

(No Model.)

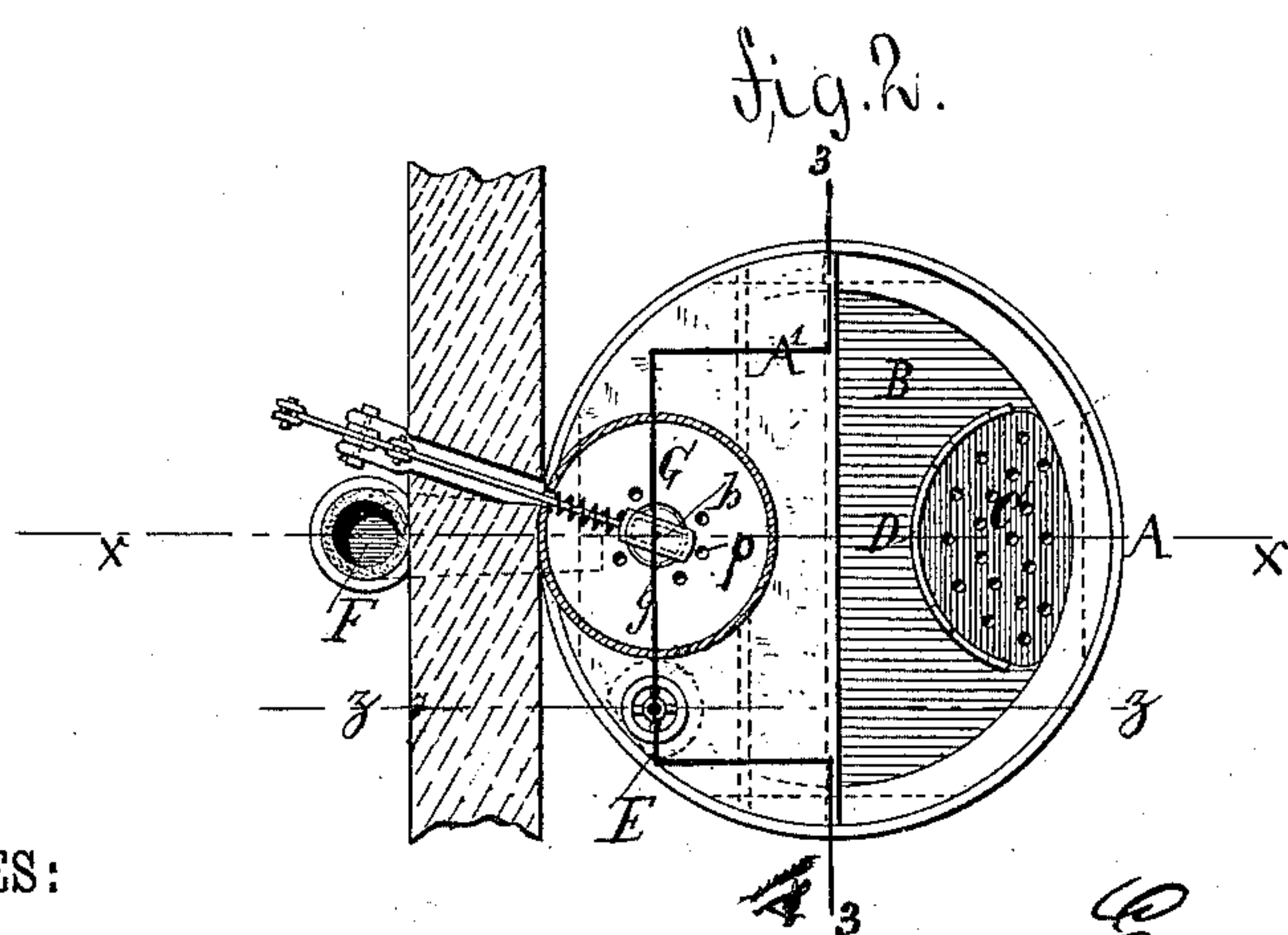
