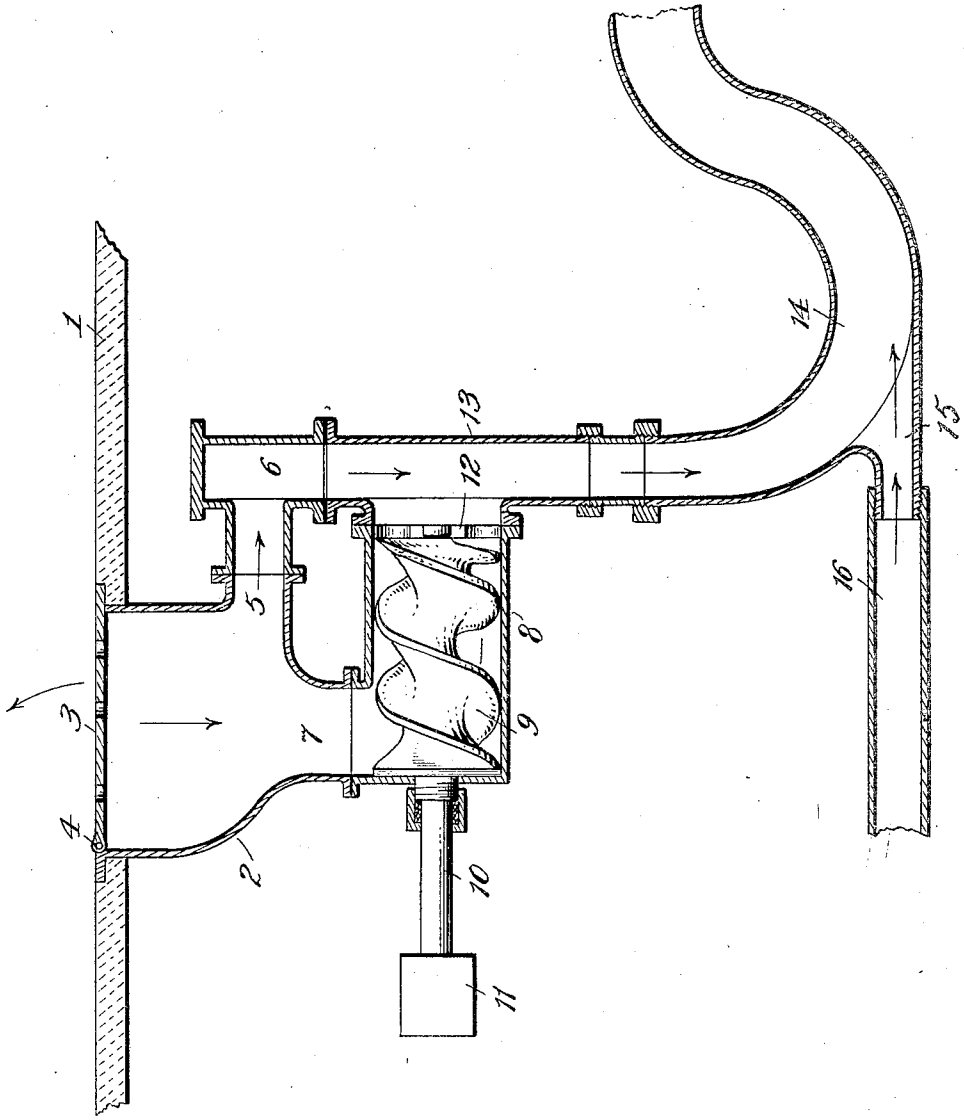
Oct. 22, 1929. J. SHAVER 1,732,775

REFUSE DISPENSER

Filed March 19, 1927



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UNITED STATES PATENT OFFICE

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REFUSE DISPENSER

Application filed March 19, 1927. Serial No. 176,757.

My invention relates to new and useful improvements in refuse dispensers and has for its principal object the provision of a device of this character which is adapted to be connected to a sink to receive the refuse through the usual drain opening in the sink and to dispose of the same through the usual drain pipe.

Another object of the invention resides in the provision of a grinding device whereby the refuse may be ground and then washed through the drain pipe for disposal.

A further object of the invention consists in the provision of means whereby the refuse may be washed from the trap formed in the drain pipe so as to prevent clogging within the trap.

