

I. N. TOUSLEY.
LIQUID STRAINER.
APPLICATION FILED MAY 10, 1911.

1,005,366.

Patented Oct. 10, 1911.

Fig. 1.

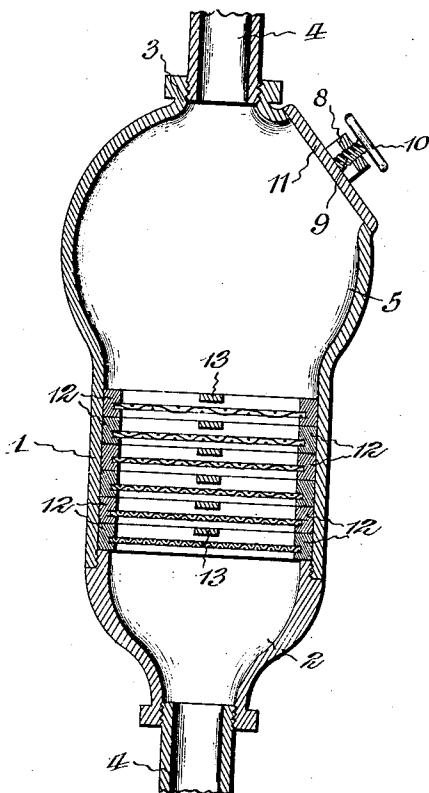


Fig. 2.

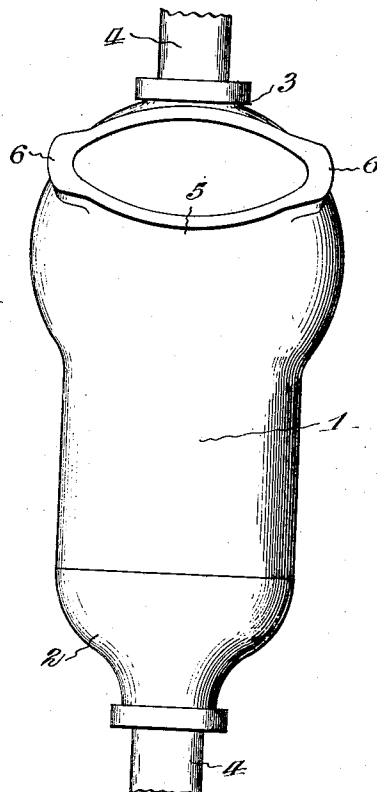
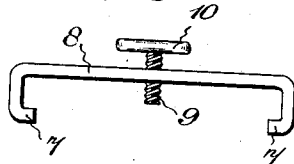


Fig. 3.



WITNESSES

M. P. Wilson.
A. R. Walton

INVENTOR

Isaac N. Tousley,
By Milo B. Thomas & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

ISAAC N. TOUSLEY, OF CHICAGO, ILLINOIS.

LIQUID-STRAINER.

1,005,366.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ISAAC N. TOUSLEY, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Liquid-Strainers, of which the following is a specification.

My present invention relates to means for straining liquids, and my object is to provide a strainer especially adapted for use in packing houses, factories and other places where lard, soap and the like are made.

Another object of my invention is to provide a strainer comprising a casing adapted to be coupled within a pipe through which the material, that is to be strained, is passed, so constructed, and in which the straining members are so arranged, that ready access may be had thereto for the purpose of cleaning or substitution.

A still further object of my invention is to provide a strainer which will be simple in construction, which will present a neat appearance, and which will effectively perform the functions assigned thereto.

With these and other objects in mind, my invention resides in the features of construction and arrangement to be hereinafter described with reference to the accompanying drawing, in which,

Figure 1 is a central vertical section through my improved strainer in operative position. Fig. 2 is a front elevation thereof with the cap or door removed, and Fig. 3 is an elevation of the door-locking clamp.

Referring now to these figures, my improved strainer comprises a casing 1, which is cylindrical in form, and which is provided at one end with a reducer coupling 2 and has a reduced internally threaded opposite end 3, by which it is adapted to be mounted within the pipe 4 through which the material that is to be strained is passed, to form a part thereof. Adjacent to its reduced end 3, the casing 1 is provided with an angular cylindrical branch 5, the circular edge of which is provided with side ribs 6, to form bearing points for the angular and inwardly

bent extremities 7 of a clamp 8. Centrally through this clamp 8 is threaded an adjusting screw 9 having a hand-wheel 10, this clamp being provided for the purpose of securely holding a door or cap 11 over the mouth of the branch 5 in such manner that it may be readily and quickly removed when desired.

The straining members are circular in form and are superposed in a vertical series within the casing 1, to rest upon the upper circular edge of the coupling member 2. These straining members comprise rings 12, which are inserted in, and removed from the casing through its branch 5. Each of the rings 12 has a disk of straining material secured there-across, and is also provided with a transverse strip 13 constituting a handle. The straining members are preferably provided with straining disks of different degrees, and are so arranged that they graduate as to their straining quality from a lower fine straining material to an upper coarse straining material. Thus with the strainer closed in the position shown in Fig. 1, it is simply necessary to release the hand-screw 9, remove the clamp 8, and after taking off the cap or door 11, each of the straining members may be removed in turn, for cleaning, repairing or substitution, by inserting the hand inwardly through the casing branch 5 and grasping the handles 13. In this manner the frequent removal of the straining members may be accomplished readily and quickly.

I claim:

1. The combination of a casing provided at one end with a coupling member to secure the same within a pipe transmitting liquids, a plurality of straining members arranged within said casing in superposed relation and resting upon the inner end of said coupling member, said casing having an angularly disposed branch provided with extending ribs at its edge, a door adapted to be secured over the mouth of said branch, a clamp having angular and in-turned extremities to engage said ribs, and a hand-

screw threaded through said clamp to engage and secure the door in position.

2. The combination of a casing provided at one end with a coupling member, a plurality of strainers arranged in said casing in superposed relation and resting on the inner end of the coupling member, said casing having a side opening to permit removal

of the screens therethrough, and a closure for said opening.

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

ISAAC N. TOUSLEY.

Witnesses:

ANNA M. MENGEL,

H. G. BATCHELOR.