

P. G. HARSHBARGER.
CONCRETE MANHOLE OR CATCH BASIN.
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929,644.

Patented July 27, 1909.

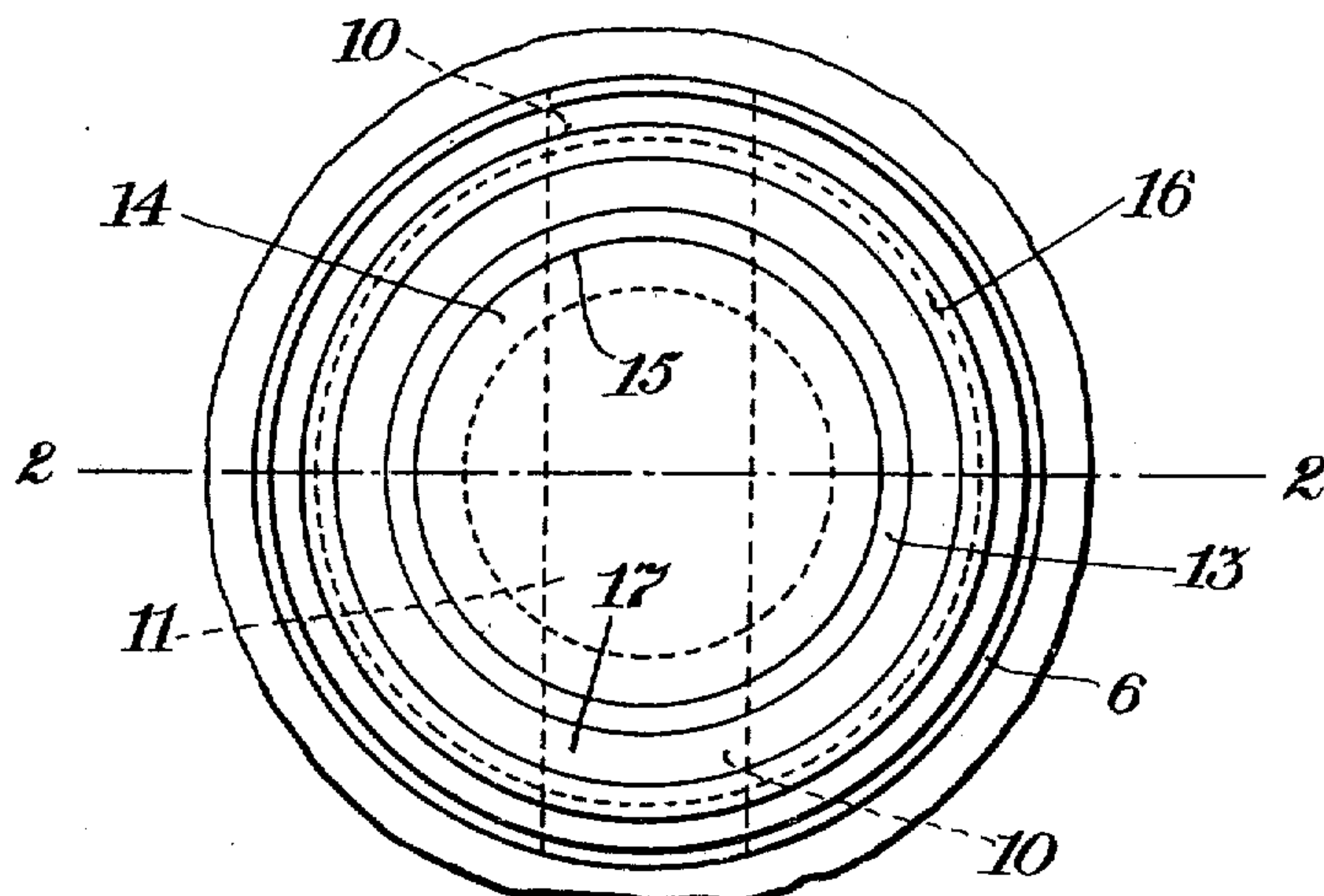


Fig. 1.