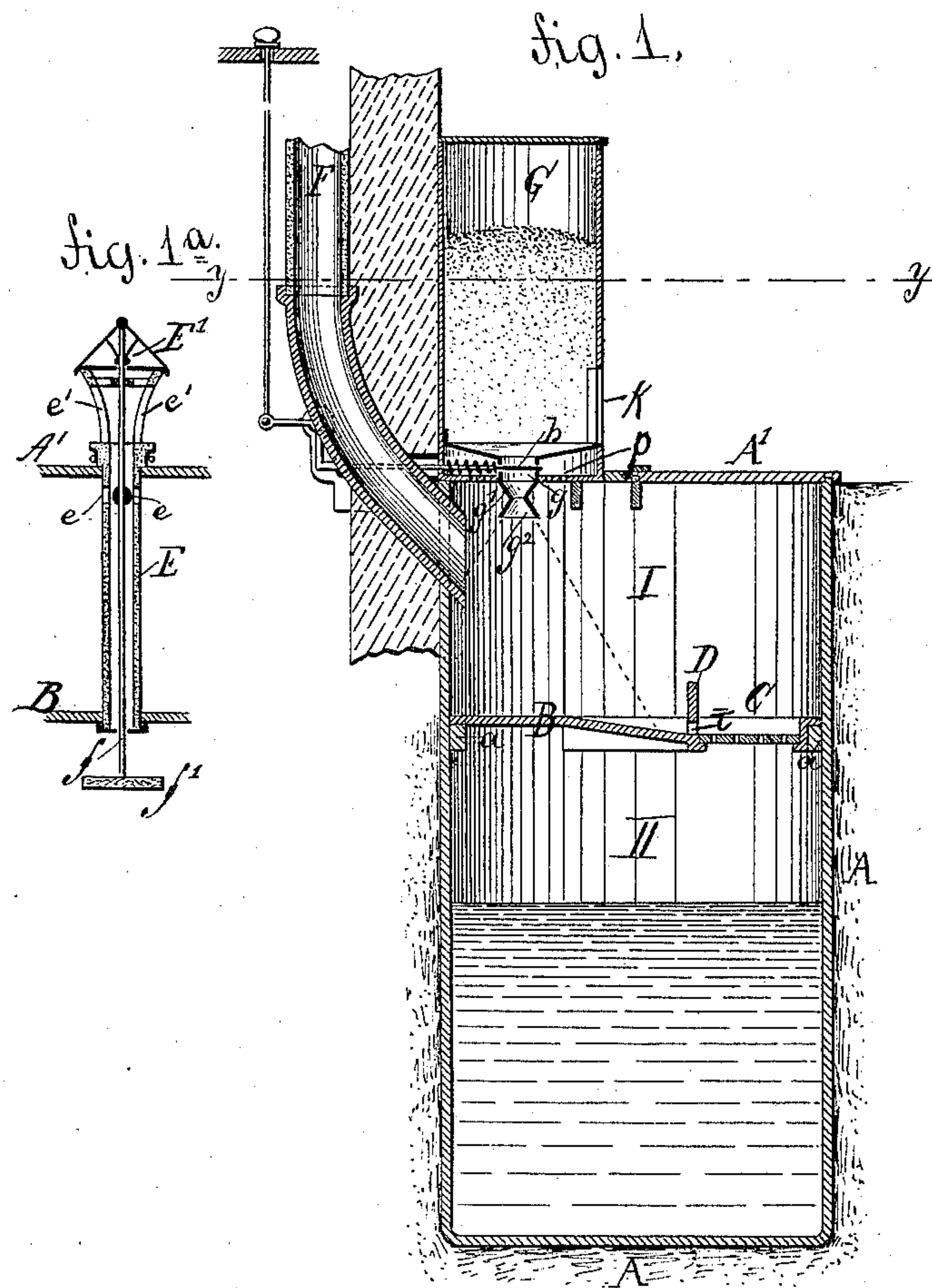
2 Sheets—Sheet 1.

