

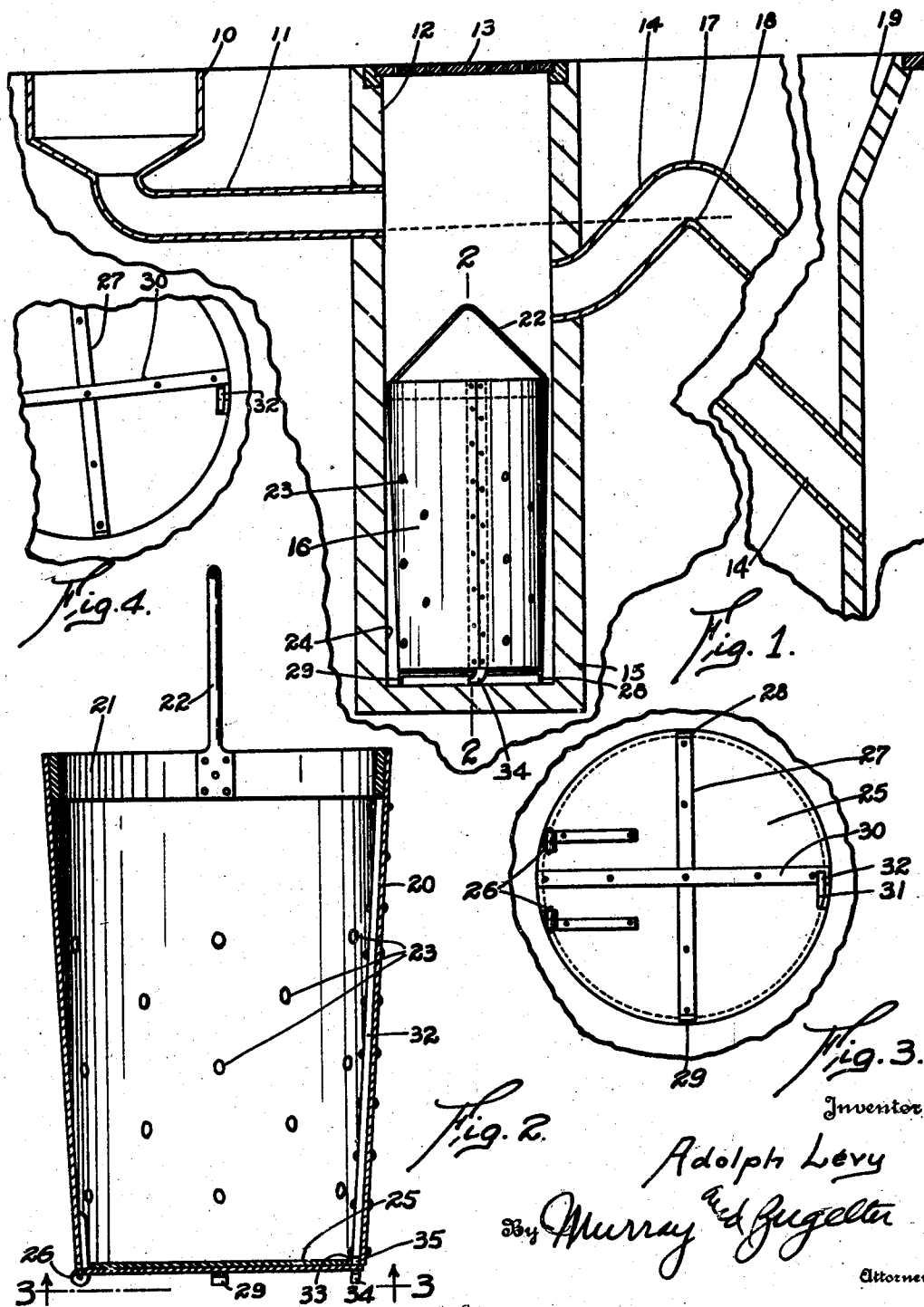
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SEWER CATCH BASIN

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UNITED STATES PATENT OFFICE

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SEWER CATCH BASIN

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This invention relates to sewer catch basins.

An object of the invention is to provide a removable catch basin that is simple in construction and that readily lends itself to cleansing thereof.

Another object is to provide a receptacle for use with such catch basins and which receptacle is simple and sturdy in construction and which may readily be withdrawn from a catch basin in which it may be deposited.

These and other advantages are attained by the means described herein and disclosed in the accompanying drawings in which:

Fig. 1 is a transverse sectional view through a portion of a sewage system deposited in a street and showing the invention.

