May 9, 1950 F. W. HEUACKER 2,506,669

DRAINPIPE STOPPAGE PREVENTER

Filed June 13, 1947

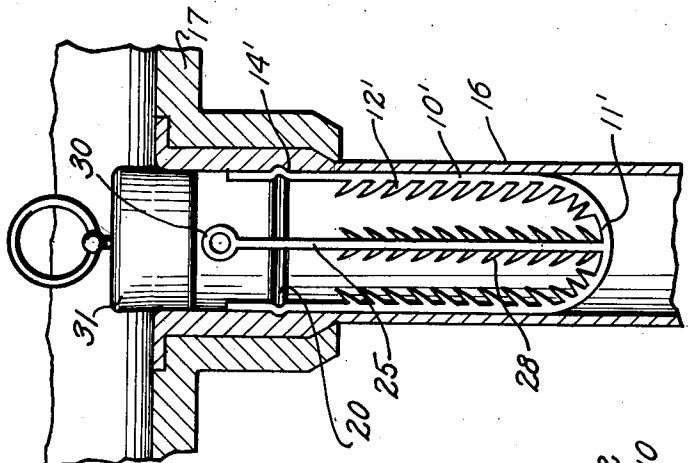


Fig. 4

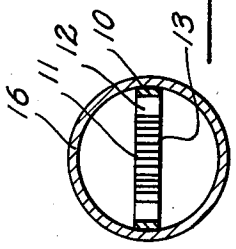


Fig. 2

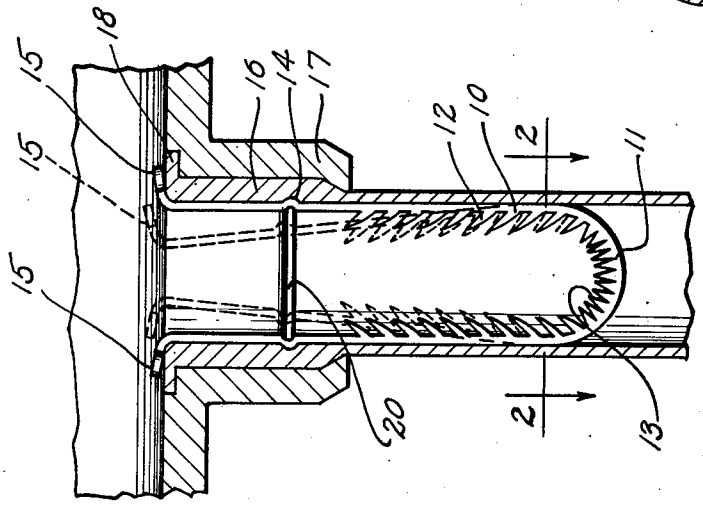


Fig. 1

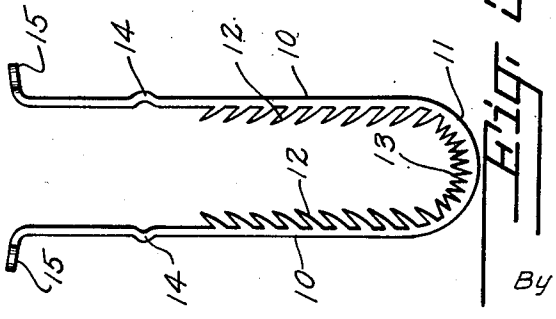


Fig. 3

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DRAINPIPE STOPPAGE PREVENTER

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1 Claim. (Cl. 4—292)

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This invention relates to a drain pipe stoppage preventer, and more particularly to such a device adapted to be utilized in basins in beauty parlors and barber shops, to prevent the passage of hair into the drain, resulting in a stoppage thereof.

A primary object of the invention is the provision of a means adapted to be inserted in the basin outlet to catch hair, lint, hairpins, and the like, to prevent the passage thereof into the trap of said fixture, or further into the drain pipe; thus causing a stoppage.

An additional object of the invention is the provision of such a device provided with a plurality of relatively sharp pointed prongs, for the purpose of arresting such foreign matter as mentioned above, and the same may be easily inserted or removed from basin outlet fitting for the cleaning of same, or the replacement of a new one.

A further object of the invention is the provision of such a device which is flexible yet durable in construction, reliable and efficient in operation, and relatively simple and inexpensive to manufacture and install.