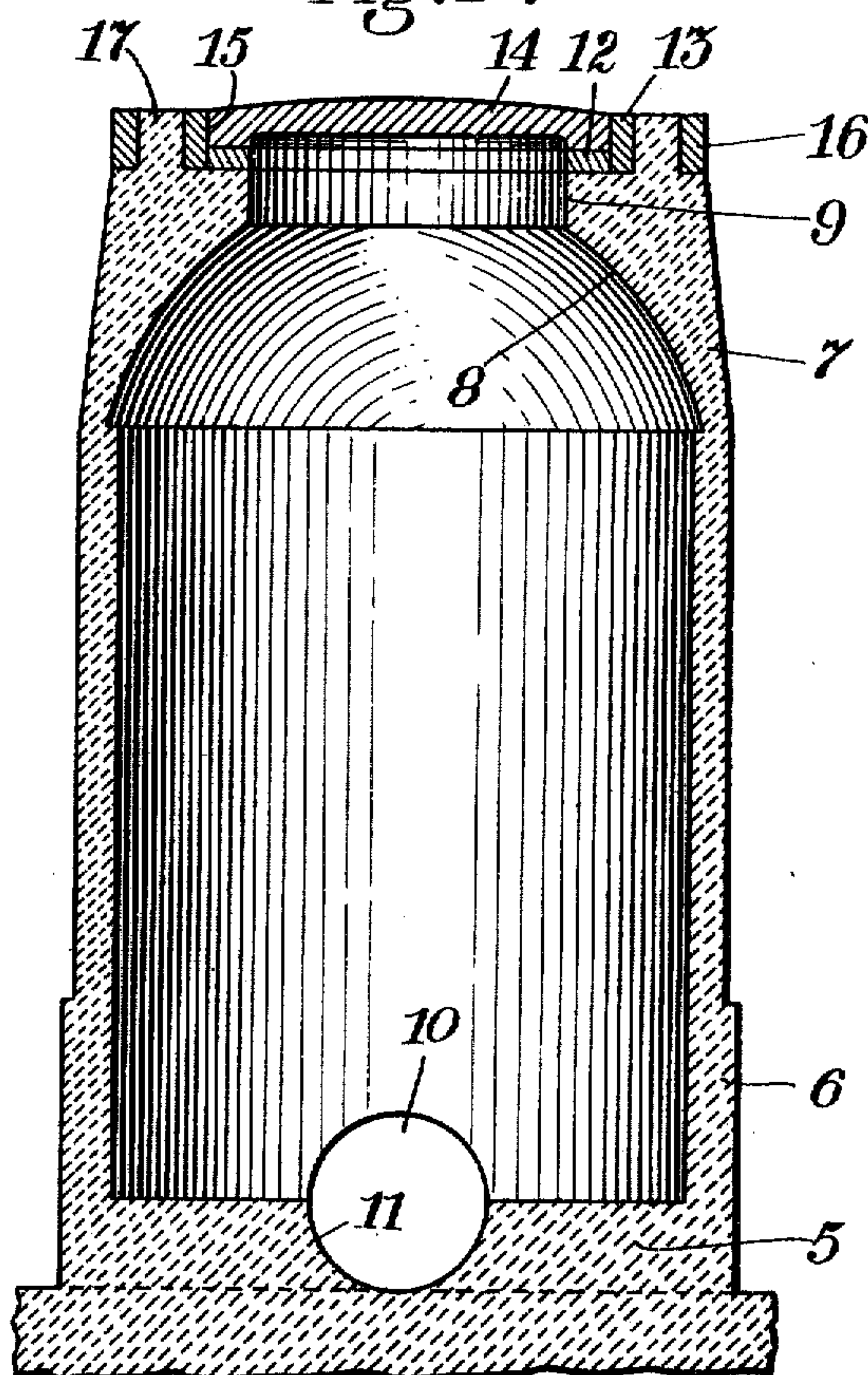


Fig. 2.

