

No. 860,252.

PATENTED JULY 16, 1907.

M. SCHNAIER.

CESSPOOL.

APPLICATION FILED JAN. 3, 1905.

2 SHEETS—SHEET 1.

Fig. 1.

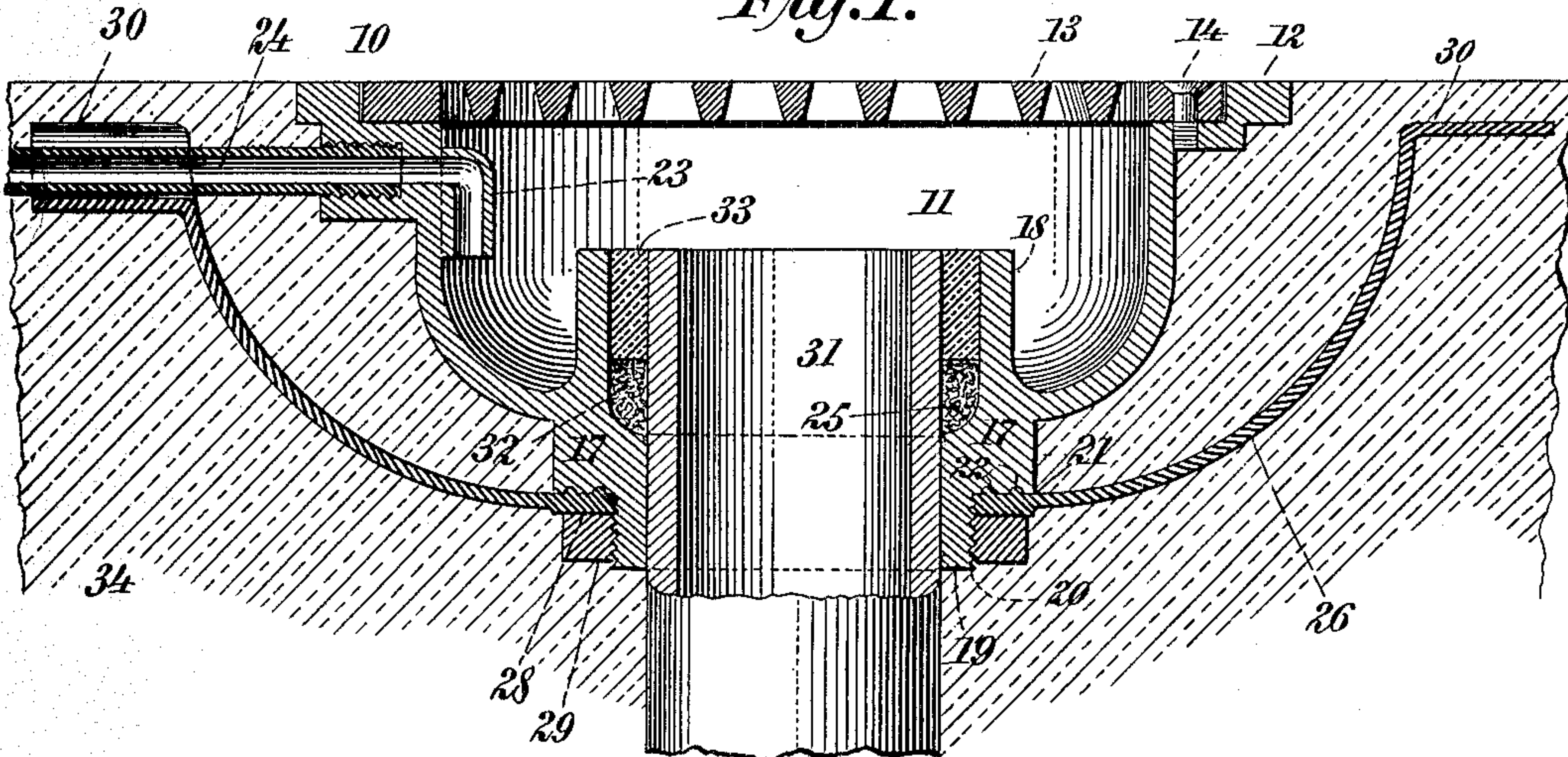
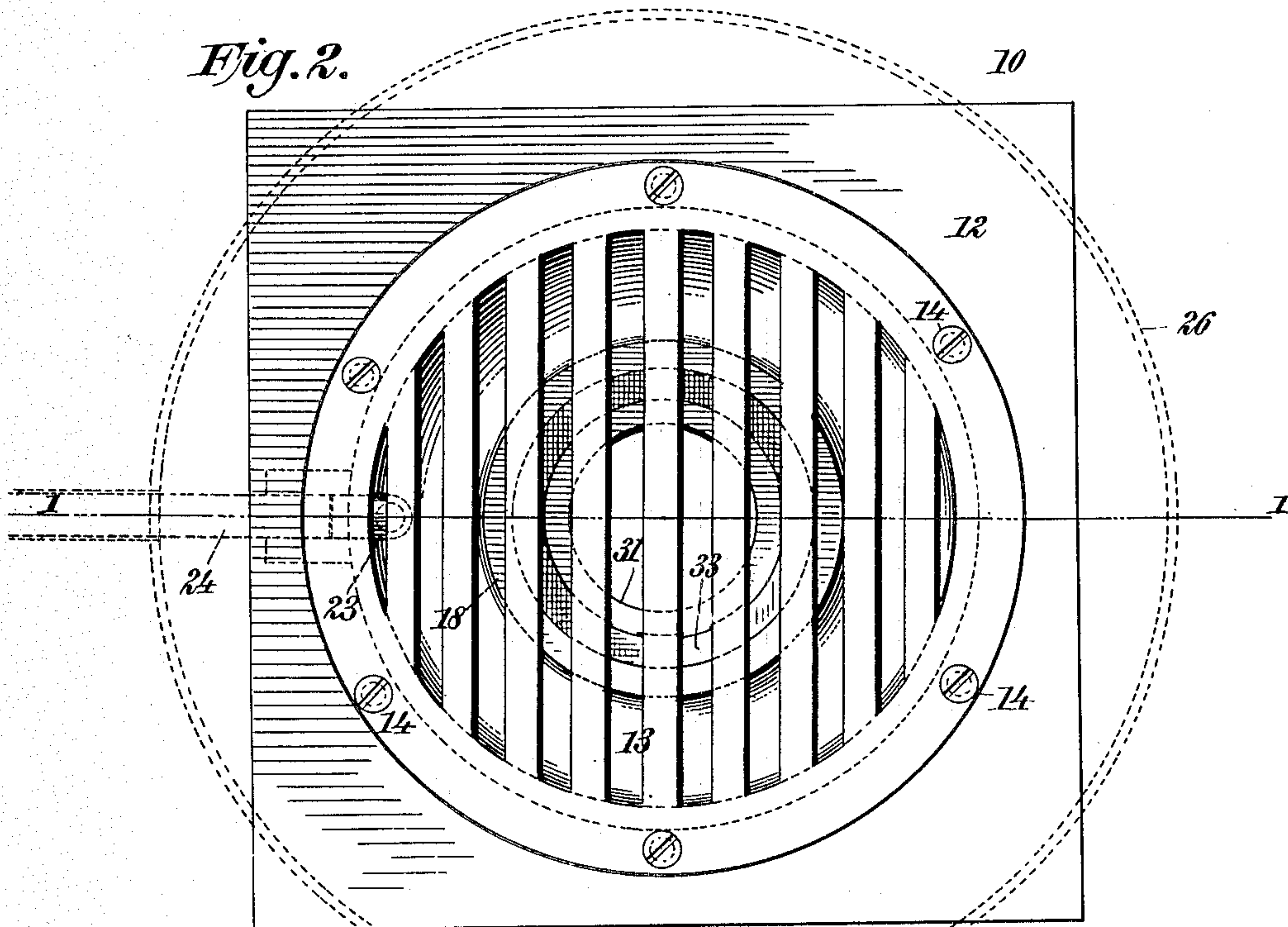


