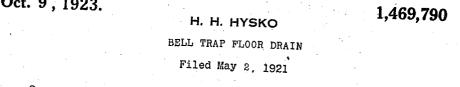
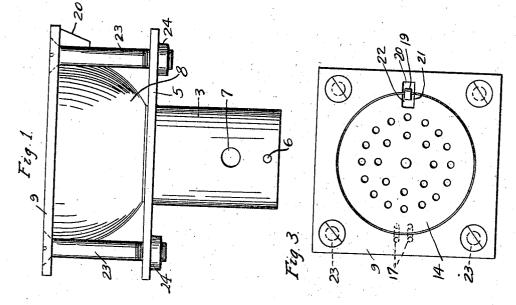
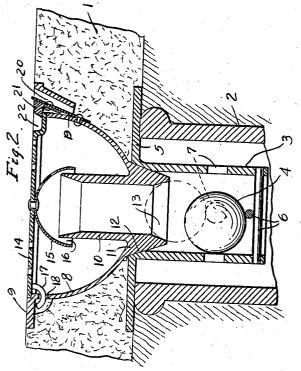
Oct. 9, 1923.







Hipolit H Hysko.

AMulir 53y

Attorney

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1,469,790

UNITED STATES PATENT OFFICE.

HIPOLIT H. HYSKO, OF DETROIT, MICHIGAN.

BELL-TRAP FLOOR DRAIN.

Application filed May 2, 1921. Serial No. 466,362.

To all whom it may concern:

citizen of the United States, residing at Detroit, in the county of Wayne and State 5 of Michigan, have invented a new and useful Bell-Trap Floor Drain, of which the

following is a specification. This invention relates to bell trap floor

drains, and more particularly to bell trap 10 floor drains having check valves preventing a back flow from the sewer into which the

drain empties. It is the object of the invention to provide

a fitting of the type specified that will af-15 ford easy access to the check valve so that the same may be inspected and replaced

when necessary without difficulty. A further object of the invention is to utilize certain standard parts in construct-20 ing the improved fitting so as to minimize

the preliminary manufacturing expense.

In attaining these objects the invention contemplates arranging a check valve casing permanently below a floor and in discharge connection with a drain pipe, and removably fitting in said floor a bell trap member detachably secured to said check valve casing, and having a suitably perforated cover flush with the floor, said trap seating upon said valve casing and discharging there-

30 through into the drain pipe.

A preferred embodiment of the invention is hereinafter disclosed and is illustrated in the accompanying drawing, wherein,

35 Fig. 1 is a view of the improved fitting in side elevation.

Fig. 2 is a vertical sectional view of the fitting showing the same installed in a floor. Fig. 3 is a plan view of the device.

40 In these views the reference character 1 designates a floor formed of concrete or the normally in a depressed portion 22 formed like, and 2 is a drain pipe beneath said floor in the plate 14 diametrically opposite to the and opening in close proximity to the floor. Within the upper end of said pipe there de-45pends a cylindrical open-ended casing 3 for a ball valve 4, said casing having at its be swung up to give access to the trap. The upper end a flange 5 engaging beneath the trap member is detachably secured upon the retain said ball valve. Also to compensate, gagement with screwthreaded bosses 24 on under normal conditions, for restricting of the flange 5 of the latter member. When the passage through said casing by the ball access to the valve casing 3 is desired, it is 5055

2, and is formed with a marginal flange 9 Be it known that I, HIPOLIT H. HYSKÖ, a engaging the floor flush with the surface thereof. Said bowl-shaped member is integrally formed with a central tubular dis- 60 charge outlet 10 projecting a considerable distance upwardly into the bowl and extending downwardly a lesser distance. The depending portion 11 of said outlet has a relatively thick wall and is exteriorly tapered 65 to snugly engage a correspondingly shaped seat 12 formed within the upper end of the casing 3. Said depending portion is terminally formed with an interior flare, as indicated at 13, and as is shown in dash lines 70 in Fig. 2. The flared surface 13 provides a seat for the ball valve 4 when the latter is subjected to the pressure of a back flow in the pipe 2.

The rim of the bowl member 8 forms a 75 seat for a perforated drain plate 14 to which is centrally secured within said bowl member, a bell-shaped guard or shield 15 which surrounds the intake end of the outlet 10, being spaced from the latter to form a re- 80 stricted annular passage 16. A hinged connection may be formed between the plate 14 and bowl member 8, the drawing showing such a connection established by a pair of curved pins 17 secured to said plate adjacent 85 the edge thereof and projecting downwardly and laterally to loosely engage in apertures 18 in the top portion of the bowl member. Provision is also made by the invention for normally latching the plate 14 in its posi- 90 tion of use, this provision comprising a leaf spring 19 exteriorly secured to the bowl member and projecting upwardly within a housing 20 formed integrally with said bowl member, a latch head 21 being carried 95 by the upper end of said spring and engaged hinge 17. By slightly stressing the spring 19 said latch head may be disengaged from 100 the drain plate 14, permitting the latter to floor 1 and having one or more rods 6 dia- valve member by bolts 23 which extend metrically arranged within its lower end to through the flange 9 of the fomer into en- 105 valve, it is preferred to form a circumfer-ential series of discharge ports 7 in said cas-ing. A bowl-shaped trap member 8 is re-lifted from position. Thus inspection or removably fitted in the floor 1, above the pipe placement of the ball valve may be accom-

What I claim is:

A bell trap drain comprising a cylindrical fication. casing flanged at one end and having a 10 tapered opening therein, a ball valve in said

plished without difficulty. When the trap member is replaced and the bolts 23 are tightened the tapered downward extension 11 is forced firmly into the seat 12, effecting a water tight joint. The described construction is one that a water tight joint.
The described construction is one that may be inexpensively manufactured and easily installed.
The described construction is one that may be inexpensively manufactured and easily installed.
The described construction is one that may be inexpensively manufactured and easily installed.

In testimony whereof I sign this speci-

HIPOLIT H. HYSKO.