Witnesses:
Sydney E. Taft.
William B. Glass

Inventor:
Parrott G. Harshbarger
by his attorney, Charles S. Gooding.

UNITED STATES PATENT OFFICE.

PARROTT G. HARSHBARGER, OF HYDE PARK, MASSACHUSETTS.

CONCRETE MANHOLE OR CATCH-BASIN.

No. 929,644.

Specification of Letters Patent.

Patented July 27, 1909.

Application filed June 29, 1908. Serial No. 440,804.

To all whom it may concern:

Be it known that I, PARROTT G. HARSHBARGER, a citizen of the United States, residing at Hyde Park, in the county of Norfolk and State of Massachusetts, have invented new and useful Improvements in Concrete Manholes or Catch-Basins, of which the following is a specification.

This invention relates to an improved manhole or catch basin formed of concrete, preferably by means of the collapsible form such as that for which applicant has made application for Letters Patent of the United States Serial No. 419,276, filed March 5, 1908. Said manhole or catch basin is adapted to be used in connection with sewer pipes and may be located entirely beneath the surface of the ground, or may be wholly or partly above the surface of the ground, as in cases where the sewer with manholes extends across depressed portions of land, such as flats, swamps and the like.

The invention relates particularly to the construction of the top of the manhole or catch basin, wherein a ring of particular form to support the cover is employed and wherein a guard or protecting ring is also utilized, if desired, the inner ring and outer ring acting to reinforce the concrete which projects upwardly between said rings.

The invention consists in a manhole or catch basin formed and constructed as described in the following specification and particularly as set forth in the appended claim.

Referring to the drawings: Figure 1 is a plan view of my improved manhole with the cover thereon. Fig. 2 is a sectional elevation taken on line 2—2 of Fig. 1.

Like numerals refer to like parts throughout the several views of the drawings.

In the drawings, 5 is the base of the manhole, 6 the wall or body portion thereof and 7 the top. The wall 6 is preferably cylindrical and the interior of the hollow top 7 is preferably hemispherical, as at 8, and opens at the top thereof in a cylindrical hole 9. On opposite sides of the manhole at the bot-

tom thereof holes 10, 10 are provided which extend through the side walls and base of the manhole. The lower half of said holes aline with a conduit 11 forming a half cylinder extending across the bottom of the base 5. The holes 10, 10 aline with the sewer pipes which are suitably connected thereto, upon the outside of the manhole.

The top 7 of the manhole is reinforced by means of an inner ring formed of two iron rings 12 and 13, the ring 12 being a horizontal ring and the ring 13 a vertical ring. The cover 14 fits in the recess 15 formed by the two rings 12 and 13. An outer ring 16 is provided as a guard ring to take the initial shock imparted to the top of the manhole by wheels of vehicles passing thereover. The concrete is filled in between the rings 13 and 16 at 17 and these rings 13 and 16, therefore, form a reinforced structure for the concrete.

It will also be understood that the recess 15, formed at the junction of the horizontal ring 12 and the vertical ring 13, said recess being located above said horizontal ring and inside said vertical ring, is to receive and support the cover 14.

It will also be understood that while I prefer to use the outer ring 16 as a reinforcement for the concrete and to take the initial shock of wheels of vehicles passing over said manhole, as hereinbefore described, said ring 16 may be dispensed with and only the rings 12 and 13 employed without departing from the spirit of my invention.

While I have described my improved reinforcing member or members of the concrete manhole as a ring or rings and illustrated the same as being cylindrical in the drawings, I do not wish to be understood as limiting my invention to a cylindrical ring, as the same may be elliptical, rectangular or polygonal in its contour without departing from the spirit of my invention.

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

A concrete manhole comprising in its con-

struction two rings, viz., a vertical ring and a horizontal ring fitting within said vertical ring, said rings set into and adapted to reinforce the concrete at the top of said manhole,
5 said rings relatively arranged to form an annular recess adapted to receive a cover for said manhole.

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

PARROTT G. HARSHBARGER.

Witnesses:

CHARLES S. GOODING,
LOUIS A. JONES.