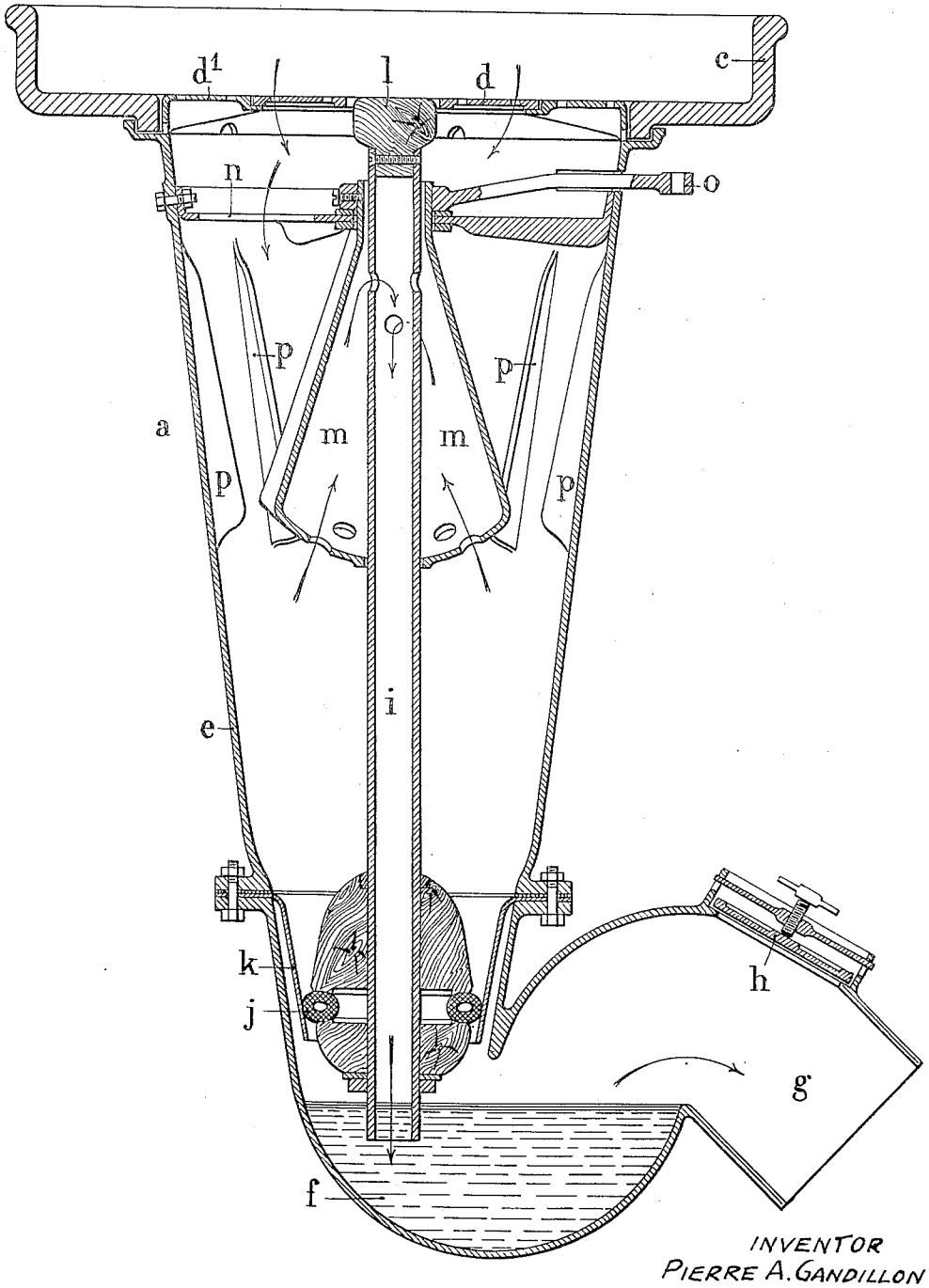
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SINK

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Fig. 1.




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## SINK.

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The invention relates to sinks and more particularly to kitchen sinks, and has for its object to produce a sink in which the voluminous bodies which may be contained in the kitchen rubbish or refuse are reduced in size.

A further object of the invention is to provide a sink in which the bad odors are effectively prevented from arising from the solid and liquid matter which have been evacuated from the sink.

