W. R. GESSLER.

COMBINATION DRAINER AND STOPPER.

APPLICATION FILED JUNE 27, 1916.

1,203,530. Patented Oct. 31, 1916.

Fig. 1.

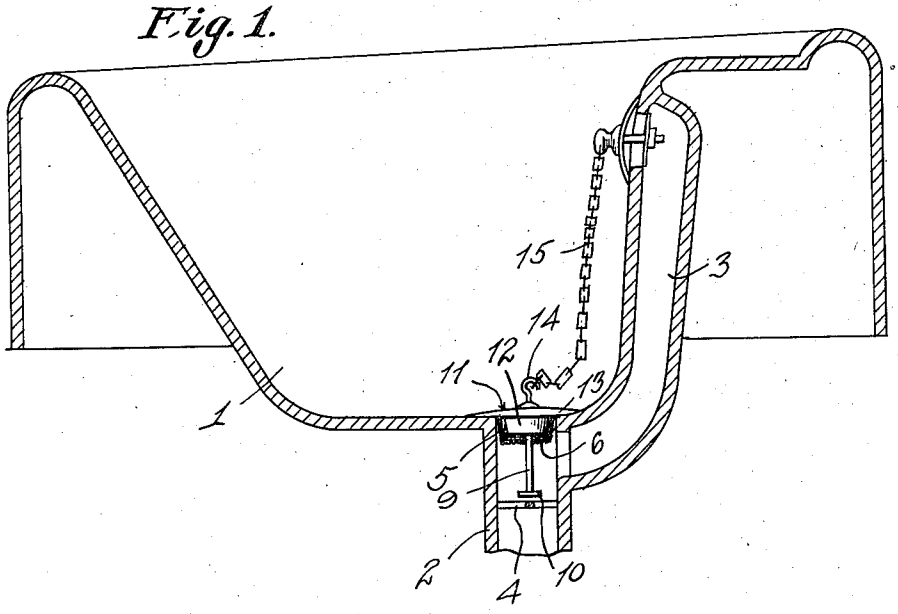
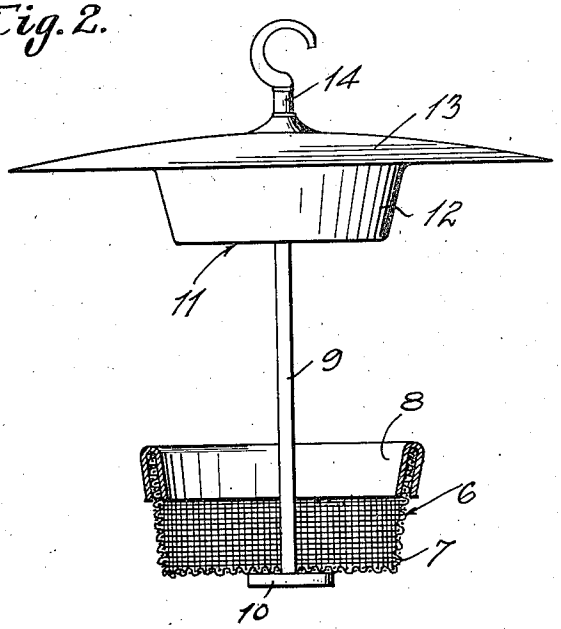


Fig. 2.



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COMBINATION DRAINER AND STOPPER.

1,203,530. Specification of Letters Patent. Patented Oct. 31, 1916.

Application filed June 27, 1916. Serial No. 106,191.

To all whom it may concern:

Be it known that I, WILLIAM R. GESSLER, a citizen of the United States, residing at Bronx, New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Combination Drainers and Stoppers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to new and useful improvements in combination drainer and stopper, and is particularly adapted for use in connection with sinks, wash basins and the like.

The principal object of the invention is to provide a device which is adapted to prevent trash from entering a drain and stopping the same.