Fig. 2.



WITNESSES:

Gustave Dietrich.
Edwin H. Dietrich.

INVENTOR

Milton Schnaier

BY

Conrad Augustus Dutench
his ATTORNEY

No. 860,252.

PATENTED JULY 16, 1907.

M. SCHNAIER.

CESSPOOL.

APPLICATION FILED JAN. 3, 1905.

2 SHEETS—SHEET 2.

Fig. 3.

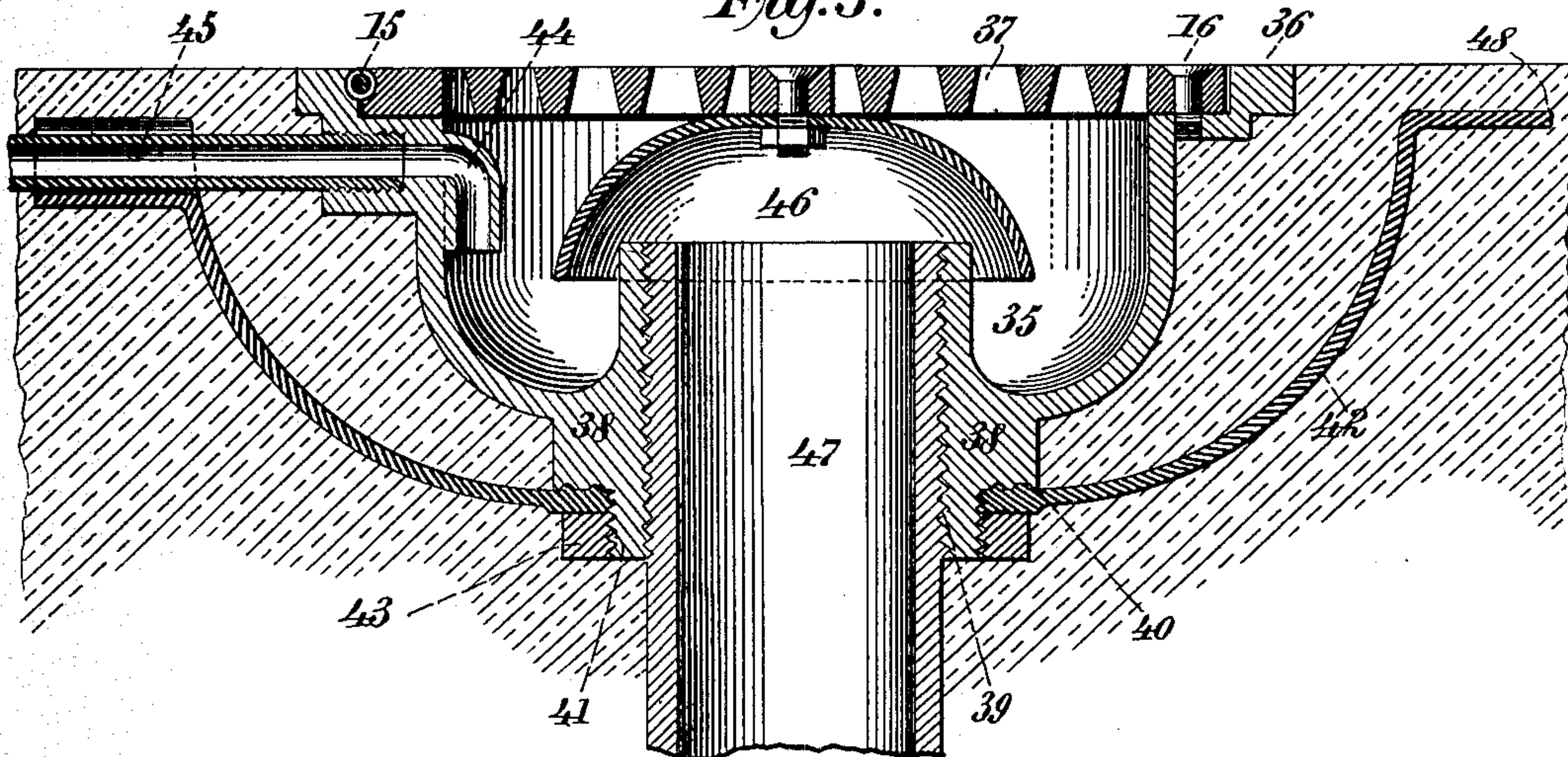
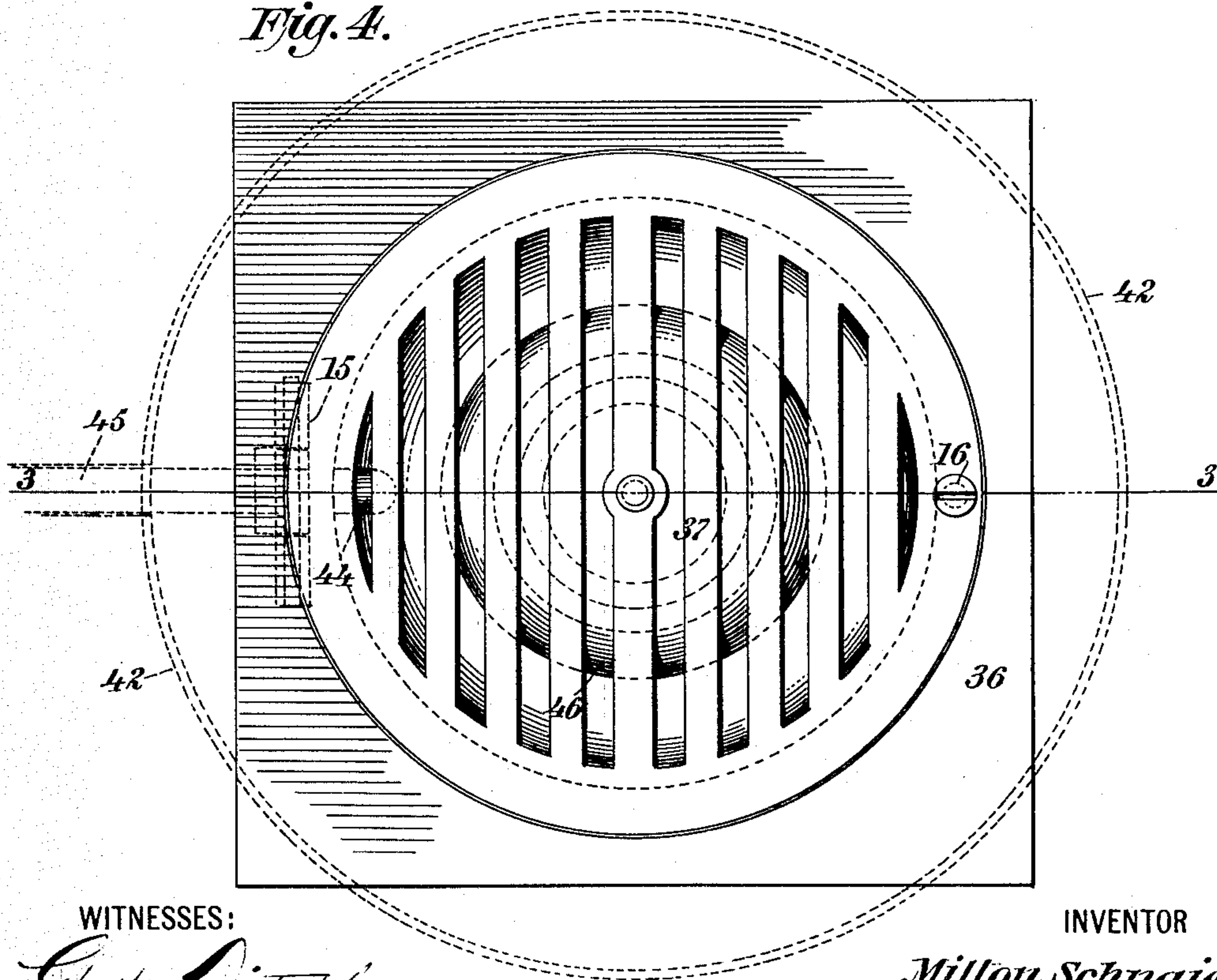


