

H. JONES.  
MANHOLE COVER.  
APPLICATION FILED MAR. 9, 1911.

1,011,625.

Patented Dec. 12, 1911.

Fig. 1.

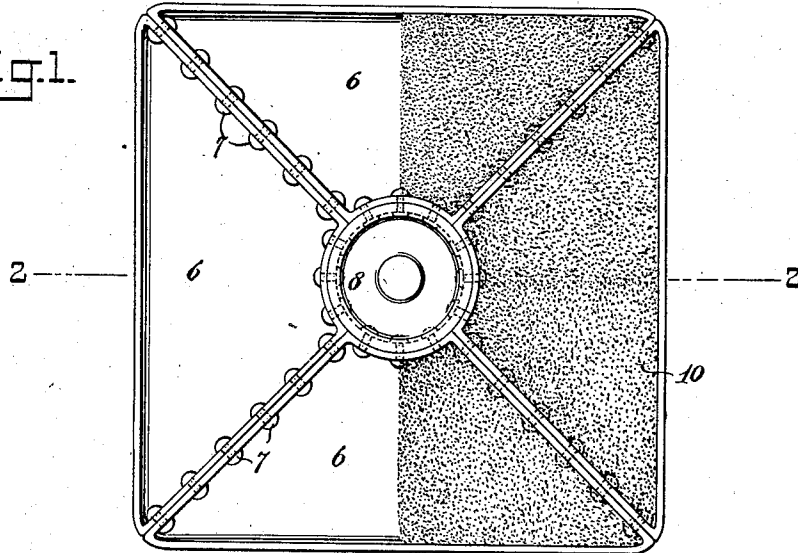


Fig. 2.

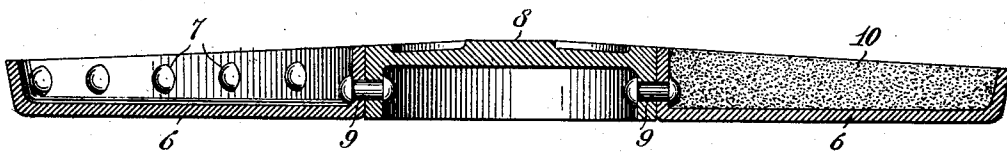


Fig. 3.

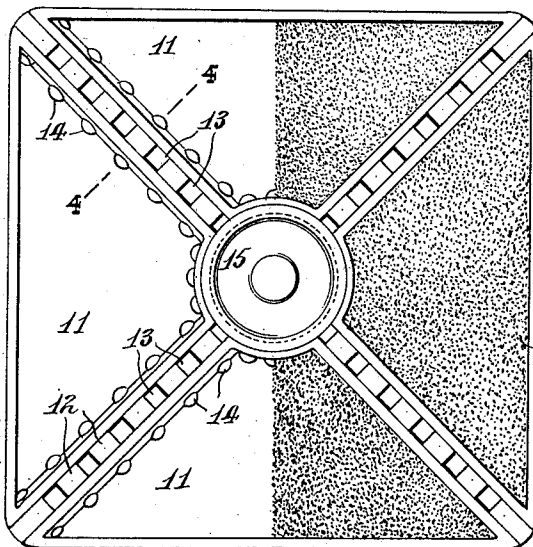


Fig. 4.

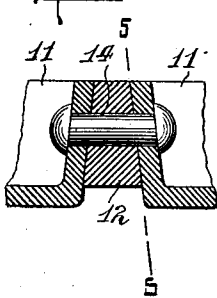
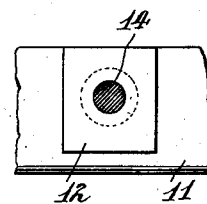


Fig. 5.



WITNESSES:  
R. N. Thurt.  
A. V. Walsh.

INVENTOR  
Harry Jones  
George Berk  
ATTORNEY

# UNITED STATES PATENT OFFICE.

HARRY JONES, OF SUFFERN, NEW YORK, ASSIGNOR TO EDWARD H. FALLOWS, OF NEW YORK, N. Y.

## MANHOLE-COVER.

1,011,625.