Another object of the invention is to provide a device which is so constructed as to provide a plug for controlling the flow of the liquid from the basin.

A still further object of the invention is to provide a device which may be easily and cheaply constructed of a suitable screen wire or similar material and which may be readily placed in position or removed from the drain in order that the same may be readily cleaned.

With these and other objects in view, the invention consists in the novel combination and arrangement of parts which will be fully set forth in the following specification and accompanying drawing, in which:—

Figure 1 is a view illustrating the device in use, and Fig. 2 is an enlarged detail view illustrating the structure of the drainer and stopper.

Referring to the drawing 1 designates a basin of the ordinary construction provided with the usual drain pipe 2. The usual overflow 3 is provided and mounted in the drain pipe below the point where the overflow joins the drain pipe in the ordinary cross 4 which forms a baffle to prevent solid matter from entering the drain pipe. The usual plug seat 5 is formed at the upper end of the drain pipe and in this seat is adapted to rest the drainer and stopper which will be more fully hereinafter described.

The drainer is designated generally by the numeral 6 and consists of a cup shaped body 7 formed of a wire netting and provided at its upper edge with the metallic binding 8. As shown in the drawing the device tapers toward its lower end so as to fit on the seat 5 and form a liquid tight joint in the manner illustrated in Fig. 1. A central opening is formed in the bottom of the cup shaped body 7 and slidably mounted in said opening is the rod 9 provided at its lower end with the head 10. The upper end of the rod carries the stopper designated by the numeral 11 consisting of the frustoconical body 12 which is adapted to fit within the cup 6 and engage the inner face of the binding strip to form a liquid tight joint. A flange 13 is formed at the upper end of said body which consists of a relatively thin flexible rubber and is adapted to rest on the bottom of the basin immediately adjacent the drain opening. A hook 14 is attached to the upper side of the plug and has connected thereto the chain 15 which is connected at its upper end to any suitable support as shown in Fig. 1.

It will be apparent from the foregoing that in use the device is inserted in the drain opening of the basin as illustrated in Fig. 1 and when it is desired to close the opening the stopper body 12 is moved downwardly into the cup shaped body 6 and in such a way that the flange 13 will engage the bottom of the basin immediately adjacent the drain opening thus forming a liquid tight joint which will prevent the liquid contained within the basin from flowing out. When it is desired to drain the basin upward pull on the chain 15 will cause the stopper to be moved upwardly and such upward movement will slide the rod 9 through the opening in the bottom of the cup shaped body until the head 10 engages said body and should it be desired to remove the cup further pull on the hook will withdraw the device from its position and it will be apparent that any matter gathered in the drain may be readily removed.

While in the foregoing there has been shown and described the preferred embodiment of this invention, it is to be understood that such changes may be made in the combination and arrangement of parts as will fall within the spirit and scope of the appended claims.

What is claimed is:—

1. The combination with a basin having a drain opening therein, of a cup shaped strainer formed of wire mesh, a binding

strip at the upper edge of said strainer adapted to fit against the wall of the drain opening, said strip being inclined to wedge into the drain opening and form a liquid tight joint between the wall of the opening and the strip and a plug adapted to fit within the strainer, the side walls of the plug being inclined to engage the inner face of the binding strip and form a liquid tight joint between the plug and strip thereby insuring against the escape of liquid from the basin when the plug and strainer are in place.

2. A device of the class described comprising a foraminous cup adapted to fit in the drain opening of a basin, a rod slidable through the bottom wall of the cup, a head at the lower end of the rod, a plug at the upper end of the rod, the plug being adapted to fit into the cup, a flange on the plug adapted to engage the bottom of the basin immediately adjacent the drain opening to form a liquid tight joint and a hook on the upper side of the plug whereby the plug may be seated and unseated, said hook also allowing the user to remove the device from position in the drain opening to allow the strainer to be cleaned.

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

WILLIAM R. GESSLER.

Witnesses:

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