

[54] **FLOATING SUCTION NOZZLE**
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3,521,864	7/1970	Welles, Jr.	210/242 X
407,250	7/1889	Roeske	210/242 X
3,616,923	11/1971	Haley	210/242
1,591,923	7/1926	Lebherz	210/242
3,109,812	11/1963	McAuley et al.	210/242
3,669,275	6/1972	Downs	210/242
1,605,207	11/1926	Bitte	210/242

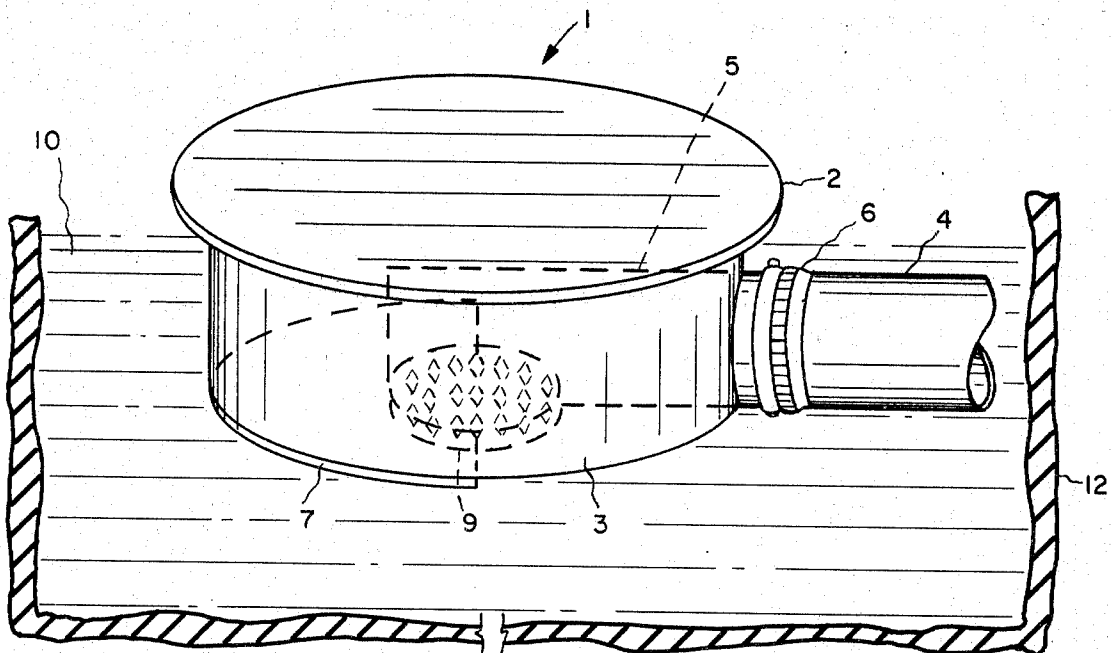
[52] U.S. Cl. **210/242, 210/460**
[51] Int. Cl. **E02b 15/04**
[58] Field of Search **210/242, 459, 460, 210/461, 462, 463**

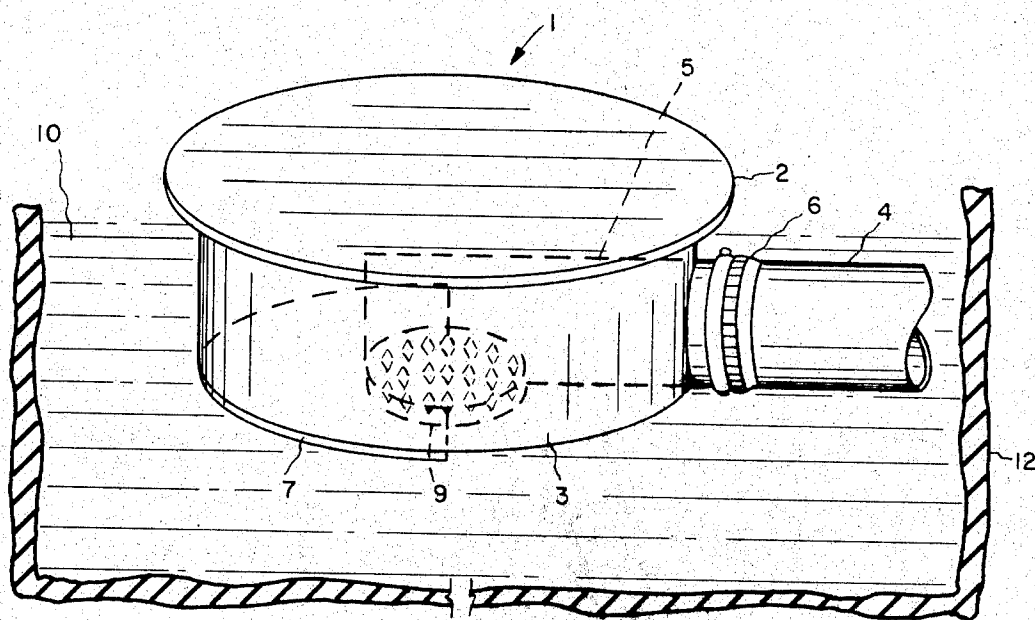
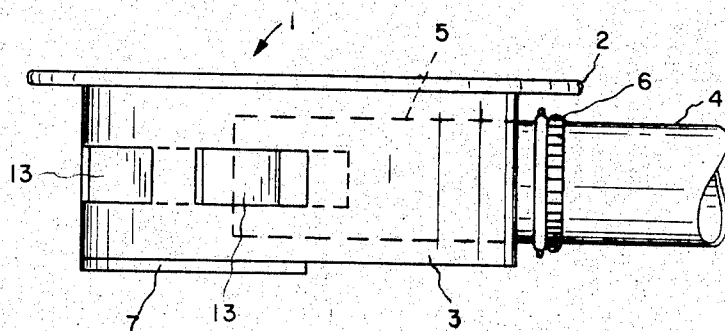
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[56] **References Cited**
UNITED STATES PATENTS
2,318,220 5/1943 Haselwood 210/242 X
1,644,248 10/1927 Goldman 210/242

[57] **ABSTRACT**
A floating suction head for preventing the intake of matter such as debris from a liquid is described.

