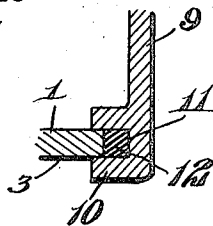
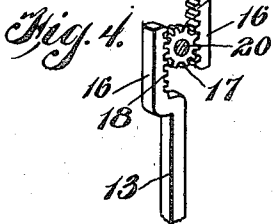
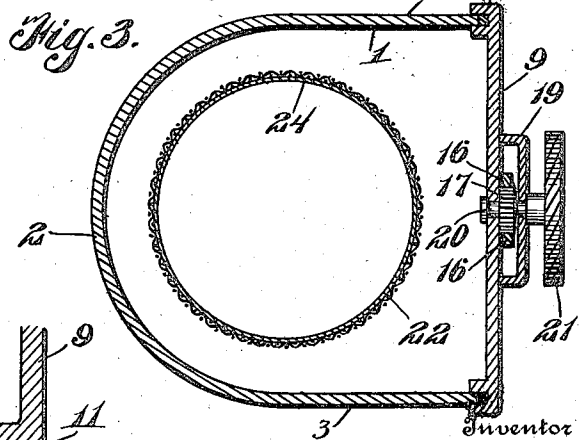
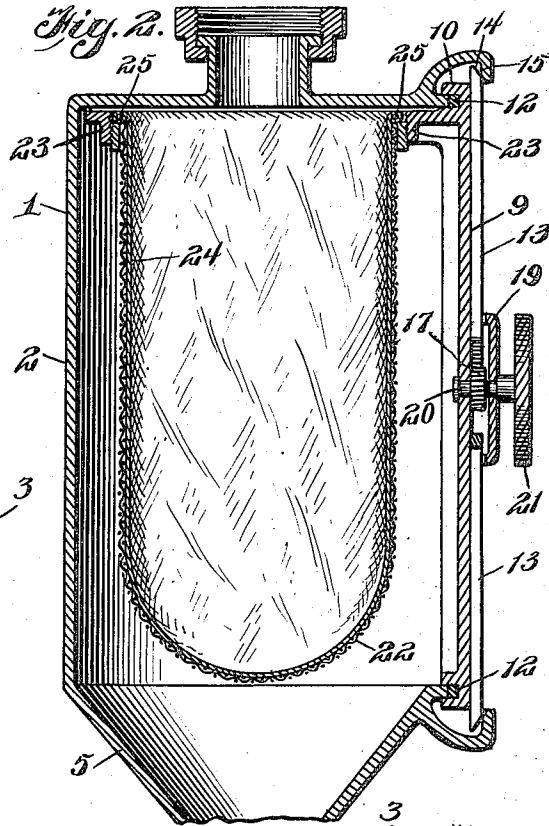
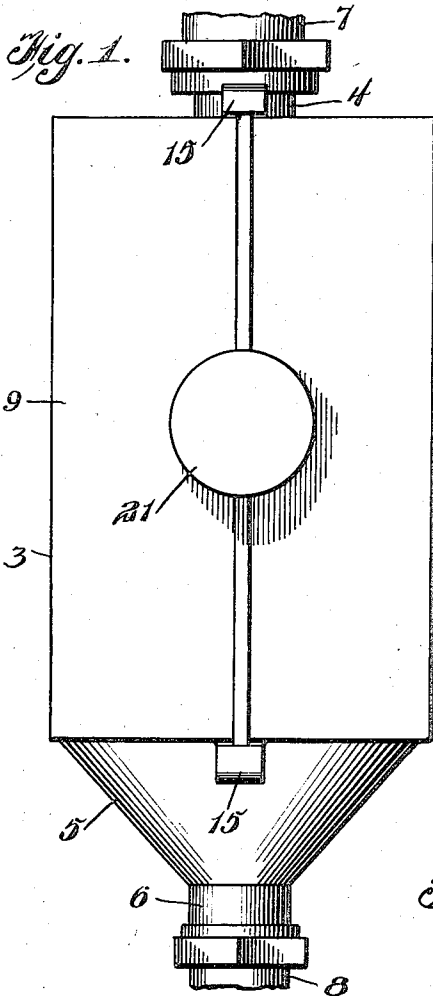


Q. J. ST PIERRE.
SINK TRAP.
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1,284,944.

Patented Nov. 12, 1918.



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SINK-TRAP.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, OCTAVE J. ST. PIERRE, a subject of the King of Great Britain, residing at Chauvin, in the Province of Alberta and Dominion of Canada, have invented new and useful Improvements in Sink-Traps, of which the following is a specification.

This invention relates to traps for use in connection with kitchen sinks and the like, the object of the invention being to provide a trap to fit within the drain or waste pipe beneath the sink and which is adapted to catch and retain all dirt, solid refuse and grease and prevent the same from passing into and clogging the pipe.

A further object of the invention is to provide a trap which will exclude all gases or odors, and which may be quickly and conveniently cleaned when required.

The invention consists of the features of construction, combination and arrangement of parts, hereinafter fully described and claimed, reference being had to the accompanying drawing, in which:—

Figure 1 is a front elevation of the trap as applied for use.