E. DIETERICH.

CESSPOOL.

No. 302,713.

Patented July 29, 1884.



WITNESSES:

Joe H. Rosenbaum.
Eugene Karp

INVENTOR

INVENTOR
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 BY
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(No Model.)

2 Sheets—Sheet 2.

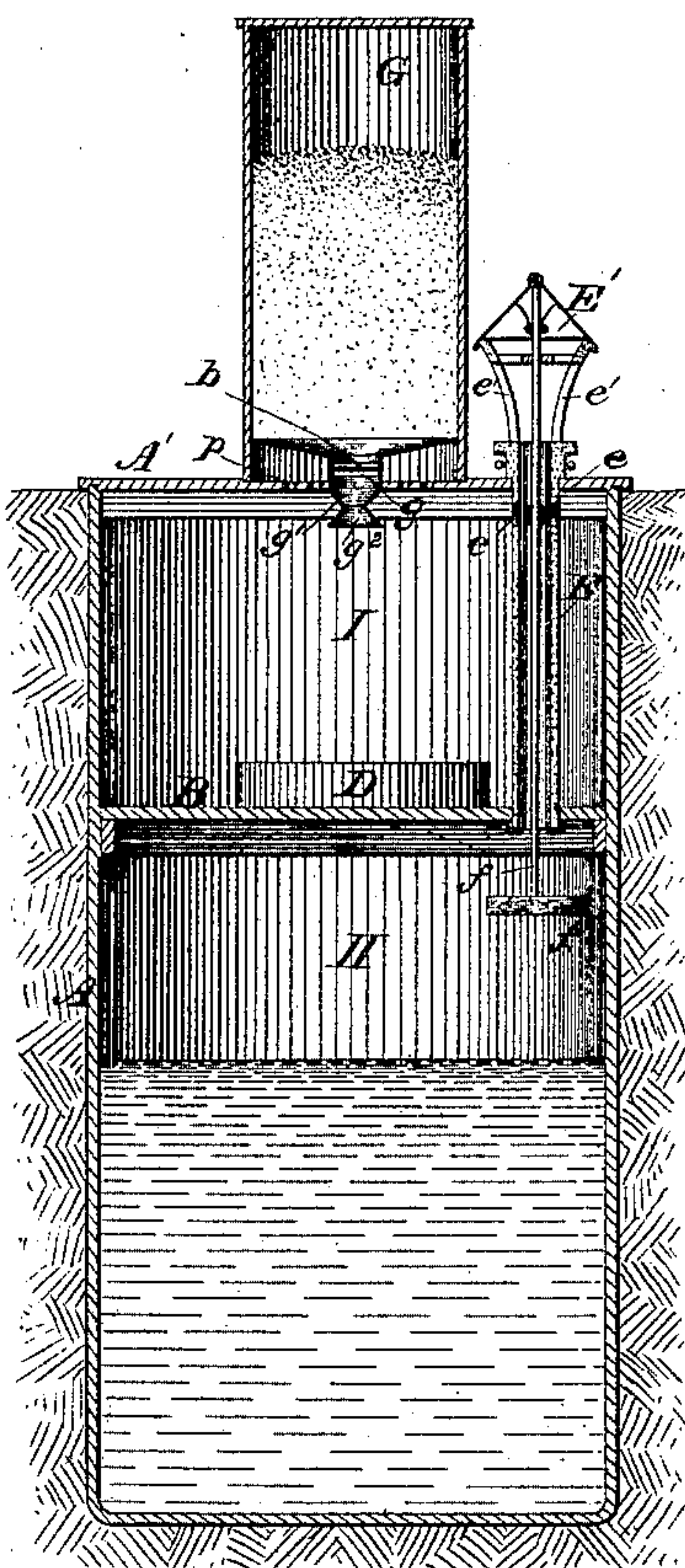
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Fig 3.



WITNESSES

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EUGENE DIETERICH, OF ANNISTON, ALABAMA.

CESSPOOL.

SPECIFICATION forming part of Letters Patent No. 302,713, dated July 29, 1884.

Application filed February 4, 1884. (No model.)

To all whom it may concern:

Be it known that I, EUGENE DIETERICH, of Anniston, Calhoun county, and State of Alabama, have invented certain new and useful Improvements in Cesspools, of which the following is a specification.

My invention relates to improvements in cesspools whereby they are made odorless and innoxious to health; and it consists of a cylindrical receptacle divided by a horizontal and partly-sloping partition into a smaller upper and a larger bottom chamber. The partition is arranged with a removable grating, and a perforated guard-flange around the grating. The receptacle is ventilated by a stand-pipe passing through the partition and arranged with an indicator worked by a float. An earth or sand box is supported on the cover of the cesspool, and provided with a valved outlet-tube having an outwardly-flaring lower end, whereby the earth or sand is spread over the solid excrements in the upper chamber.

