Nov. 6, 1923. 1,473,551

L. GSCHWIND

DIRECT SEWER INLET

Filed Aug. 10, 1922

FIG. 1.

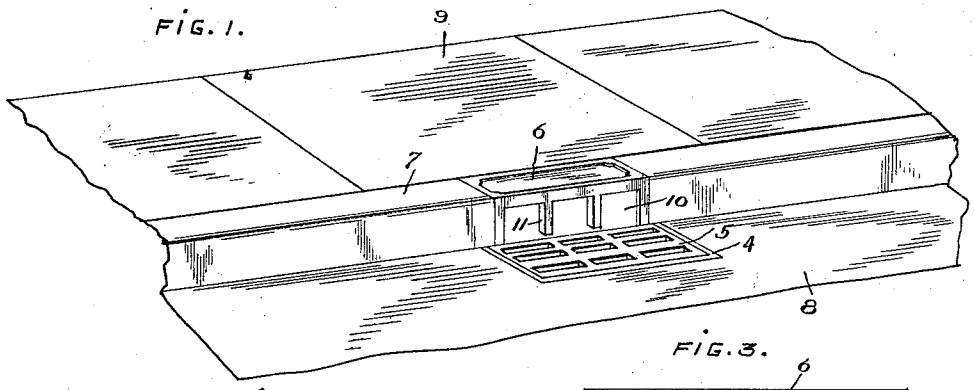


FIG. 3.

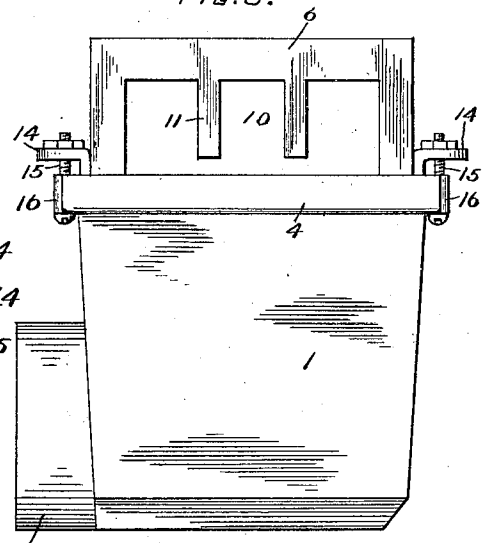


FIG. 2.

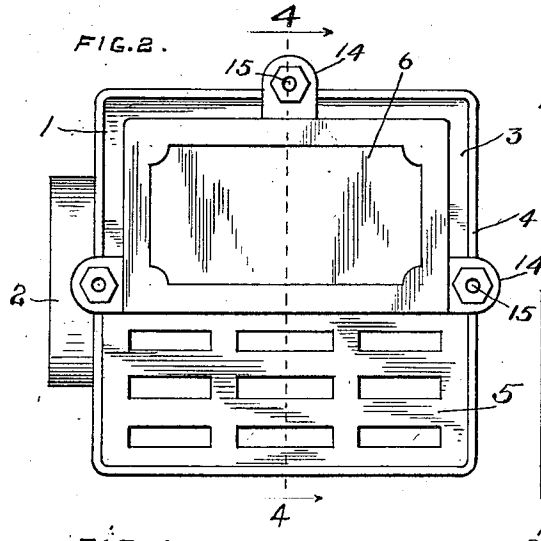


FIG. 4.

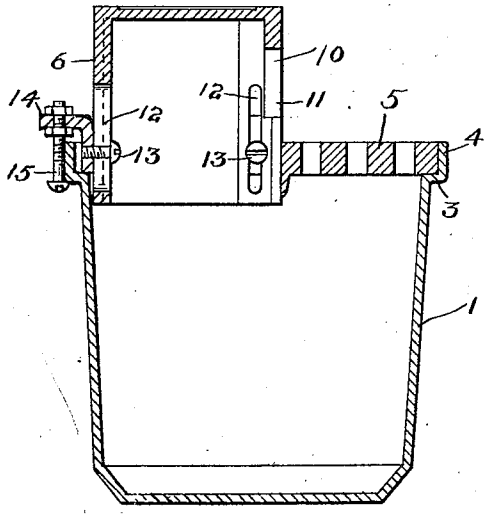
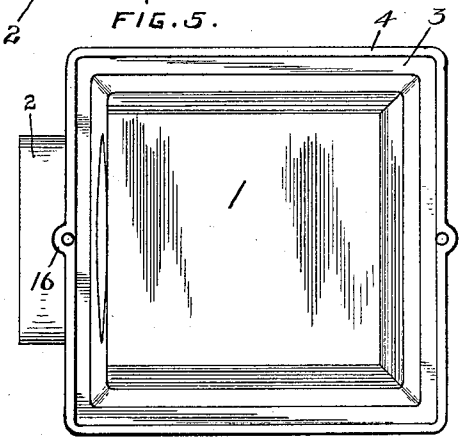


FIG. 5.



INVENTOR

LEON GSCHWIND

BY

ATTORNEY

Patented Nov. 6, 1923. 1,473,551

UNITED STATES PATENT OFFICE.

LEON GSCHWIND, OF YOUNGSTOWN, OHIO.

DIRECT-SEWER INLET.

Application filed August 10, 1922. Serial No. 580,988.

To all whom it may concern:

Be it known that I, LEON GSCHWIND, a citizen of the United States, residing at Youngstown, in the county of Mahoning and State of Ohio, have invented certain new and useful Improvements in Direct-Sewer Inlets, of which the following is a specification.

This invention relates to sewer inlets and particularly to the class known as a direct sewer inlet, and the prime feature of the invention is in so constructing and arranging the inlet that it may be made of metal in its entirety.

