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PATENTED AUG. 7, 1906.

T. F. FOLEY.

COMBINED VENTILATOR AND CLEAN-OUT FOR SEWER TRAPS.

APPLICATION FILED JAN. 5, 1906.

Fig. 1.

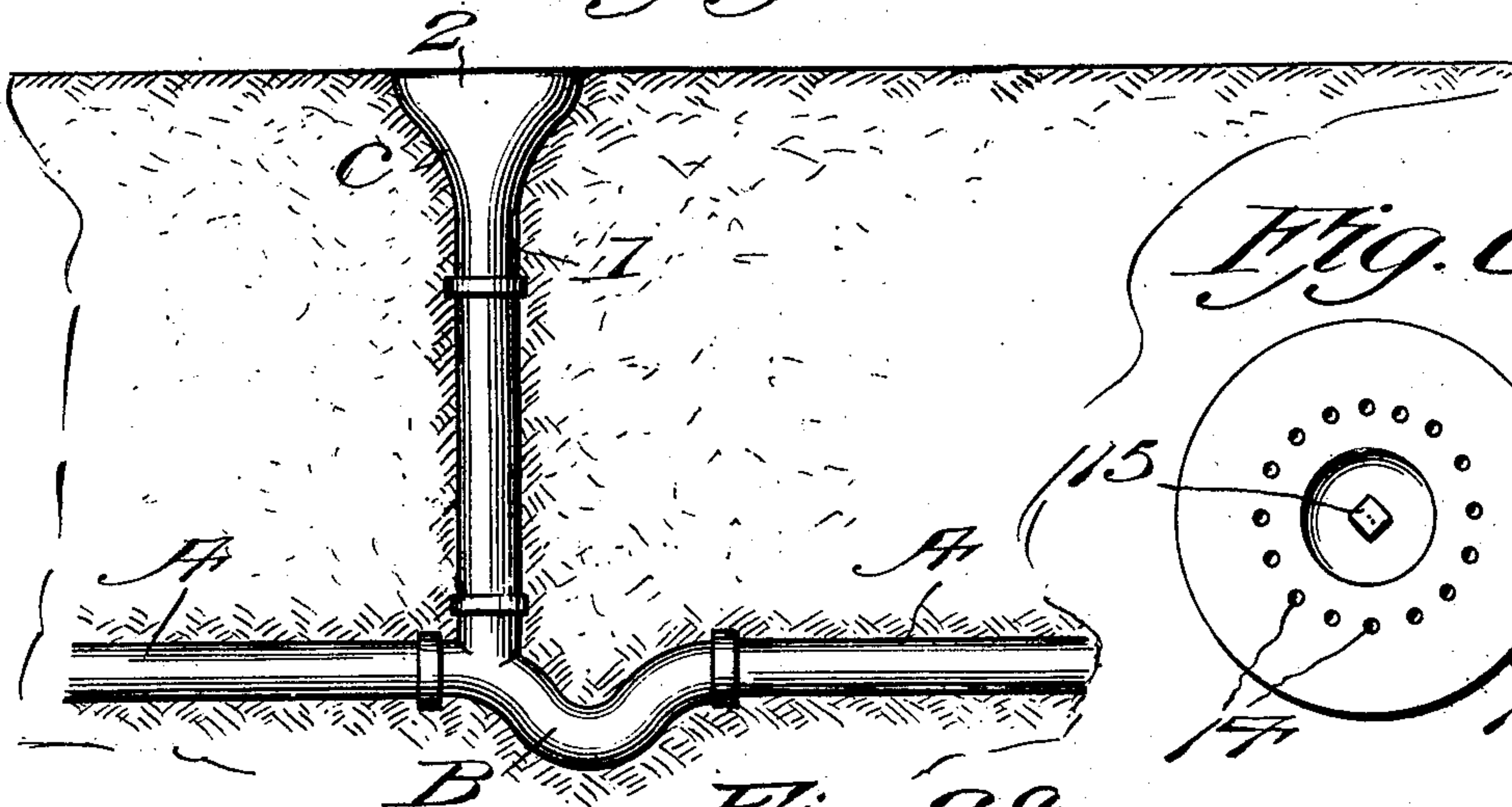


Fig. 6.