In the accompanying drawings, Figure 1 represents a vertical central section on line x x , Fig. 2, of my improved cesspool. Fig. 1^a is a detail section of the ventilator and indicator on line z z , Fig. 2. Fig. 2 is a horizontal section on line y y , Fig. 1, of the cesspool. Fig. 3 is a vertical transverse section on line 3 3 of Fig. 2, looking toward the right.

Similar letters refer to similar parts throughout the several views.

In the drawings, A represents a cylindrical receptacle of cast-iron or other suitable water-tight material, which is closed at the bottom and provided with a removable cover, A'. The receptacle is divided by a cast-iron plate, B, into an upper chamber I and a lower chamber II, said lower chamber being twice as large as the upper chamber I. The partition-plate B is supported on four brackets, a , and provided at one side with a detachable grating, C, that is arranged somewhat below the level of the partition B, which latter slopes down toward the grate, as shown in Fig. 1. Around the grating extends a vertical guard-flange, D, having openings t at its bottom. The chambers I and II are ventilated by a tile-pipe, E, which extends through the cover A' and partition B, and is open at the lower end. Openings e e are also arranged in said

pipe E, below the cover A'. The upper end of the pipe E has also openings e' e' , through which the gases pass off to the outside. The ventilation-pipe E is covered by a hood, E', from which extends a rod, f , downward through the pipe E, said rod having a float, f' , at its lower end. When the lower chamber II is nearly full, the float f' will rise and lift the hood E'. To empty the chamber, the cover A' is removed, also the grating C, and the liquid in the lower chamber is pumped out by a suction-pump into a covered receiver. The excrements are conducted to the cesspool A by a conduct-pipe, F, which has its discharge-opening below the cover A'. To prevent the escape of vapors, the excrements are covered with sand or earth immediately after they have entered into the chamber I. For that purpose a sand or earth box, G, is arranged on the top of the receptacle A, which box is provided with an inclined bottom that communicates by a pipe, g , having a funnel-shaped contraction, g' , and a flaring portion, g'' , with the upper chamber I. A horizontal slide-valve, h , is attracted by means of lever-rods and bell-crank connections from the different stories of a building. A spiral spring is interposed between valve h and a fixed part, so as to return the slide-valve into position to close the pipe g . The lower flaring end, g'' , of the pipe g spreads the sand or earth over the excrements in the upper chamber or I. The top of the receptacle A has holes p below the sand-box G, so as to conduct the sand discharged by the movements of the valve into the upper chamber I. The cover A' of the cesspool A is preferably made slanting, so as to shed the rain-water. The sand-box is preferably inclosed, so as to keep the sand or earth dry. By a glass gage, K, in the side wall of the sand-box, it can be observed how much sand there is at any time in the box.

My improved cesspool is of special advantage for country and smaller places in which there is no regular system for conducting the human excrements.

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

1. A cesspool consisting of a cylindrical receptacle divided by a horizontal and partly-

sloping partition into an upper and a lower chamber, said partition having a removable grating and a perforated guard-flange around said grating, substantially as set forth.

5 2. The combination of a cylindrical receptacle divided by a horizontal partition into two chambers, said partition having a removable grating, with a ventilating-pipe extending through the cover and partition, and having openings below the cover and partition,
10 substantially as described.

3. The combination of a cylindrical cesspool or receptacle, A, having a horizontal partition, B, and a removable grating, C, with a
15 ventilating pipe, E, passing through the cover A' and the partition, and with an indicating device guided in said ventilating-pipe, and provided with a float at its lower end, substantially as set forth.

20 4. The combination of the cylindrical receptacle A, having partition B and grating C, a ventilating-pipe, E, passing through the cover and partition, and a hood, E', connected

by a rod, *f*, guided in said ventilating-pipe, with a float, *f'*, below the partition, substantially as set forth. 25

5. The combination of a cesspool, A, having a partition, B, and grating C, with a sand or earth box, G, supported on the cover A', said box having a valved outlet-opening, and
30 means, as described, for operating said valve, substantially as set forth.

6. The combination of a cesspool, A, having a partition, B, and grating C, with a sand or earth box, G, a valved outlet-pipe, *g'*, having
35 a flaring end, *g''*, and means, as described, for operating the valve of the outlet-pipe, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses. 40

EUGENE DIETERICH.

Witnesses:

H. L. JEFFERS,
H. BIRD SCOTT.