With the above and other objects in view, which will appear as the description proceeds, my invention consists in the novel details of construction, and arrangement of parts, described in the following specification and illustrated in the accompanying drawings, and while I have illustrated and described the preferred embodiments of the invention, as they now appear to me, it will be understood that such changes may be made as will fall within the scope of the appended claims.

In the drawings I have illustrated a longitudinal vertical section with parts shown in side elevation.

In the drawings 1 indicates a fragmental portion of the bottom of a sink of usual construction having an opening through which extends and is supported the upper part of a hopper 2. A perforated drain cover 3 is hingedly connected at 4 to the top of the hopper and when in closed position allows water to drain from the sink and when raised or opened allows refuse to be placed within the hopper. The hopper is formed with the laterally extending outlet 5 which is connected to the upper section 6 of the drain pipe and the bottom outlet 7 which has connected thereto the housing 8 for the spiral grinding cylinder 9. Secured to the grinding cylinder is a shaft 10 which is driven from an electric motor 11 or other suitable source of power for operating the grinding cylinder. A perforated end plate 12 is secured within the end of the housing 8 and the ground refuse is forced through the openings and into the section 13 of the drain pipe, the upper end of which is secured to the section 6. Secured to the lower end of the section 13 of the drain pipe is the trap 14, the opposite end of which is secured to the usual sewer connection. An extension 15 is formed at the bottom of the trap 14 and has connected thereto a water pipe 16 for a purpose to be later described.

From the above detailed description it is thought that the construction will be clearly understood and I will now endeavor to more fully bring out the operation. When the perforated drain cover 3 is lowered into the position shown in the drawings the sink is used in the usual manner and the water therefrom will drain through the perforations in the drain cover and into the hopper 2. A certain amount of the water will necessarily flow through the grinder housing into the drain pipe section 13 while the greater amount of the water will drain through the outlet opening 5 and through the sections 6 and 13 of the drain pipe into the trap 14 from which it is discharged into the sewer connection. When it is desired to dispose of refuse the drain cover 3 is raised and the refuse placed within the hopper 2 from which it is discharged into the grinder housing 8. The grinding cylinder is then operating through means of the electric motor 11 or other suitable source of power to grind the refuse and discharge the same into the section 13 of the drain pipe. With the water turned on for discharge into the sink the ground refuse will be readily washed through the pipe section 13, it being understood that a certain amount of water will be passed through the grinder housing whereas another amount of water will be passed through the outlet 5 into the pipe section 6 for discharge upon the top of the ground refuse within the section 13 to aid in the discharge thereof. In order to prevent the accumulation of the ground refuse within the trap 14 and to prevent clogging of the trap water will be discharged through the pipe 16 and extension 15 to aid in discharging the ground refuse through the trap. It will

thus be seen that not only have I provided ready means for grinding refuse but the device is so constructed that the water is discharged in a manner to readily flow the ground refuse through the drain pipe and through the drain trap.

With the use of a device of the character described I may readily dispose of all refuse and garbage except hard articles such as bones and with the use of the device I do away with the necessity of garbage or refuse containers and the hauling and burning of the same.

Having fully described my invention what I claim as new and desire to secure by Letters Patent is:

1. In combination with a sink adapted to receive water and having a discharge outlet, a hopper positioned beneath the discharge outlet and adapted to receive refuse, means for grinding the refuse, a drain pipe adapted to receive the ground refuse, and means for discharging water flowing from the sink into the drain pipe at a point above the entry of the ground refuse.

2. In combination with a sink adapted to receive water and having a discharge outlet, a hopper positioned beneath the discharge outlet and adapted to receive refuse, means for grinding the refuse, means for discharging part of the water flowing from the sink into the drain pipe at the point where the ground refuse enters the drain pipe, and means for discharging the other part of water into the drain pipe at a point above the point where the ground refuse enters the drain pipe.

3. In combination with a sink adapted to receive water and having a discharge outlet, a hopper positioned beneath the discharge outlet and having a bottom opening and a side opening, said hopper being adapted to receive refuse, a housing secured to the hopper and having an opening communicating with the bottom opening thereof, a drain pipe communicating with the housing and the side opening of the hopper, and means within the housing for grinding refuse received from the hopper and to discharge the same into the drain pipe, water from the sink passing through both the bottom and side openings of the hopper to flow the ground refuse through the drain pipe.

In testimony whereof I hereunto affix my signature.

JOE SHAVER.