The invention will be described hereafter, by way of example, with reference to the accompanying drawing in which the figure is a vertical section of the improvement.

Referring to the drawing *a* represents the sink which as shown is composed of the basin *c* and the conical body *e* depending from the basin. In the bottom of the basin *c* two concentric grates *d d'* are mounted and to the lower end of the conical body *e* is secured a water seal *f* provided with an outlet branch *g* for the descending pipe and with an inspection plug *h*. Within the conical body *e* is arranged a depending central tube *i* perforated at its upper part and surrounded at its lower part by a flexible packing *j* fitted in a fixed conical cup *k* at the lower end of the conical body, whilst the upper part of the said tube *i* is provided with a head *l* constituting a pulling out member.

The vertical space comprised between the flexible packing *j* and the upper perforations of the tube *i* constitutes a chamber receiving the water of the sink cock.

About the tube *i*, at its upper part, is provided a movable hollow core *m* the neck portion of which is fitted in a perforated diaphragm *n* secured in the body *e*.

This movable cone is actuated, when necessary, by a horizontal lever *o* so as to reduce to a suitable dimension, under the water plane of the overflow, the voluminous bodies which come between the said core and fixed blades *p* arranged in the body *e*.

The plunger tube *i* can be pulled up by pulling it by its head *l* after removal of the central grate *d*, so that the matters reduced to a suitable size and immersed in the chamber filled with water can be evacuated in the form of a mass at the lower part by causing them to pass the flexible packing *j* and the wall of the fixed conical cup *k*. The water to be evacuated, poured into the basin passes through the grates *d*, $d^1$ and the diaphragm *n*, ascends in the body of the apparatus, passes through perforations in the hollow core *m*, fills up the latter, passes through the upper perforations of the central tube *i* and fall to the bottom of the apparatus and from there in the descending pipe *g* which leads it to a collecting apparatus.

The forms, details, accessories, materials and dimensions above mentioned can of course be varied without departing thereby from the principle of the invention.

Claims:

1. A sink, comprising a basin having a grate in its bottom, a body depending from the basin and carrying a trap at its lower end, a pulverizing device in the body, and a vertically movable pipe in the body and extending into the trap, the pipe being provided adjacent its upper end with openings and adjacent its lower end with means whereby the upper end of the trap may be closed.

2. A sink comprising a basin having a grate in its bottom, a conical body depending from the basin and carrying a trap at its lower end, the body being provided on its inner face with blades, a hollow conical member provided with openings and mounted to turn in the upper part of the body, and a vertically movable pipe extending through the conical hollow members and into the trap, the pipe being provided with openings in the hollow conical member and adjacent its lower end with means whereby the upper end of the trap may be closed.

3. A sink, comprising a basin, a conical body depending from the basin and having blades on the inner face a trap secured to the lower end of the body and having a conical member in its upper part, a conical hollow and apertured member mounted to turn in the body and provided with means for turning it, and a vertically movable pipe extending through the hollow conical member into the trap, said pipe having openings in the part within the hollow conical member and provided adjacent its lower end with a packing for engaging the conical member of the trap to close the upper end of the trap.

4. A sink, comprising a basin provided with a grate and a central opening in its bottom, a body depending from the basin and carrying a trap at its lower end, a pulverizing device in the body and including a hollow apertured member mounted to turn, a vertically movable pipe provided at

its upper end with a head extending in the central opening of the basin, said pipe extending through the hollow member of the pulverizing device into the trap, the portion of the pipe in said member being provided with openings, and a packing on the pipe adjacent its lower end for closing the upper end of the trap.

5. A sink comprising a basin having two concentric grates in its bottom, the inner grate being provided with a central opening, a conical body depending from the basin and having blades on its inner face, a trap on the lower end of the body and having a conical tubular member in its upper part, a perforated partition in the upper part of the body, a conical hollow member mounted to turn in the partition and provided with openings, a handle for turning said member, a vertical movable pipe in the body said pipe having at its upper end a head extending into the central opening of said grate, said pipe extending through the conical hollow member and into the trap, the portion of the pipe in the conical hollow member being provided with openings and a packing on the said pipe adjacent its lower end and engaging the conical tubular member of the trap.

Signed by me this 18th day of December 1924.

PIERRE ALBERT GANDILLON.