Fig. 4.



WITNESSES:

Gustave Richter.
Edwin Richter.

INVENTOR

Milton Schraier

BY

Conrad Augustus Detmold
his ATTORNEY

UNITED STATES PATENT OFFICE.

MILTON SCHNAIER, OF NEW YORK, N. Y.

CESSPOOL.

No. 860,252.

Specification of Letters Patent.

Patented July 16, 1907.

Application filed January 3, 1905. Serial No. 239,335.

To all whom it may concern:

Be it known that I, MILTON SCHNAIER, a citizen of the United States, residing at the city of New York, borough of Manhattan, in the county and State of New York, have invented certain new and useful Improvements in Cesspools, of which the following is a full, clear, and exact specification.

My invention relates to improvements in drain constructions, and the same has for its object more particularly to provide a cesspool for use in stables and other structures adapted to be flushed.

Further said invention has for its object to provide a simple, efficient and inexpensive cesspool which may be readily and conveniently connected to the waste or drain pipe in such a manner as to produce a permanent and perfectly watertight closure at the junction of the waste pipe with the cesspool.

Plumbers have long been confronted with the problem of making a perfectly watertight joint at the place where the cesspool is connected to the waste pipe. The difficulty in making such a closure has been due largely to the fact that the waste pipes are usually of large diameter; the space between the beams small (varying between twelve and eighteen inches) and finally the depth of the cesspool and the inclination of the waste pipe usually such as to render it impossible for the plumber to gain access to the place or point where the closure is to be effected. Further, even when a fairly tight closure has been effected, it becomes difficult to maintain it so, particularly in the case of stables where the animal urine contacting with the exposed metal and settling in the joints soon has the effect of corroding the parts and producing leaks.

To the attainment of the objects above set forth and the overcoming of the difficulties pointed out, my invention consists in the novel details of construction, and in the combination, connection and arrangement of parts hereinafter more fully described and then pointed out in the claims.

In the accompanying drawings forming part of this specification, wherein like numerals of reference indicate like parts, Figure 1 is a central vertical section taken on the line 1—1 of Fig. 2 showing a cesspool made according to and embodying my invention, Fig. 2 is a plan or top view of the same; Fig. 3 is a central vertical section taken on the line 3—3 of Fig. 4 illustrating a modified construction, and Fig. 4 is a plan or top view thereof.

In said drawings 10 designates the cesspool consisting of a circular receptacle or basin 11 having a recessed laterally projecting flange 12 at its upper edge adapted to receive a removable perforated plate or grating 13 which may be secured thereto by screws 14 as shown at Figs. 1 and 2, or by a hinge 15 and screw 16 as shown at Figs. 3 and 4.

In the base of the receptacle or basin 11 is provided

a hub or sleeve 17 which is preferably made integral therewith, and has a portion 18 which extends upwardly therefrom into said receptacle 11, and a portion 19 extending downwardly from the base of said receptacle 11 which is provided upon its outer surface with screw threads 20.

21 denotes a shoulder arranged upon the underside of the receptacle 11 and surrounding the sleeve portion 19; said shoulder having a plurality of concentric grooves or recesses 22 therein.

23 denotes a nozzle which is arranged upon the inner surface of the receptacle 11 near its upper edge, and connected with a source of water supply by a pipe 24.

The diameter of the portion 18 is made larger than that of the portion 19 which is just large enough to admit the end of a pipe, so as to form an inclined shoulder or abutment 25 within said sleeve.

Below the flange 12 of the receptacle 11 is disposed a flashing of sheet metal, preferably sheet lead, which is shaped to form an outer receptacle 26 which is made of larger diameter than said receptacle 11 and surrounds the same, said receptacle 26 is provided at the center of its base with an aperture adapted to receive the threaded portion 19 of the sleeve 17. The edge of said receptacle 26 about the aperture being preferably made thicker to form a rim 28, against which a nut 29 working upon the threaded portion 19 of the sleeve 17 is adapted to bear and press the same against the shoulder 21 and into the annular grooves 22 therein whereby to hold said outer receptacle 26 duly in position below the receptacle 11, and at the same time form a watertight joint at said place, in order to retain any fluid matter which may possibly work its way between the outer surface of the receptacle 11, and the pitch or cement filling contacting therewith.

30 denotes a lateral flange extending outwardly from the upper edge of the receptacle 26 which flange is adapted to be united by soldering to the edges of a protective sheeting disposed about the cesspool below the floor level.

31 denotes the upwardly projecting end of a waste pipe which is adapted to fit snugly within the screw-threaded portion 19 of the sleeve 17, and has its upper edge on a level with that of the sleeve portion 18, and is secured therein by introducing and packing a quantity of oakum 32 into the space intermediate the outer surface of the upper end of said pipe 31 and the inner surface of the sleeve portion 18, and thence calking the remainder of said space to the top of the pipe and sleeve with a quantity of molten lead 33. Hereupon the space surrounding the receptacle 26 and the space intermediate the said receptacles 11 and 26 is filled with cement 34 to the level of the floor when the floor itself is made of cement, otherwise when a floor of wood or other material is provided, the filling which may be of cement, pitch or other water proof material should be

carried up to a point just below the finishing or final covering material of the floor.

