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F. BARKER.

INLET STRUCTURE FOR CATCH BASINS.

APPLICATION FILED OCT. 7, 1904.

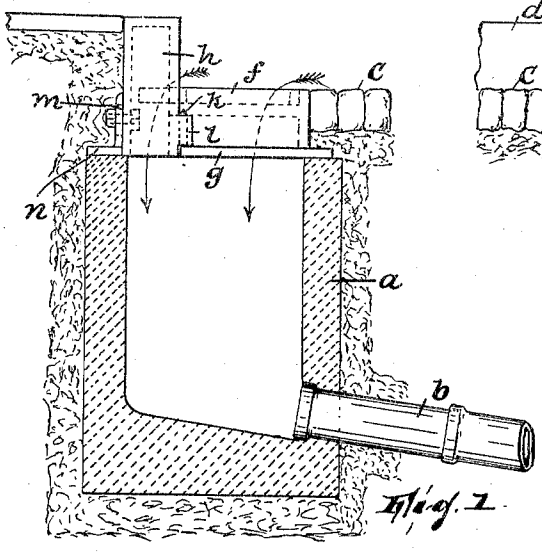



Fig. 1.

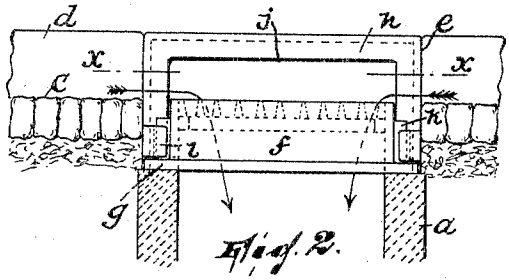



Fig. 2.

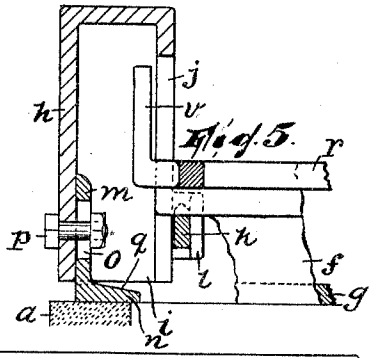



Fig. 5.

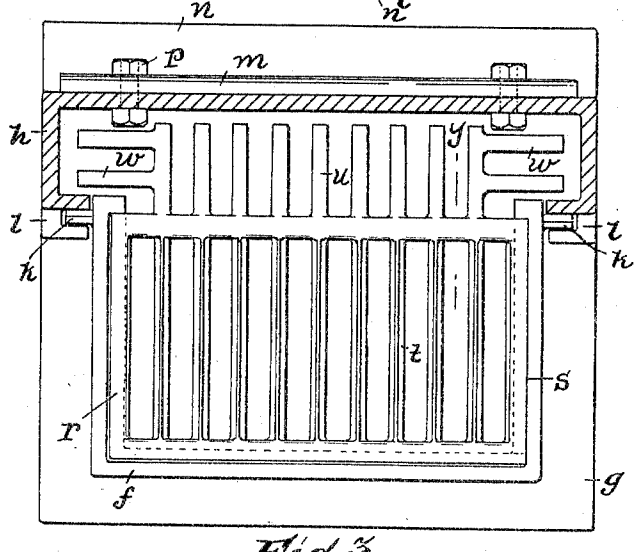



Fig. 3.




Fig. 4.

WITNESSES:

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No. 783,740. Patented February 28, 1905.

# UNITED STATES PATENT OFFICE.

FRED BARKER, OF PATERSON, NEW JERSEY.

## INLET STRUCTURE FOR CATCH-BASINS.

SPECIFICATION forming part of Letters Patent No. 783,740, dated February 28, 1905.

Application filed October 7, 1904. Serial No. 227,541.

*To all whom it may concern:*

Be it known that I, FRED BARKER, a citizen of the United States, residing in Paterson, in the county of Passaic and State of New Jersey, have invented certain new and useful Improvements in Inlet Structures for Catch-Basins; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The invention relates to inlet structures for catch-basins or cesspools whose receiving openings or mouths are arranged in the gutters of streets having curbing; and it contemplates certain improvements hereinafter set forth having for their principal object to make such structures adjustable to various heights of curbing.

To this end my invention consists in a catch-basin-inlet structure comprising two separate parts, one of which rests flush with the gutter-surface and the other of which stands in a break or recess in the curb flush with both the top and vertical faces thereof, so arranged and constructed as to resist displacement from ordinary causes after installation and yet be susceptible of adjustment during installation, particularly to suit various heights of curbing.