Fig. 2 is a vertical front-to-rear section through the same.

Fig. 3 is a horizontal transverse section.

Fig. 4 is a view of the door and latch mechanism.

Fig. 5 is a detail section showing particularly the sealing means.

In carrying my invention into practice I provide a trap comprising a casing 1 having a curved rear wall 2 and flat parallel side walls 3, forming a casing devoid of interior angles and thus adapted to be readily and conveniently brushed or otherwise cleansed. The casing is open at the front and adapted to be closed by a type of cover, hereinafter described, and said casing is provided at its upper end with an inlet 4 and terminates at its lower end in a conical discharge portion 5 leading to an outlet 6. In practice the inlet 4 and outlet 6 are suitably coupled to portions 7 and 8 of the drain pipe leading from the outlet of the sink, whereby all the waste water and refuse discharging from the sink will be caused to pass into the trap before final discharge.

A removable door 9 is provided for closing the open front of the casing 1, and this door is adapted to fit within the front of the casing and is formed with a marginal flange 10 to snugly embrace the outer faces of the wall 3 when the cover is in closed position. Adjacent to the flange 10 the cover 9 is also provided with a marginal groove or recess 11 to receive a packing or sealing gasket 12, of rubber or other suitable material, whereby when the door is closed an air, gas and liquid tight connection will be furnished to prevent the escape of gases or odors from the trap, as well as the leakage of any of its liquid contents.

The door is detachably fastened in closed position by locking means comprising a pair of oppositely movable locking rods 13, said rods being substantially in axial alignment with each other, one of the rods projecting upwardly and the other downwardly. The outer ends of the rods terminate in tapered locking ends 14 for engagement with conical or tapered keeper recesses or sockets 15 formed at the top and bottom of the casing, whereby when the ends 14 of the rods are projected the door will be securely locked in closed position. The tapered ends 14 of the locking rods are adapted when engaged with the tapered sockets to exert a wedging action whereby an inward pressure will be exerted on the door to crowd the gasket 12 against the edges of the walls 3, thus sealing all spaces between the casing and door against any possibility of leakage. The inner ends of the rods 13 have offset portions 16 arranged to lie in parallel relation and spaced from each other to receive an intermediate pinion 17, the said offset portions 16 being provided with gear teeth 18 and forming racks for engagement with the pinion, whereby when the pinion is turned in one direction the rods or bolts will be projected and when the pinion is turned in the opposite direction the rods or bolts will be retracted. The mechanism for operating the rods is inclosed within a casing 19, and the gear pinion 17 is mounted upon a shaft provided with an operating handle 21, whereby the locking mechanism may be conveniently manipulated from the outside so as to permit the door to be unlocked and

opened when it is desired to secure access to the trap and also to enable the door to be locked when applied in closed position.

Arranged upon the inner side of the door 5 is a trap basket 22 composed of wire or other suitable mesh material suitably secured to the door and to an upper frame ring 23 arranged at its upper open end or mouth portion. This basket is supported by 10 the door in spaced relation to the walls of the trap, which is arranged immediately below the inlet 4 so as to receive all the waste matter discharging from the sink into the trap. The basket will thus retain all solid 15 refuse or particles of matter, but will permit the water to discharge for outlet from the trap, thus preventing the passage to the drain or waste pipe of any solid particles liable to clog the same. It will be evident 20 that upon unlocking and removing the door the basket with its contents will be withdrawn therewith, allowing such contents to be readily removed and the interior of the trap to be cleansed of all adhering deposits 25 in a rapid and thorough manner.

I may provide for use within the basket 22 a strainer sack 24 composed of fine gauze material of any suitable sort secured at its mouth to a supporting and sustaining ring 30 25. This strainer sack is designed to fit within the basket 22 and to be supported from the mouth thereof. The purpose of this sack is to catch and retain any grease which might possibly discharge through the 35 meshes of the basket, thus enabling the grease to be caught and saved for any de-

sired use and also preventing passage of the same to the waste pipe and the objections resulting therefrom.

It will be seen from the foregoing de- 40 scription that my invention provides a trap for use with kitchen sinks which is not only simple of construction and capable of being applied for use at a low cost, but which will effectually prevent clogging of the waste 45 pipe and the escape of gases or odors, while at the same time admitting of the removal of the trapped particles and thorough cleansing of the trap, whenever desired, in a thorough and convenient manner. Other 50 advantages incident to the invention will be readily understood from the foregoing description.

Having thus fully described my invention, I claim:— 55

1. A trap for use with kitchen sinks comprising a casing having an inlet at its top and an outlet at its bottom, a removable cover closing the open front of said casing, means for securing said cover in position, 60 and a bag carried by the cover and removable therewith.

2. A trap for use with kitchen sinks comprising a casing having an inlet at its top and an outlet at its bottom, a removable 65 cover closing the open front of said casing, means for securing said cover in position, a supporting ring carried by the cover, and a bag carried by the ring and depending therefrom and removable with the cover. 70

In testimony whereof I affix my signature.
OCTAVE J. ST. PIERRE.