Fig. 2 is a sectional view of a pocket forming a detail of the invention and taken on line 2—2 of Fig. 1.

Fig. 3 is a bottom view of the disclosure in Fig. 2.

Fig. 4 is a fragmental view of the parts shown in Fig. 3.

The curb sewer inlet 10 communicates by means of a duct 11 with a catch basin 12 provided with a removable cover 13. An outlet duct 14 leaves the catch basin 12 at a point somewhat below the point of communication of the inlet duct 11 with the catch basin 12. Within the catch basin and below the point of communication of the outlet duct 14 with the catch basin is provided a well 15 that receives a bucket 16. The outlet duct 14 is preferably provided with an upwardly projecting elbow-like portion 17, the lower wall 18 of which serves as an overflow or abutment for providing a water seal for precluding gases and odors from a sewer system comprising a man hole 19, from entry into the catch basin. The drainage system as just explained permits the flow of drained water to the sewer, whereas heavy substances including mud and the like are held in suspense within the well to settle into the bucket 16. When it is desired to clean the catch basin, cover 13 is removed by any suitable manner, for example a crane or the like on a truck. The contents of the bucket may be emptied into the

truck and the bucket returned to the well.

The bucket disclosed herein comprises a downwardly tapering wall 20 reinforced at its upper edge by an annular ring or band 21. A suitable handle or band 22 is mounted at the upper edge of the bucket. The conical wall 20 of the bucket is perforated at various places as indicated at 23. It should be noted that the inside wall 24 of the well is cylindrical, wherefore the bucket may be readily withdrawn from the well notwithstanding that a heavy, oozy deposit of mud and filth may have settled between the outer wall of the bucket and the inner wall of the well. The indicated deposit would naturally be of no large articles because the upper or larger diameter of the bucket is but slightly less than the inside diameter of the well. The perforations 23 in the bucket prevent air pressure from holding the bucket against withdrawal from the well. The bottom 25 of the bucket is hinged upon an inside wall 20 and suitable means are provided so that the bottom of the bucket may be locked to the wall 20 of the bucket. The bottom 25 may move upon its hinges 26 for dropping the bottom of the bucket while suspended upon the crane upon a suitable truck provided for raising the bucket from the well and carrying away the deposit that was withdrawn from the well by means of the bucket. The bottom 25 is preferably reinforced by a cross brace 27 provided with suitable feet 28 and 29 at its opposite ends. A second cross brace 30 co-operates with a reciprocating catch member 31 for locking the bottom in closed position. A reinforcing member 32 extending along the side 20 of the bucket projects through an opening 33 in the bottom and its lower end serves as a foot 34. The reinforcing member 32 is provided with a recess 35 into which the forward end of the member 30 may enter. The entry of the member 30 into the recess 35 serves as a lock or retaining means to hold the bottom of the bucket in closed position. Lateral movement of the member 30 in the recess 35 provided for by limited resiliency in the wall of the container and the hinge mounting, serves to release the member 30 so that the bottom of the bucket may move about

its hinged connection for discharging the contents of the bucket.

What is claimed is:

1. As a new article of manufacture a bucket
5 for removable insertion in a catch basin well,
the bucket comprising a bottom and an upwardly extending wall, the wall tapering from the upper end thereof towards the bottom of the bucket and having perforations
10 therethrough, a hinged connection between the bottom and the wall of the bucket, means for locking the bottom in closed position upon the wall of the bucket, foot members carried by the bucket for supporting same
15 when the bottom of the bucket is closed, an annular reinforcing band at the upper edge of the bucket, a bail secured to the reinforcing ring and extending upwardly therefrom and a reinforcing bar extending along the
20 wall of the bucket, connecting the annular ring and the bottom and forming a part of the means for locking the bottom in closed position.

2. As a new article of manufacture a
25 bucket for removable insertion in a catch basin well, said bucket comprising a wall tapering from the upper end toward the bottom of the bucket and having perforations therethrough, a bottom for the bucket hinged
30 interiorly thereof and a latch for holding the bottom of the bucket in closed position, disposed interiorly of the bucket and extending through the bottom of the bucket.

3. As a new article of manufacture a catch
35 basin bucket comprising a tapered perforate wall portion, a bail extending from the top of said wall, a bottom member hinged interiorly of the bucket at the bottom thereof and a latch member extending vertically of
40 the bucket and forming in part a reinforcement therefor providing a catch for the bottom of the bucket and a foot for supporting the bucket.

In testimony whereof, I have hereunto
45 subscribed my name this 13th day of August, 1927.

ADOLPH LÉVY.

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