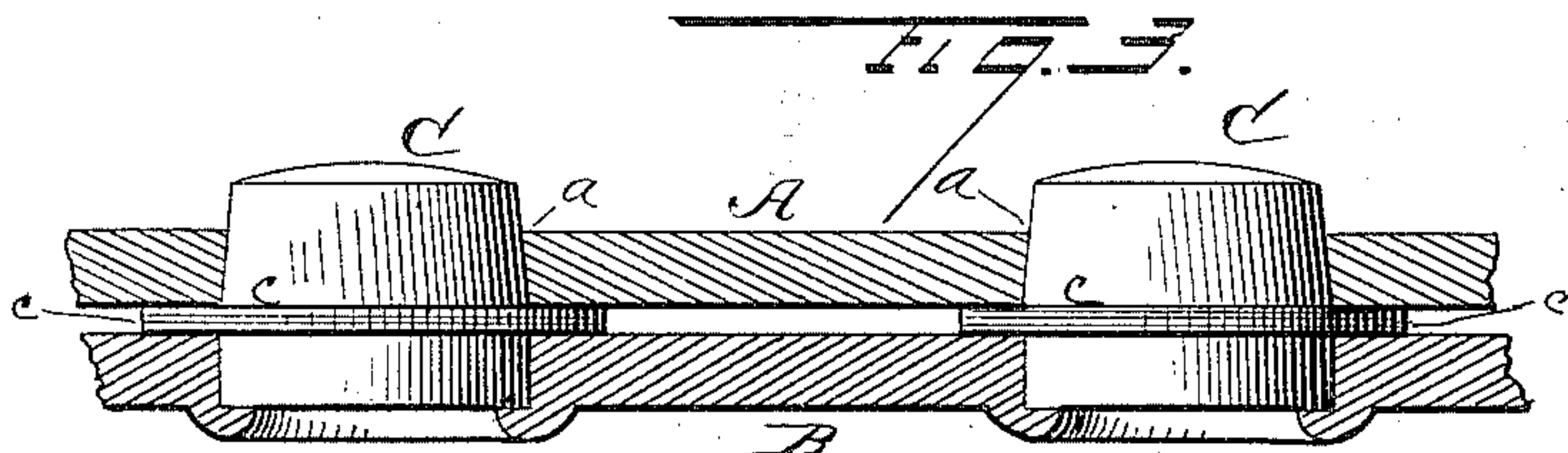
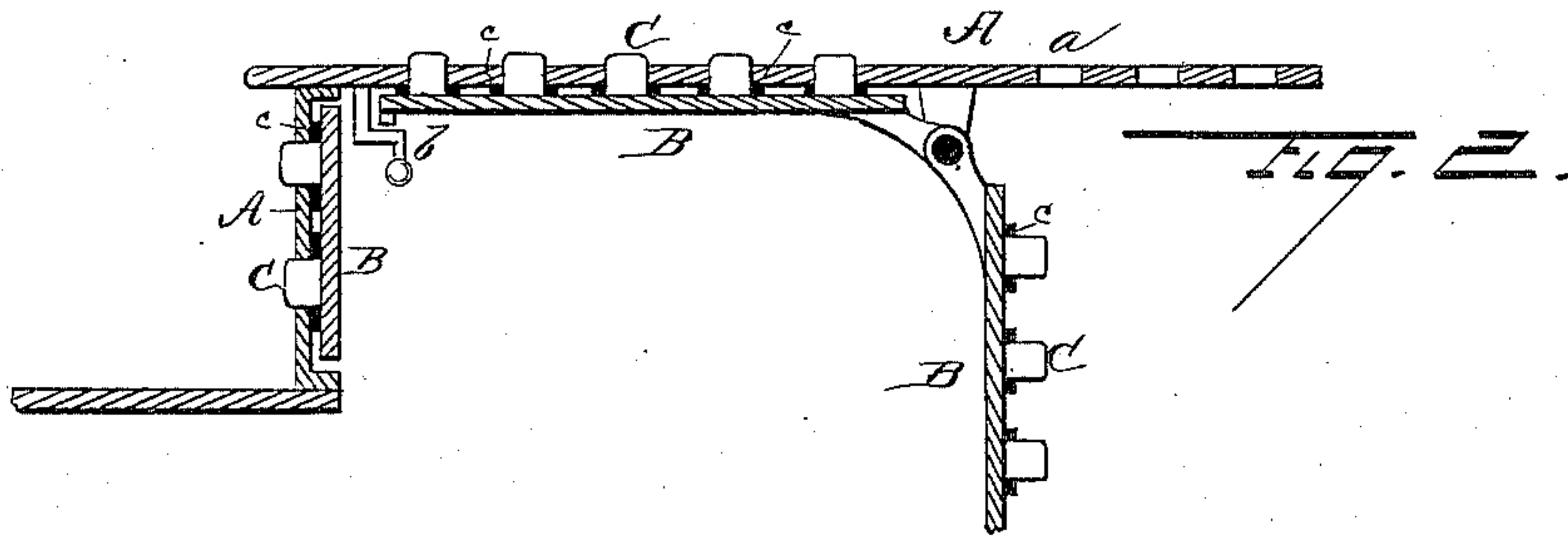