I have fully illustrated my invention in the accompanying drawings, wherein—

Figure 1 is a view showing a catch-basin in section and my improved inlet structure in side elevation. Fig. 2 is a view showing the improved inlet structure in front elevation. Fig. 3 is a view, partly in plan and partly in horizontal section, on the line $x$ $x$ in Fig. 2 of said inlet structure, showing one form of grating or strainer. Fig. 4 is a sectional view on the line $y$ in Fig. 3; and Fig. 5 is a view of the improved inlet structure in vertical section, showing a part of the farther side of the strainer or grating supporting frame broken away and also showing a modified form of strainer or grating.

$a$ in the drawings is a catch-basin, and $b$ its outlet-pipe.

$c$ indicates the street-surface, and $d$ the curb, the latter having a break or recess therein, as at $e$.

$f$ is a three-walled rectangular body having formed about its base a supporting-flange $g$, whereby it is sustained on the brink or sill of the catch-basin, with its top flush with the street or gutter surface and its open side toward the curb. $h$ is another rectangular body which is set in the curb, with its top and front faces flush with the corresponding faces of the curb. The bottom side of this body is removed, forming an opening $i$, and its front side is provided with another opening, $j$, which receives the open side of the body $f$, as best seen in Fig. 3. The part $f$ fits snugly into the opening $j$ in the part $h$, and thus lateral play of either part on the other is prevented. Part $f$ is provided adjacent the part $h$ with two alined outwardly-extending lugs or guides $k$, and these are received by two corresponding opposed grooved guideways $l$, arranged vertically on the front of the part $h$. This arrangement permits vertical movement of the parts $f$ and $h$ the one on the other, but prohibits all other play.

I provide a supporting attachment for the part $h$, whereby the latter may be sustained at any desired height, according to the height of the curb. This is in the form of a plate $m$, having a base or flange $n$, which rests on the brink or sill of the catch-basin. The plate is vertically slotted, as at $o$, and it receives in said slots bolts $p$, which may be carried by the part $h$, or the bolts may be mounted in the plate and the slots be formed in the part $h$, as will be obvious. This supporting attachment may be placed either outside of the part $h$, as shown in Fig. 1, or on the inside, as in Fig. 5. If inside, the top surface of its base $n$ should be beveled off, as at $q$, for drainage.

$r$ is the grating or strainer. This seats in a recess $s$, formed in the top of the part $f$. In order to prevent unduly-large bodies finding their way into the catch-basin at the back of the strainer, the bars $t$ of the latter may be extended back into the part $h$ of the inlet structure, as shown in Figs. 3 and 4 at $u$, or vertical bars $v$ may be formed at the back of the strainer to approximately the height of

the opening *j* in part *h*. In Fig. 3 the two endmost bars *u* are shown as each carrying two other bars *w*, disposed at right angles thereto and partially closing off the opening that would otherwise be left at this point at the two ends of the part *h*.

Constructed as above described the inlet structure can be made to adapt itself to various heights of curbs by first setting in place the body *f*, then the body *h*, with the latter's supporting attachment resting on the catch-basin sill, and then adjusting the height of the body *h* to suit the elevation of the curb by manipulating the bolts *p*.

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

1. In a catch-basin inlet structure, the combination of two supporting parts adapted to be themselves supported independently of each other, and one of them constituting a hollow horizontally-arranged grating-supporting part, and a third vertically-arranged hollow part open on the side toward said other hollow part and also at the bottom and adjustably sustained by said supporting parts, substantially as described.

2. In a catch-basin inlet structure, the combination of two supporting parts adapted to be themselves supported independently of each other, and one of them constituting a hollow horizontally-arranged grating-supporting part, and a third vertically-arranged hollow part open on the side toward said other hollow part and also at the bottom and guided for vertical adjustment in said other hollow part, and means for adjustably securing said third part to the other supporting part, substantially as described.

3. In a catch-basin inlet structure, the combination of two supporting parts adapted to be themselves supported independently of each other, and one of them constituting a hollow horizontally-arranged grating-supporting part, and a third, vertically-arranged, hollow part, open on the side toward said other hollow part and also at the bottom, said grating-supporting part and the third part having the one guides and the other vertical guideways receiving said guides, and means for adjustably securing said third part to the other supporting part, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 5th day of October, 1904.

FRED BARKER.

Witnesses:
JOHN W. STEWARD,
ROBERT J. POLLETT.