No. 749,148. PATENTED JAN. 12, 1904.

W. AYLWARD, JR.

CATCH BASIN.

APPLICATION FILED FEB. 27, 1903.

NO MODEL.

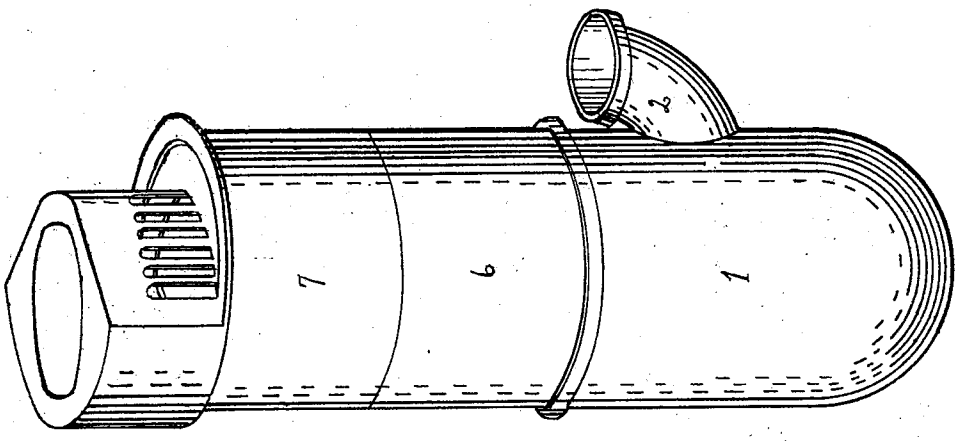


Fig. 1.

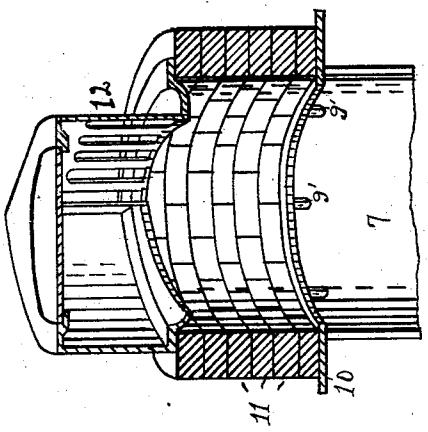


Fig. 3.

Fig. 2.

Witnesses.
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 749,148. Patented January 12, 1904.

UNITED STATES PATENT OFFICE.

WILLIAM AYLWARD, JR., OF NEENAH, WISCONSIN.

CATCH-BASIN.

SPECIFICATION forming part of Letters Patent No. 749,148, dated January 12, 1904.

Application filed February 27, 1903. Serial No. 145,441. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM AYLWARD, Jr., a citizen of the United States, residing at Neenah, in the county of Winnebago and State of Wisconsin, have invented a new and useful Improvement in Catch-Basins, of which the following is a specification.

My invention relates to catch-basins formed of several sections of cast metal of a cylindrical form, the bottom of the lower section being semiglobular or bowl-shaped and being provided with a branch outlet having a trap connected therewith for preventing the escape of sewer-gas through the catch-basin. It also relates to the combination with the upper section of an annular flange for supporting one or more courses of brick wall in order to bring the top grating at the proper height for receiving the inflow from the gutter, the improvements being illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the catch-basin. Fig. 2 is a vertical section in perspective of the catch-basin and its trap. Fig. 3 is a perspective view of a part of the upper metallic section with an annular flange mounted thereon and numerous courses of brick thereon for bringing the top grating to the proper grade for the street-gutter.

Similar numerals indicate like parts in the several views.

1 indicates the lower section of the catch-basin, having a branch 2 for receiving a cast-metal elbow 3 for forming a trap, as shown by the water-line 4 of Fig. 2, the lowest point of the outlet in said elbow being at substantially the level of the upper end of said first section. A section of vitrified or cement pipe 5 is connected with the elbow for leading to the sewer.

The joint between the branch and elbow 3 is to be cemented so as to form a tight joint and preserve the water-level necessary for the trap. Above the section 1 any desired number of sections 6 and 7 may be placed in position, the section 1 being provided with an annular flange 8 for receiving the lower end of section 6, said section 6 receiving the lower end of section 7, of which any required number, according to the depth of the catch-basin and having fingers 9 for engaging with the inside of the section below it, are adapted to be used thereon.

When required, an annular flange-piece 10, having fingers 9′, for a like purpose as fingers 9, is placed upon the top of the upper one of the sections 7, upon which any required number of courses of brick 11 are laid for bringing the gutter-grating 12 to the desired height for receiving the wash from the gutter.

Among the advantages of my cast-metal catch-basin over the usual brick ones is their lessened cost both of material and the labor of placing them in position, and also when changes in their location are required they can be removed and placed in a new position with little liability of breakage of any of their parts.

As catch-basins in use require to be cleaned of the accumulations from the street-wash at short intervals, it is desirable that when done it is entirely cleaned of said accumulations. This cannot be easily done with a flat-bottomed basin; but with a semiglobular bottom and a suitable scoop almost the entire contents can be removed.

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

1. A catch-basin consisting of several cylindrical sections of cast metal, its lower section having an annular flange around its upper end, a semiglobular or bowl-shaped bottom, a branch outlet from one side of said section, and a cast-metal elbow, said outlet and elbow forming a trap, the lowest point in an outlet of said elbow being substantially upon a level when placed in position, with the upper end of said section, one or more sections above said lower section, the lowest of which is adapted to be held in position by the annular flange of said lower section, means for holding succeeding sections in position and a suitable flange having a vertical grating mounted upon the upper end of the catch-basin, substantially as described.

2. In a catch-basin, the lower portion of which is formed of cylindrical sections of cast

metal, the combination therewith of an annular flange mounted upon the upper end of the upper one of said sections, means for holding it in position thereon, one or more courses of brick laid upon said flange and forming a wall of substantially the same diameter as said cylindrical sections, and a suitable flange having vertical gratings thereon, mounted upon said wall, substantially as set forth.

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Witnesses:
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