June 9, 1925. 1,541,436

M. RESHAN

SEWER DRAIN

Original Filed Nov. 30. 1923

Fig. 1

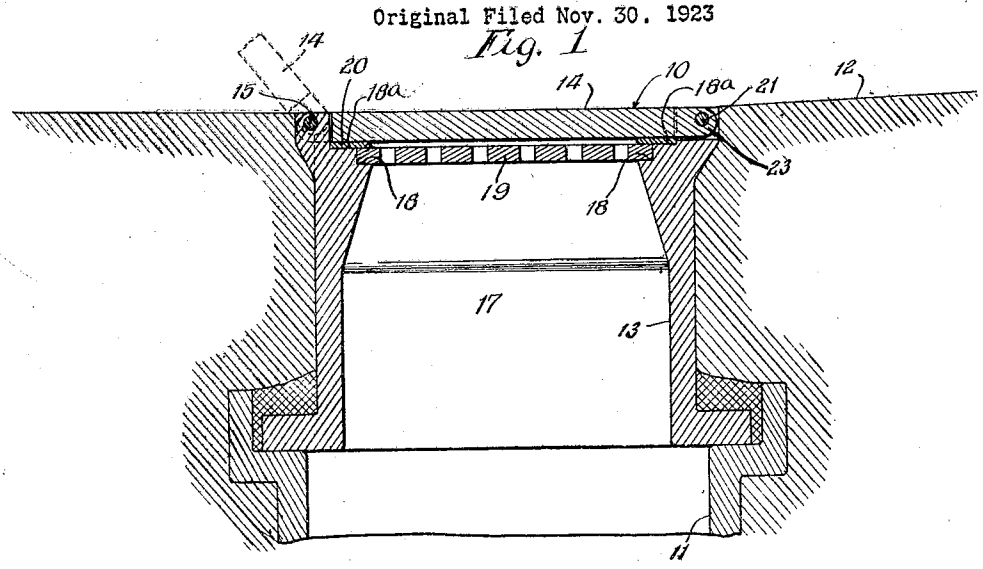



Fig. 2

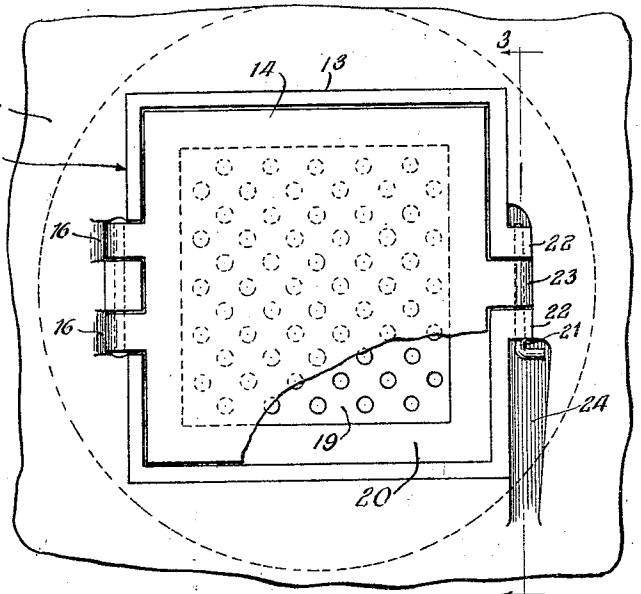
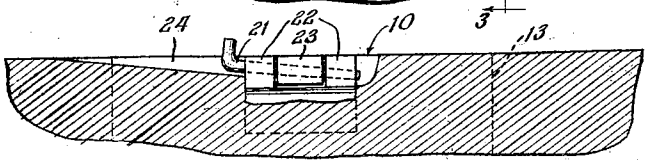



Fig. 3

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# UNITED STATES PATENT OFFICE.

MIKLOS RESHAN, OF WHITING, INDIANA.

## SEWER DRAIN.

Continuation of application Serial No. 677,865, filed November 30, 1923. This application filed December 31, 1923. Serial No. 683,570.

*To all whom it may concern:*

Be it known that I, MIKLOS RESHAN, a citizen of the United States, residing at Whiting, in the county of Lake and State of Indiana, have invented certain new and useful Improvements in Sewer Drains, of which the following is a specification.