In the modification illustrated at Figs. 3 and 4 the structure as a whole is essentially the same as that hereinabove described. In the present construction 35 denotes a receptacle or basin, 36 a recessed flange at its upper edge, 37 a perforated plate or grating, 38 a hub or sleeve arranged in the base of the receptacle 35, having screw-threads 39 upon its inner surface, and a shoulder 40, and screw-threads 41 upon the outer surface of the portion projecting below the base of the receptacle 35. 42 denotes a sheet metal flashing forming a receptacle which is secured in position below the receptacle 35 by a nut 43. 44 denotes a nozzle arranged in said receptacle 35 below its top and connected by a pipe 45 with a source of water supply, and 46 denotes a bell-shaped trap-cover secured to the underside of the apertured plate 37, having its lower edge extending below the top of the sleeve 38 and the end of the pipe therein. 47 denotes the upturned end of the waste pipe which is provided upon its outer surface with screw threads adapted to engage those upon the inner surface of the hub or sleeve 38, and 48 denotes a water proof filling disposed around and within the receptacle 37, and extending to substantially the height of the floor level.

It is to be particularly noted that in my improved construction the upper edge of the upturned end of the waste pipe may be brought to within a very few inches of the floor level, and that the cesspool and the sleeve member thereof extend over and inclose the top end of said pipe, and that the union of said pipe with the sleeve portion of the cesspool receptacle and the flooring or material contacting therewith may be readily and tightly sealed from within the cesspool receptacle after the cover plate has been removed, and that by extending the flange of the outer receptacle or flashing a sufficient distance, all possibility of fluid matter passing between the outer surface of said outer receptacle will be obviated.

Without limiting myself to the details of construction, what I claim and desire to secure by Letters Patent is:

1. A cess-pool comprising a receptacle, a tubular section opening into said receptacle adapted to receive and inclose a pipe end, and a securing medium for said pipe end interposed between said pipe end and tubular section, said securing medium, pipe end and tubular section having their upper edges in alinement, substantially as specified.

2. A cess-pool comprising a receptacle, a tubular section opening into said receptacle, adapted to receive and inclose a pipe end and arranged partly within and partly without said receptacle, and a securing medium for securing said pipe end in said tubular section, said securing medium being interposed between said pipe end and said tubular section, and having its upper edge in alinement with the upper edges of said pipe end and tubular section, substantially as specified.

3. A cess-pool comprising a receptacle, a tubular section thereon having a portion of the opening therein of larger diameter than the remainder thereof, said tubular section being adapted to receive and inclose a pipe end, and a securing medium for securing said pipe end in said tubular section, said securing medium, pipe end and tubular section having their upper edges in alinement, substantially as specified.

4. A cess-pool comprising a receptacle, a tubular section thereon adapted to receive and inclose a pipe end, said tubular section having a portion of the opening

therethrough conforming substantially to the pipe therein, and a portion of larger diameter adapted to receive a securing medium for securing said pipe end in said tubular section, said securing medium, pipe end and tubular section having their upper edges in alinement, substantially as specified.

5. A cess-pool comprising a receptacle, a tubular section arranged partly within and partly without said receptacle, and adapted to receive and inclose a pipe end, said tubular section having a portion of the opening therethrough conforming substantially to the pipe therein, and a portion of larger diameter, and a securing medium interposed between said tubular section and the pipe end for securing said pipe end to said tubular section, said securing medium, pipe end and tubular section having their upper edges in alinement, substantially as specified.

6. A cess-pool comprising a receptacle, means arranged therein adapted to engage a pipe end, and a receptacle surrounding the receptacle first named, substantially as specified.

7. A cess-pool comprising a receptacle, means arranged in the base thereof adapted to receive and inclose a pipe end, and a receptacle surrounding the receptacle first named, substantially as specified.

8. A cess-pool comprising a receptacle means at the base thereof arranged partly within and partly without said receptacle adapted to engage a pipe end, and a receptacle disposed below and surrounding the receptacle first named, substantially as specified.