1 Claim, 4 Drawing Figures





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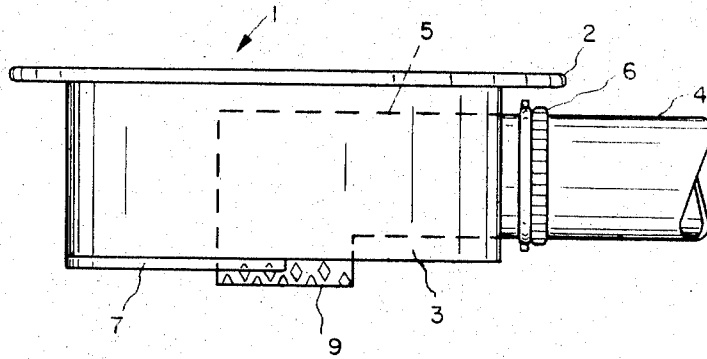


Fig. 2

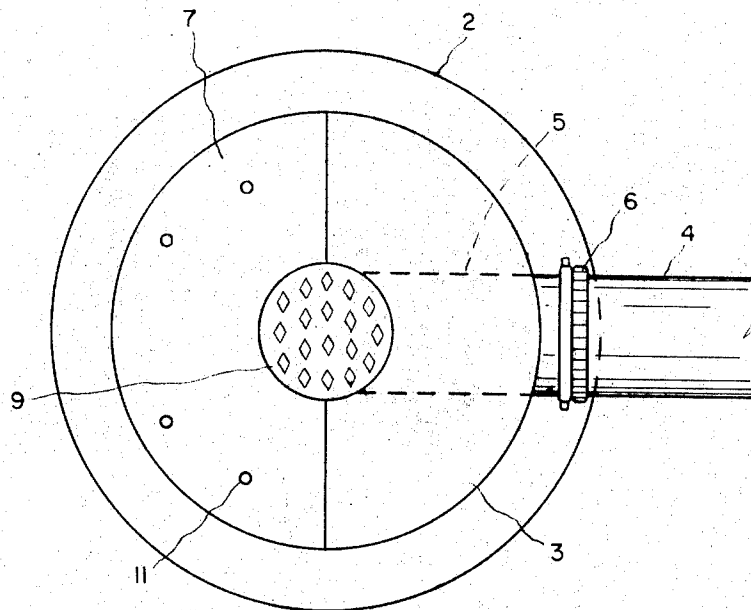


Fig. 3

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FLOATING SUCTION NOZZLE

My invention relates to a floating suction head and in particular to a head which is capable of preventing the intake of non-floating debris from a liquid.

A conventional suction head is usually a strainer type device made of metal and functions while resting on the bottom of a pool pond or area to be drained. These devices are vulnerable to partial or complete clogging by mud, leaves water logged paper and cloth or other types of non-floating debris.

My invention is a floating suction head that eliminates the clogging problem not only in the head itself but also in the pump or suction producing device. It can be attached to any type hose, used for drainage purposes, by means of a threaded coupling.

The invention will be described with reference to the accompanying drawings in which:

FIG. 1 is a perspective view of the nozzle according to the invention; and

FIGS. 2 and 3 are side elevational and bottom plan views respectively of the nozzle.

FIG. 4 shows another embodiment.

The nozzle 1 comprises a top plate 2 of polyurethane foam and a cylindrical housing 3.

Any standard suction hose 4 from a suction device is connected to a tube 5 in the nozzle through a threaded coupling 6 to a strainer 9 through which water is drawn. A counterweight 7 secured within the housing by bolts or rivets 11 counter-balances the hose connection and

2

causes the head to remain level with plate 2 on the surface of the water 10 to drain water into the intake system and assist in the stabilization of the head.

As shown in FIG. 4, intake ports 13 may be provided in the peripheral wall of the housing instead of, or in addition to the bottom strainer 9, and are likewise connected to the internal tube 5.

In operation, the nozzle may be used to empty a swimming pool 12, or similar body of water by placing the nozzle on the surface of the water drawing water into the nozzle through intake ports 9 and 13. Debris is excluded by strainers.

Obviously other modifications are also possible.

What is claimed is:

1. A floating suction head comprising a submersible housing with a cylindrical sidewall comprising a channel for the flow of liquid therein and having a single discharge outlet rigidly coupled to said cylindrical sidewall, said outlet further comprising a lateral flexible tube connected to a suction device, inlet means including filter means for drawing liquid into said housing, a counter-weight within said housing connected to said cylindrical sidewall at a location oppositely spaced from said single discharge outlet and a buoyant plate of polyurethane foam covering the upper end of said housing to floatingly support said housing and maintain its level in said liquid.

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