This application is a continuation of my application, Serial No. 677,865, filed under date of November 30, 1923.

The object of this invention is to provide an improved sewer drain of simple inexpensive construction which may be embedded in the floor of a basement or the like to strain the water escaping into a drain pipe and which will prevent the escape of sewer gas into the basement.

A further object of this invention is to provide an improved sewer drain which is adapted to be embedded in the floor of a basement or the like with its upper surface substantially flush with the floor so that it will form a portion of the floor.

A still further object of this invention is to provide an improved sewer drain having a cover which when closed is adapted to prevent the escape of sewer gas through the sewer drain and having improved means for locking the cover in its closed position.

Other objects of this invention will become apparent as the detail description progresses, reference being had to the accompanying drawing, wherein—

Fig. 1 is a vertical section through my improved sewer drain.

Fig. 2 is a plan view of this improved sewer drain, a cover which forms a part thereof being broken away to illustrate certain details of construction, and

Fig. 3 is a section taken on line 3—3 of Fig. 1.

Referring to the drawing, the reference character 10 designates, in its entirety, my improved sewer drain which is shown in connection with a drain pipe 11 of the type usually employed to permit the escape of water from a basement or the like. The sewer drain 10 is shown embedded in a cement floor 12 and it comprises a casing 13 to which is pivotally secured a cover 14 disposed flush with the floor 12 so as to form a part thereof. A pin 15 is provided to pivotally secure the cover 14 to the casing 13. It will be noted that the cement floor 12 is cut away as at 16 so that the cover 14 may be swung into the position shown in dotted lines in Fig. 1.

The casing 13 is formed with a passage 17, the walls of the casing being stepped, and the steps constituting upper and lower aligned shoulders 18 and aligned shoulders $18^a$. The aligned shoulders 18 are adapted to support a removable perforate plate 19 flush with the shoulders $18^a$ and which plate is adapted to strain water flowing through the passage 17, the upper surface of the perforate plate being disposed substantially flush with the aligned shoulders $18^a$. The perforate plate 19 will prevent the drain pipe 11 from becoming choked or clogged by comparatively large objects which might otherwise be swept into the drain pipe by the water.

A gasket 20 rests upon the aligned shoulders $18^a$ and overlaps the plate 19 and is compressed by the cover 14 to seal the upper opening in the casing 13 when the cover is in its closed position. My invention contemplates improved means for locking the cover in its closed position. This means comprises a tapered pin 21 adapted to be seated in suitable apertures in lugs 22 and 23 formed integral with the casing 13 and the cover 14 respectively. The thicker end of the tapered pin 21 is preferably bent at an angle to the remainder of the pin to form a handle which facilitates manipulation of the pin. The cement floor 12 is cut away as at 24 to permit withdrawal of the pin from and insertion thereof into the apertures in the lugs 22 and 23.

When the cover 14 has been brought into and is to be locked in its closed position so as to compress the gasket 20 to seal the upper opening in the casing 13, the operator may stand upon the cover to force the cover downwardly until the apertures in the lugs 22 and 23 register and permit insertion of the tapered pin 23. The advantage of this construction is obvious; it makes unnecessary the use of mechanical devices for bringing the cover into closed position against the action of the resilient gasket. The tapered pin is easily withdrawn when the cover is to be opened; the advantage of this feature is also obvious.

It will be seen that the gasket 20 is compressed in a position wherein it makes tight the joint between the plate 14 and the walls

of the casing, and also the joint between the plate 19 and the walls of the casing, so as to effectually prevent the unsanitary condition which would prevail if there were any possible chance of the contents of the sewer forcing their way up through the opening.

I am aware that changes in the form, construction and arrangement of parts may be made without departing from the spirit and without sacrificing the advantages of the invention and I reserve the right to make all such changes as fairly fall within the scope of the following claims.

I claim:

A sewer drain for preventing back flow of water and escape of sewer gas from a drain pipe and comprising a casing embedded in a floor or the like and having an opening substantially flush with the floor, a perforate plate disposed in the opening to strain water flowing through the casing, a gasket arranged in the opening, a cover pivotally secured to the casing and adapted to seat upon the gasket, and a tapered pin for locking the cover in a position wherein it is substantially flush with the floor and wherein it compresses the gasket to seal the opening, said pin being received in a recess in the floor.

MIKLOS RESHAN.