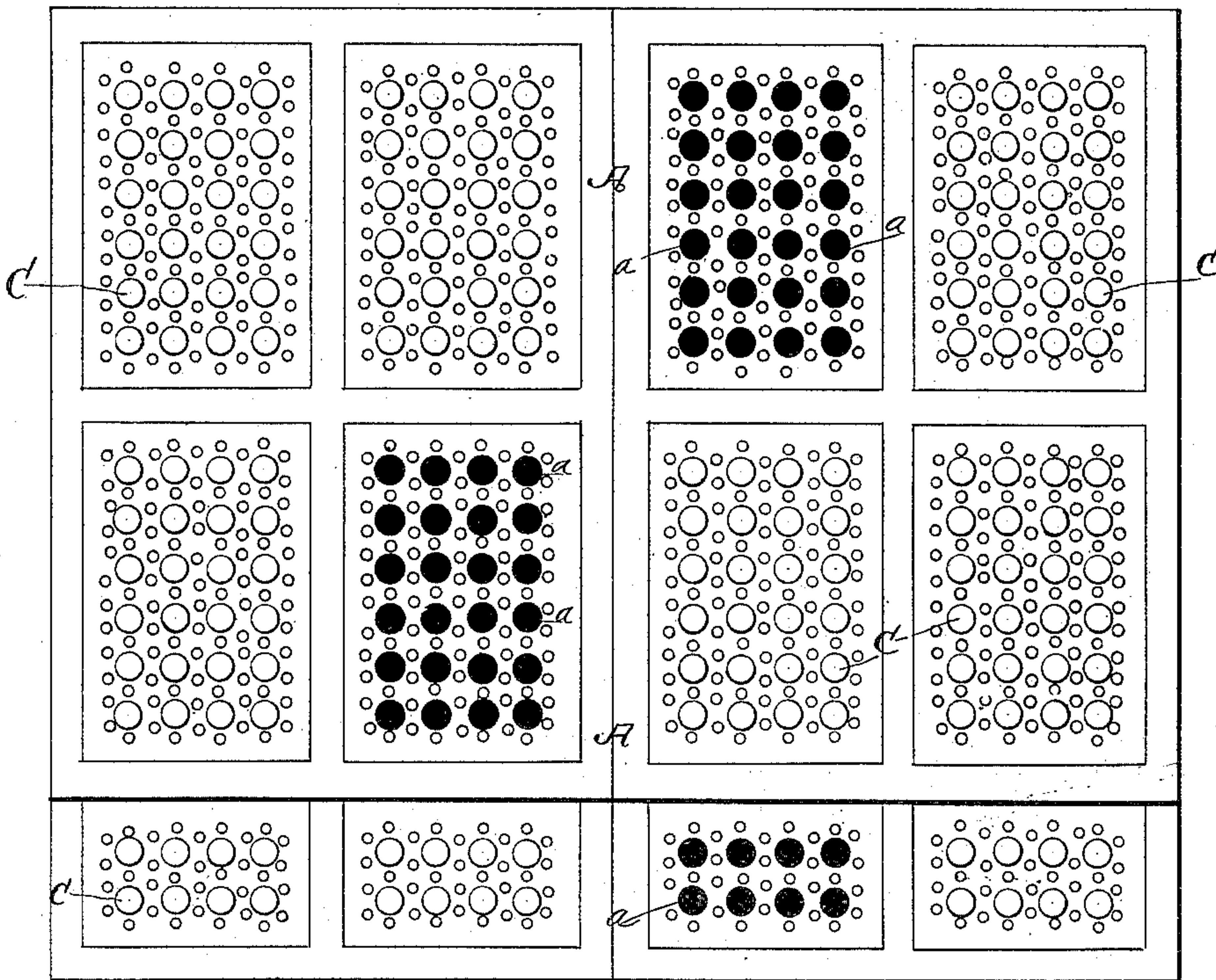
A. W. HERR.