A further feature of the invention is in so constructing the body or bowl of the inlet that the head or curb box forming portion thereof may be adjusted for admitting water or the like into the inlet from any of the four sides thereof without changing the position of the bowl.

And a further feature of the invention is in so attaching the head or curb box forming portion to the bowl that the same may be adjusted to various heights in accordance with the height of the curb with which the head portion co-operates.

Other objects and advantages will be hereinafter more fully set forth and pointed out in the accompanying specification.

In the accompanying drawings,

Figure 1 is a perspective view of a portion of a side walk and street surface with the inlet applied to use,

Figure 2 is a top plan view of the inlet,

Figure 3 is an elevation thereof,

Figure 4 is a sectional view as seen on line 4—4, Figure 2, and

Figure 5 is a top plan view of the bowl portion of the inlet with the head or curb box removed.

Referring to the drawings, 1 indicates the body or bowl portion of the inlet, the upper or open end of which is preferably formed square in general outline, said bowl having an outlet 2 on one face thereof. Formed integral with the upper edge of the bowl is a laterally extending flange for forming a shoulder 3 and extending upwardly from the shoulder is a vertical flange 4, said shoulder and flange forming a retainer for a grate bar 5 which covers substantially one-half of the surface at the upper end of the bowl. Co-operating with the grate bar 5 is a head or curb box 6 which projects upwardly above the bowl 1 and forms a part of the curbing 7, while the upper edge of the flange 4 and the upper face of the grate bar 5 register substantially flush with the street surface 8, the top of the head 6 being so positioned that it will be flush with the surface of the side walk 9 and the upper edge of the curb 7.

The front wall of the head or curb box 6 is provided with an opening 10 through which water or the like may enter the bowl 1, and if preferred fingers 11 may be formed integral with the top portion of the head 6 so as to prevent trash and the like from entering the bowl. In the event, however, it is not desired to have the fingers they may be readily removed by breaking them off by delivering a blow thereagainst the fingers readily severing from the fact that the head or curb box is preferably constructed of cast metal.

In view of the fact that curbs are built of different heights the head or curb box 6 is adjustably connected with the bowl so that it may be readily raised or lowered to conform to the height of the curb. The rear and end walls of the head have elongated slots 12 through which are extended clamping screws 13. The outer ends of the clamping screws are engaged with clips 14 which are substantially inverted L-shape, the lower ends of the clips preferably resting on the shoulder 3, while the upper ends thereof extend outwardly over the upper edge of the flange 4. Bolts 15 are extended through the horizontal portions of the clips 14, the bolts at the ends of the head 6 preferably extending through sockets 16 formed on the flange 4, while a bolt at the rear of the head 6 extends along the outer face of the flange 4 so that the head of the bolt 15 will engage the under face of the shoulder 3.

By forming the upper end of the bowl 1 square, the head or curb box 6 may be shifted for admitting water into the bowl from any side thereof, without necessitating the changing of the position of the bowl and likewise the grate bar 5 will fit in the space forwardly of the head or curb box 6 at whatever position the head or curb box may be placed.

In applying the inlet to use, the bowl portion 1 is properly positioned below the street surface and connected with the sewer, after which the height of the curbing is ascertained and the head or curb box 6 placed over the bowl and adjusted so that the top of the head or curb box 6 will be flush with the

upper surface of the curbing and the side walk, and after the adjustable parts between the head or curb box and the bowl have been properly locked together the street surface and curbing are built around the bowl and that portion of the head projecting above the bowl, the position and co-operation of the parts of the inlet with the street surface and the side walk and curbing being shown in Figure 1 of the drawings.

This form of inlet may be very cheaply constructed and readily applied to use and will be practically indestructible as all parts are of metal, and in the event the exposed portions of the inlet become broken they may be readily replaced as all are detachably connected to the bowl portion of the inlet.

Furthermore, by adjustably and interchangeably connecting the head portion of the inlet with the bowl portion a universal structure will be provided, as the same structure may be installed at either side of the street and the position of the outlet 2 may be positioned to attach with the sewer from any angle, parallel with or at right angles to the direction of travel of the street.

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

1. In a sewer inlet, a bowl portion having a shoulder adjacent the upper edge thereof, a head adapted to fit over a portion of said bowl, clips attached to said head, means for adjusting the clips on the head for regulating the height of the head, and means carried by said clips adapted to interlock with said shoulder at whatever position the head may face on said bowl, substantially as set forth.

2. In a sewer inlet, a bowl portion having a shoulder adjacent the upper edge thereof, a head adapted to fit over a portion of said bowl and having slots therein, inverted L-shaped clips engaging the said shoulder and having means associated with their vertically extending portions for adjustably engaging the slots of the said head, and other means for securing the horizontal portions of the clips in fixed relationship with the said bowl, substantially as set forth.

3. In a sewer inlet, a bowl portion having a shoulder adjacent the upper edge thereof, a head adapted to fit over a portion of said bowl and having slots therein, inverted L-shaped clips engaging the said shoulder and having means associated with their vertically extending portions for adjustably engaging the slots of the said head, and other means for securing the horizontal portions of the clips in fixed relationship with said bowl at whatever position the head may face on said bowl, substantially as set forth.

4. In a sewer inlet, a bowl portion having a shoulder adjacent the upper edge thereof, a head adapted to fit over a portion of said bowl and having slots therein, inverted L-shaped clips engaging said shoulder to support the head thereon, clamping means associated with the said slots for adjustably supporting the head from one leg of said clips, and other means associated with the other leg for securing the clips to the bowl, substantially as set forth.

In witness whereof I have hereunto set my hand and seal at Youngstown, Ohio, this 7th day of July, A. D. nineteen hundred and twenty-two.

LEON GSCHWIND. [L. S.]

Witnesses:

CARL E. GSCHWIND,

HENRY CHURCH.