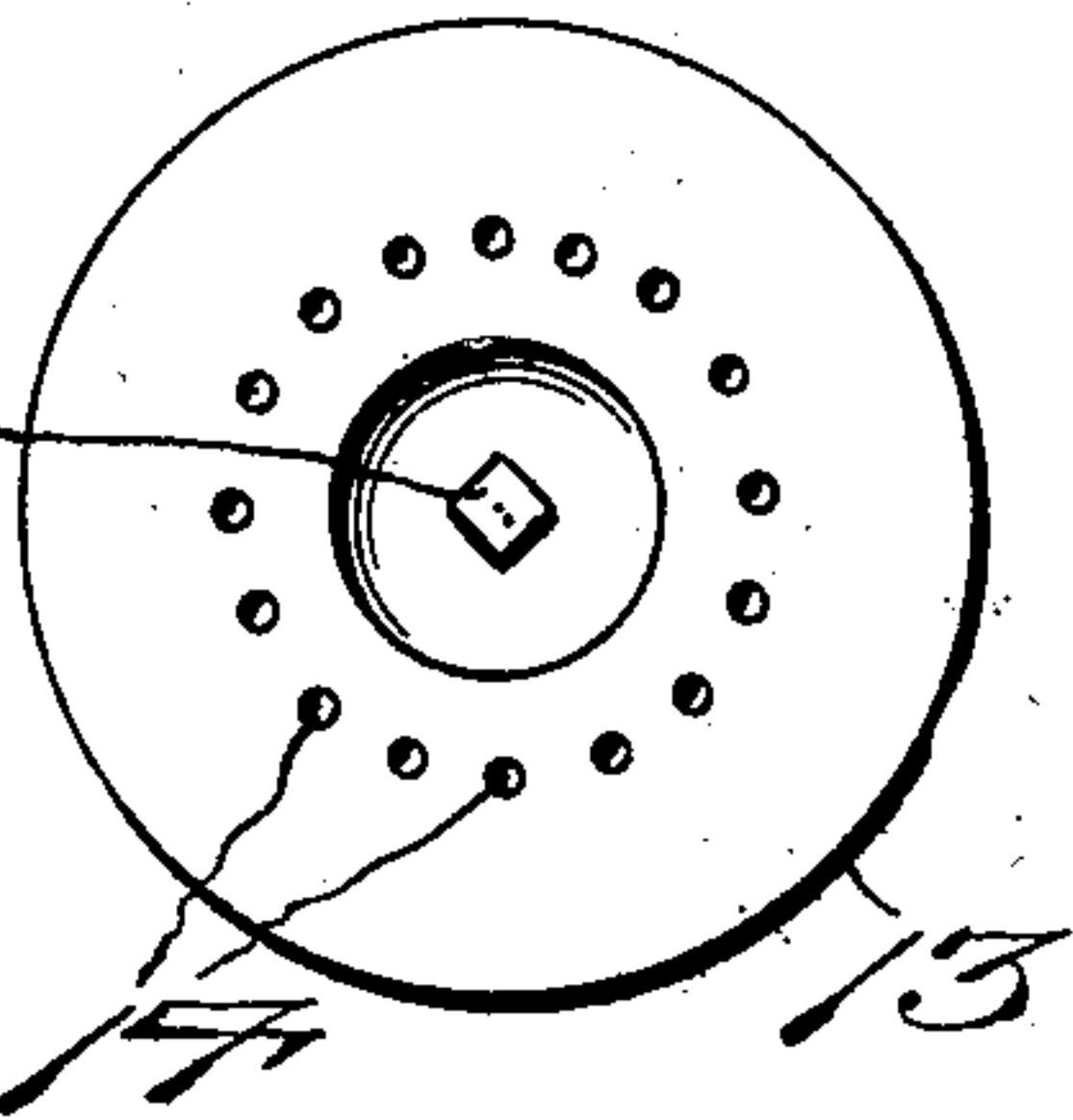


Fig. 2^a

Fig. 2^b

Fig. 3.