9. A cess-pool comprising a receptacle, means arranged in the base thereof adapted to engage a pipe end, and a receptacle secured to the base of and surrounding the receptacle first named, substantially as specified.

10. A cess-pool comprising a receptacle, means arranged in the base thereof adapted to engage a pipe end, a receptacle connected to and surrounding said receptacle first named, and a filling interposed between said receptacles, substantially as specified.

11. A cess-pool comprising a receptacle, a sleeve in the base thereof arranged partly within and partly without said receptacle adapted to engage and hold a pipe end, and an outer receptacle secured to the base of and surrounding said receptacle first named, substantially as specified.

12. A cess pool comprising a receptacle having a top provided with apertures, a sleeve in the base of said receptacle arranged partly within and partly without the same adapted to engage a pipe end, and an outer receptacle secured to the case of said first named receptacle and surrounding the same, substantially as specified.

13. A cess-pool comprising a receptacle, a sleeve in the base thereof arranged partly within and partly without said receptacle adapted to engage and inclose a pipe end, and an outer receptacle arranged below the base of and surrounding said receptacle first named, and means for securing said outer receptacle to the one first named, substantially as specified.

14. A cess-pool comprising a receptacle, a top therefor provided with apertures, a nozzle arranged in said receptacle adapted for connection with a source of water supply a sleeve arranged in the base of said receptacle adapted to receive and hold a pipe end, and an outer receptacle secured to the base of and surrounding said first named receptacle, substantially as specified.

15. A cess-pool comprising a receptacle, a sleeve in the base thereof adapted to engage and hold a pipe end; said sleeve being arranged partly within and partly without said receptacle, an outer receptacle having an aperture therein and disposed upon the portion of the sleeve without the receptacle, and means arranged upon the outer projecting portion of said sleeve adapted to hold said outer receptacle in position below and against the receptacle first named, substantially as specified.

16. A cesspool comprising a receptacle, a cover therefor having apertures therein, a nozzle arranged in said receptacle, a pipe extending therefrom communicating with a source of water supply, a sleeve in the base of said receptacle having portions extending inwardly and outwardly therefrom, screw-threads provided upon the outer surface of the outwardly-projecting portion, an outer receptacle having an aperture at its base adapted to receive

the outwardly projecting sleeve portion, and a nut working upon said outwardly projecting sleeve portion adapted to hold said outer receptacle pressed against the base of the receptacle first named, substantially as specified.

- 5 17. A cess-pool comprising a receptacle, a cover therefor, having apertures therein, a sleeve arranged in the base of said receptacle, and extending inwardly and outwardly therefrom, screw-threads arranged upon the outwardly projecting portion of said sleeve, a shoulder arranged at the base of said receptacle surrounding the sleeve portion 10 depending therefrom, a larger outer receptacle adapted to receive a water-proof filling, having an aperture in its base adapted to receive said threaded sleeve portion, and a lateral flange at its upper edge, and a nut arranged 15 upon said threaded sleeve portion adapted to hold the base of said outer receptacle securely against the shoulder on the base of the inner receptacle, substantially as specified.

- 20 18. A cess-pool comprising a receptacle, a cover therefor having apertures therein, a nozzle arranged in said receptacle communicating with a source of water supply, a sleeve in the base of said receptacle having a portion

extending upwardly into said receptacle, and a portion extending inward downward and outward therefrom, screw-threads provided upon said outwardly extending 25 sleeve portion, a shoulder upon the base of said receptacle surrounding said screw-threaded sleeve portion, a trap cover secured to the underside of the apertured cover and inclosing the upper end of said sleeve, a larger outer receptacle adapted to receive a water-proof filling having 30 an aperture in its base adapted to receive the screw-threaded sleeve portion, and a lateral flange at the upper edge of said outer receptacle, and a nut arranged upon said screw-threaded sleeve portion adapted to hold the base of said outer receptacle securely against the base of 35 the inner receptacle and the shoulder thereon, substantially as specified.

Signed at the city of New York, in the county and State of New York, this twenty-seventh day of December, nineteen hundred and four.

MILTON SCHNAIER.

Witnesses:

C. AUGUSTUS DIETERICH,
D. W. STEELE, Jr.