VAULT COVER AND VENTILATOR.

No. 330,400.

Patented Nov. 17, 1885.

FIG. 1.



WITNESSES
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VAULT COVER AND VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 330,400, dated November 17, 1885.

Application filed March 30, 1885. Serial No. 160,684. (No model.)

To all whom it may concern:

Be it known that I, AUGUST W. HERR, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Vault Covers and Ventilators, of which the following is a specification, to wit:

This invention relates to vault covers and ventilators; and it consists in certain peculiarities of the construction and arrangement of the same, substantially as will be hereinafter more fully described and claimed.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the accompanying drawings, in which—

Figure 1 is a plan view of my invention. Fig. 2 is a cross-section of the same, and Fig. 3 is an enlarged section showing more fully the way in which the bull's-eyes are fitted watertight to the grating.

A represents a portion of a platform and steps, such as commonly found in front of business houses in cities. These platforms are usually formed of a roughened plate of cast-iron, provided with heavy glass bull's-eyes set permanently in them, to afford light to the vaults or space beneath, which is used for many purposes. This affords light, but no air, unless a section of the platform is hinged and can be turned back, as is often done; but this is objectionable as reducing the available walking-space upon the platform, and forming an opening into which persons are liable to fall. To remedy this, I form my device as follows:

The main portion of the frame or cast plate A is formed with a series of holes, *a*, for the reception of the glass bull's-eyes in the usual manner, and in as many of these as may be deemed advisable I secure the glass as usual. The remaining openings are left vacant, and below them, to the under side of the main casting, is hinged one or more plates, B, recessed for the reception of the bull's-eyes C, which are firmly secured therein.

The plates B are turned up against the main castings A, and secured by a latch, *b*, of any suitable form, with the glass held in the openings *a*, as in Figs. 2 and 3.

To prevent any moisture passing through, I provide each bull's-eye C with an elastic

packing-ring *c*, which, when the plates are closed, are compressed against the main casting, and effect the desired result. It will be understood that all or any desired portion of the openings in the main plates may be fitted with these removable glasses, and the hinged plates B, while made of any size, are preferably constructed small enough to cover only a portion of the plate A, and by this means the amount of air admitted may be regulated at will, while the light is in no way obstructed, and the openings are closed whenever required to exclude rain or cold.

The form of the plates A and B will of course be such as required by the use to which they are to be put, and they are used in sidewalks, platforms, steps, and various other purposes where covers or gratings are needed, as well as skylights, coal-holes, and similar places.

In Fig. 2 the step is represented also with a hinged plate and series of glasses, as well as the main body of the platform. It will not matter if it is desired to hinge a section of this platform to facilitate the passage of goods into or out of the vault, as this may be done without in any way interfering with the action of the hinged plates carrying the bull's-eyes.

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

1. In a vault cover or ventilator, a main plate or grating formed with a series of openings, in combination with one or more auxiliary plates hinged beneath the first, and provided with a series of glass bull's-eyes fitting into the openings in the main plate when closed, substantially as and for the purpose set forth.

2. In a vault cover or ventilator, a main plate formed with a series of openings, in combination with one or more auxiliary plates hinged to the first, and provided with a series of glasses fitting the openings in the main plate, and each having an elastic packing-ring around its base to exclude moisture when closed, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

AUGUST W. HERR.

Witnesses:

W. C. MCARTHUR,
A. S. PARI.