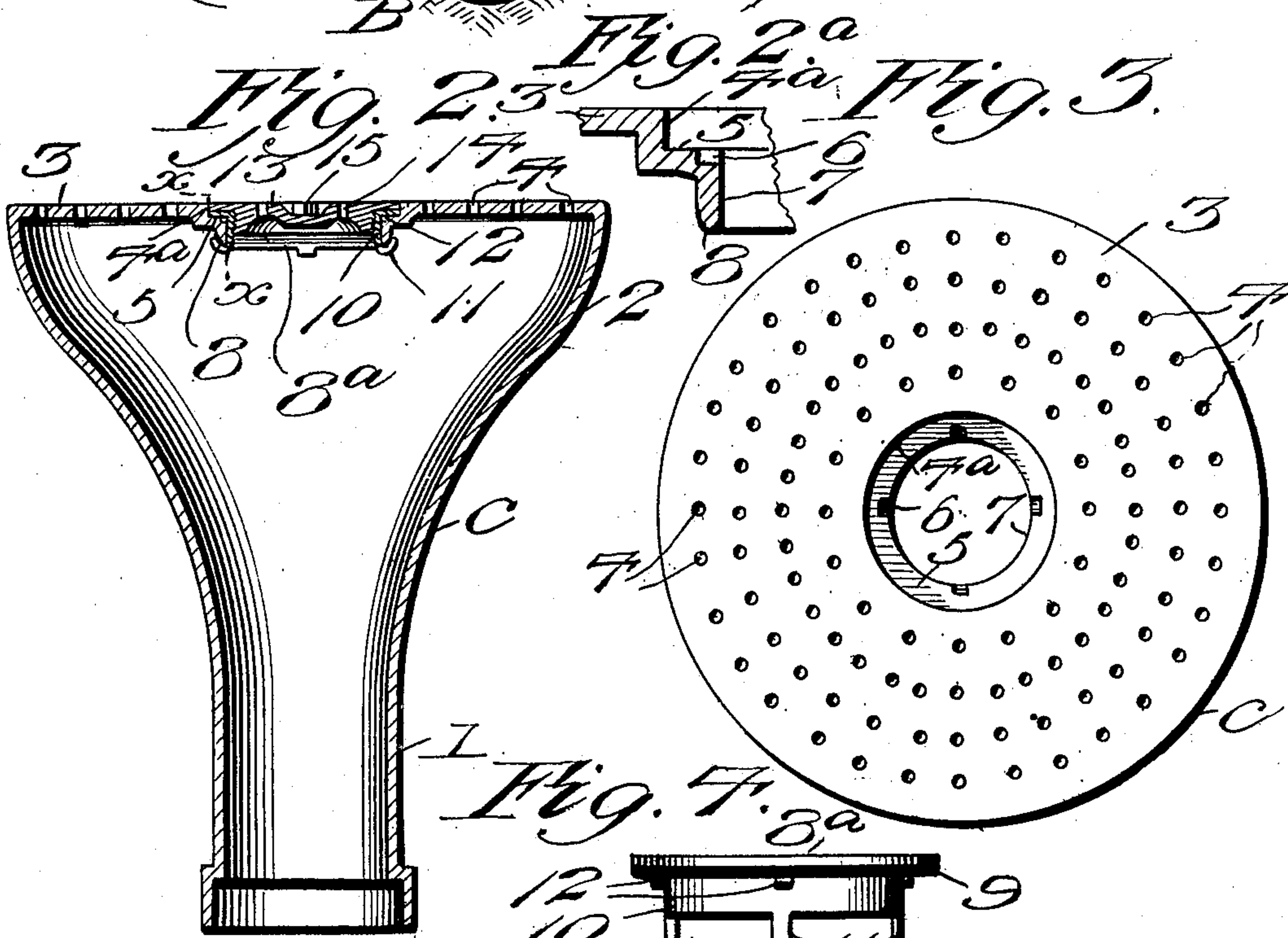


Fig. 4^a



Fig. 7.

Fig. 8.

Fig. 5.



Witnesses
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COMBINED VENTILATOR AND CLEAN-OUT FOR SEWER-TRAPS.

No. 827,858.

Specification of Letters Patent.

Patented Aug. 7, 1906.

Application filed January 5, 1906. Serial No. 294,808.

To all whom it may concern:

Be it known that I, THOMAS F. FOLEY, a citizen of the United States, residing at Washington, in the District of Columbia, have invented new and useful Improvements in a Combined Ventilator and Clean-Out for Sewer-Traps, of which the following is a specification.

My invention relates to a combined ventilator and clean-out for sewer-traps.

The object of my invention is to simplify and improve the existing art by providing a ventilator and clean-out for sewer-traps which is extremely simple and cheap in construction, which is easily handled, and which will efficiently accomplish the purpose for which it is intended.

My invention resides in the novel construction of a combined ventilator and clean-out formed of an iron casting comprised of a single member provided with a perforated top portion for the free inlet of air and a detachably-connected brass cap for access to a sewer-trap.

My invention further resides in the novel manner of securely connecting a brass cap to the iron casting, whereby the liability of oxidation is obviated and the cap readily removable.

To these purposes my invention resides in the novel and peculiar features of construction and assemblage of parts, as will hereinafter be more fully described and claimed.

The preferred embodiment of my invention is fully and clearly illustrated in the accompanying drawings, which are to be taken as part of this specification.