Specification of Letters Patent.

Patented Dec. 12, 1911.

Application filed March 9, 1911. Serial No. 613,214.

*To all whom it may concern:*

Be it known that I, HARRY JONES, a citizen of the United States, and a resident of Suffern, in the county of Rockland and State of New York, have made and invented certain new and useful Improvements in Manhole-Covers, of which the following is a specification.

My invention relates to manhole covers for closing the manholes of sewers, vaults, conduits, etc., the cover forming a part of the surface of the street or pavement beneath which the sewer, vault, or conduit is located; and the object thereof is to provide a manhole cover which may be easily and cheaply manufactured; which will be of great strength as compared with the weight of material in it; and which will have a surface of the same character as the surface of the street in which it is placed; and to provide such other improvements in and relating to manhole covers as are hereinafter disclosed.

With the objects above enumerated in view, my invention consists in the improved manhole cover illustrated in the accompanying drawing and hereinafter described and claimed, and in such modifications thereof as will be obvious to those skilled in the art to which my invention relates.

In the accompanying drawing; Figure 1 is a view showing my improved manhole cover in plan; Fig. 2 is a view showing a section upon a plane indicated by the line 2—2, Fig. 1; Fig. 3 is a view showing a slightly modified form of my invention in plan; Fig. 4 is a view showing a section upon a plane indicated by the line 4—4, Fig. 3; and, Fig. 5 is a view showing a section upon a plane indicated by the line 5—5, Fig. 4.

Referring to the drawing, 6 represents a plurality of similar segments from which my manhole cover is formed. The number of segments employed may be varied, but I prefer to employ four as shown, the separate segments being made from wrought iron or steel plates cut in proper form and flanged at the periphery as shown, whereby the segments assume a recessed or dish like form. The plates from which the segments are formed are commonly flanged by means of dies in a hydraulic or other form of press, the segments being thus of pressed steel construction as that term is commonly used.

The form of the several segments 6, is

shown in the drawing to be such that the manhole cover formed by securing the segments together, as by means of the rivets 7, is square, although other shapes of cover may be produced by employing segments of other form. A filling piece 8 formed preferably from cast metal is provided at the inner ends of the segments 6 and secured in place by means of rivets or other securing means 9.

The segments 6 are arranged so as to open upward, and they are filled with a self hardening fluid or plastic material such as concrete, as shown at 10, from which it will be seen that practically the entire upper surface of the manhole cover is of the same general character, and may be of the identical material as the surface of the street in which the cover is placed.

In Fig. 3 I have shown a manhole cover in which the segments 11 are separated slightly along their adjacent meeting edges by means of spacing blocks 12, whereby openings 13 are provided for the purpose of ventilating the space beneath the cover. The segments 11 are secured together by means of rivets or equivalent fastening means 14 which pass through the spacing blocks 12, and the inner ends of the segments are secured to a filling piece 15 as above explained. The spacing blocks 12 are preferably made tapering as shown in Fig. 4, and a filling of concrete or similar material 15 is employed as hereinbefore explained.

The manhole cover thus formed may be easily and cheaply constructed in large sizes, and is much lighter than a cast iron cover; and the recessed segments with a filling of self hardening materials result in a cover, the surface of which is of the same character as the surface of the street in which the cover is placed.

Having thus described my invention, I claim and desire to secure by Letters Patent:

1. A manhole cover comprising a plurality of recessed segments secured together to thereby form a single unitary structure, the recesses of said segments being filled with a self-hardening material; and spacing blocks interposed between adjacent edges of said segments whereby ventilating openings are formed.

2. A manhole cover comprising a plurality of recessed segments secured together to thereby form a single unitary structure, the

recesses of said segments being filled with  
a self-hardening material; tapering spacing  
blocks interposed between adjacent edges of  
said segments; and a filling piece at the in-  
5 ner ends of said segments and to which said  
inner ends are secured.

Signed at Suffern, in the county of Rock-

land and State of New York, this 27th day  
of February, A. D. 1911.

HARRY JONES.

Witnesses:

EUGENE M. GREEN,  
C. C. MORGAN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,  
Washington, D. C."