Still other objects will in part be obvious and in part be pointed out as the description of the invention proceeds, and shown in the accompanying drawings, wherein there are disclosed preferred embodiments of this inventive concept.

In the drawings:

Figure 1 is a vertical sectional view taken through the basin outlet fitting disclosing one form of my invention in position therein, an alternative position being disclosed in dotted lines.

Figure 2 is a sectional view taken substantially along the line 2—2 of Figure 1, as viewed in the direction indicated by the arrows.

Figure 3 is a plan view of my device shown as disassociated from the drain pipe basin outlet fitting.

Figure 4 is a vertical sectional view similar to Figure 1, but disclosing a modified form of construction. This form is desirable in homes, apartments, hotels, and the like, where a rubber stopper is required in the basin. This type of stoppage-preventer may also be easily removed and replaced.

Similar reference characters refer to similar parts throughout the several views of the drawings.

With reference now to the drawings, and particularly to the modification disclosed in Figures 1 to 3, inclusive, this device comprises a U-shaped member including two upright legs 10 and a connecting lower extremity 11. The member may

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be made of metal, plastic, or other suitable material. The inner side of the upright member 10 is provided with a plurality of spaced upwardly extending teeth 12 along the inner side thereof, while the base portion 11 is provided with similar upwardly projecting teeth 13. Each upright leg 10 is provided at a point above the teeth 12 with a protuberance or projection 14, beyond which the legs extend upwardly and terminate in outwardly turned tabs 15.

In the operation of the device, as best shown in Figure 1, the tabs 15 are compressed to the position indicated in dotted lines, and the device is pushed downwardly into the drain outlet fitting 16 of a basin 17. When the tabs are substantially flush with the top 18 of the fitting 17, the portions 14 are adapted to engage in the side grooves 20 of said fitting 17, normally positioned in such a drain fixture for the accommodation of strainer cross-bars which may be readily removed if such are provided, and the portions 10 allowed to expand to the position shown in full lines. With the device in this position, it will be seen that the teeth 12 project inwardly into the drain pipe in such manner as to catch hair, lint, hair pins, and similar debris passing downwardly into the drain. In case of such hair as is missed by the teeth 12, it will be readily apparent that the teeth 13 will serve to catch the same.

Obviously, when a sufficient quantity of hair or other matter has been collected to render passage of waste water through the drain pipe difficult, causing partial stoppage, the article may be removed by compression of the tabs 15 and a simple withdrawal, of the device from its setting.

A modified form of construction is disclosed in Figure 4, wherein the device includes upright members 10' provided with teeth 12', and a U-shaped connecting portion 11', upon which the teeth 13 of the central portion are omitted. Indentations 14' are provided adjacent the upper extremities of upright portions 10', but the portions of the uprights extending therebeyond are insufficient to reach the level of the fixture 17. A centrally positioned upright bar 25 is adapted to be secured on the portion 11' in vertical relation centrally thereof in any desired manner. The upright bar 25 is provided with upwardly angularly disposed teeth 28, corresponding in angular inclination to the teeth 10', and at its upper extremity the member 25 is provided with a finger-engaging loop 30.

Obviously, in this modification, a rubber stopper 31 may be used at will. The loop 30 may be grasped by the index finger and thumb, or by a

hook for inserting or removing the device from the drain pipe 16, and the indentations 14' may be engaged in the recessed side grooves 20 in the same manner as that discussed with respect to the previous modification.

From the foregoing it will now be seen that there is herein provided an improved drain pipe stoppage preventer which accomplishes all the objects of this invention, and others, including many advantages of great practical utility and commercial importance.

As many embodiments may be made of this inventive concept, and as many modifications may be made in the embodiment hereinbefore shown and described, it is to be understood that all matter herein is to be interpreted merely as illustrative and not in a limiting sense.

I claim:

A trap device for drain pipes, consisting of an integral U-shaped resilient member for insertion into the drain pipe, the member having spaced

elongated sides bent at their free ends to form outwardly projecting lateral extensions to engage the open end of the drain pipe for supporting the trap device therein, and inwardly extending upwardly inclined pointed teeth formed upon the inner surfaces of the sides and spaced continuously along the sides from points near the longitudinal center of the U-shaped member to the bottom of such member.

FREDERICK W. HEUACKER.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
594,169	Catsiff	Nov. 23, 1897
1,087,043	Nathan	Feb. 10, 1914
1,950,817	Rossman	Mar. 13, 1934