In the drawings, Figure 1 is a view of a sewer-trap, showing my improvement in position. Fig. 2 is an enlarged sectional view of my improvement. Fig. 2^a is a detail section taken on the line *x x* of Fig. 2. Fig. 3 is a top plan view of my invention, the brass bushing and cover being removed. Fig. 4 is a side elevation of the brass bushing. Fig. 5 is a bottom plan view of the same. Fig. 6 is a plan view of the removable cover. Figs. 7 and 8 show modified forms of the invention.

In the drawings, A indicates a sewer-line, B the sewer-trap, and C my improved ventilator and clean-out.

As shown, my improvement contemplates a single conical-shaped casting the upper portion of which is adapted to lie on a level with the ground. The generally-adopted ventilators and clean-outs for sewers now in

use consist of a casting constructed of iron and constituting a substantially V-shaped structure, one member of which is provided with a removable head which forms a means for access to the sewer-trap, while the other member has calked to its free end a perforated plate which affords an entrance of air to the sewer and house-pipes. This structure is expensive in formation and cumbersome for handling, as well as requiring considerable time and expense in calking the perforated plate to the air-inlet member of the casting. Furthermore, the air-inlet plate being of a size approximately the same and never greater than the circumference of the other member of the casting, a comparatively small surface is afforded for the entrance of air to the sewer-trap.

As shown in the drawings, my improved ventilator and clean-out comprises a cast-iron casting consisting of a lower portion 1, equal in diameter to the sewer-pipe A', to which it is connected, and an enlarged substantially bowl-shaped upper portion 2.

Formed upon the upper surface of the casting C is an annular flange 3, provided with perforations 4. These perforations are adapted to serve as an entrance for air to the sewer-trap and may be of any form or shape and arranged in any preferred manner best suited for the purpose for which they are designed. The annular flange 3 is provided at its periphery with a depending wall 4^a, from which is formed the annular horizontal surface 5, provided at its periphery with depressions or recesses 6 and having its depending vertical wall 7 formed at its lower extremity with the annular lip 8.

For the sake of economy the casting above described is formed of cast-iron. The removable cap, however, which closes the clean-out opening of the casting cannot be constructed of iron on account of the liability of oxidation and disintegration by rust, which causes adhesion of the two parts and prevents the ready removal of the cap in using the clean-out. To obviate such objections, I provide an interiorly-threaded bushing 8^a, constructed of brass and provided with a horizontal flange 9 and a body portion 10. The lower extremity of the body portion 10 is provided with fingers 11, adapted to engage the lip 8 of the casting 2, while lugs 12 are provided at suitable intervals upon the bushing 8^a at the meeting of the body portion 10 and the flange 9 of the bushing 8^a and are adapted to

engage the recesses 6 of the casting 2, thus forming a compact, cheap, and reliable connection of the two metals. A threaded cap 13, constructed of brass and preferably provided with air-inlet openings 14 and a wrench-hold 15, is provided for engagement with the interiorly-threaded brass bushing 8^a. This construction, it will readily be seen, provides a cheap, efficient, and thoroughly-reliable device and one which overcomes the objections to the structures now in use.

In Figs. 7 and 8 I have shown constructions involving the same principle, but showing different forms in which my device may be constructed.

Changes in the precise embodiment of the invention illustrated and described may be made within the scope of the following claims without departing from the spirit of the invention or sacrificing any of its advantages.

Having thus described the invention, what is claimed as new is—

1. A combined ventilator and clean-out for sewer-traps comprising a casting formed with ventilating-openings and with a clean-out opening included within the area of the casting, and a removable cover for the clean-out opening.

2. In a combined ventilator and clean-out for sewer-traps, a casting having a cover pro-

vided with ventilating-openings and a cleaning-opening, said cleaning-opening having an annular shoulder provided at its periphery with recesses and a depending flange, an interiorly-screw-threaded bushing having projections adapted to engage the recesses of the casting, and fingers adapted to engage with the depending flange of the casting and a threaded closure engaging the interiorly-threaded bushing.

3. In a combined ventilator and clean-out for sewer-traps, a casting having a cover provided with ventilating-openings and a cleaning-opening, said cleaning-opening having an annular shoulder provided at its periphery with recesses and a depending flange, an interiorly-screw-threaded bushing having projections adapted to engage the recesses of the casting, and fingers adapted to engage with the depending flange of the casting and a threaded closure provided with air-inlet openings and adapted for engagement with the interiorly-threaded bushing.

In testimony whereof I affix my signature in presence of two witnesses.

THOS. F. FOLEY.

Witnesses:

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