

No. 709,670.

Patented Sept. 23, 1902.

M. R. FOSTER, JR.
HATTER'S HAIR STRAINER.

(Application filed Oct. 17, 1901.)

(No Model.)

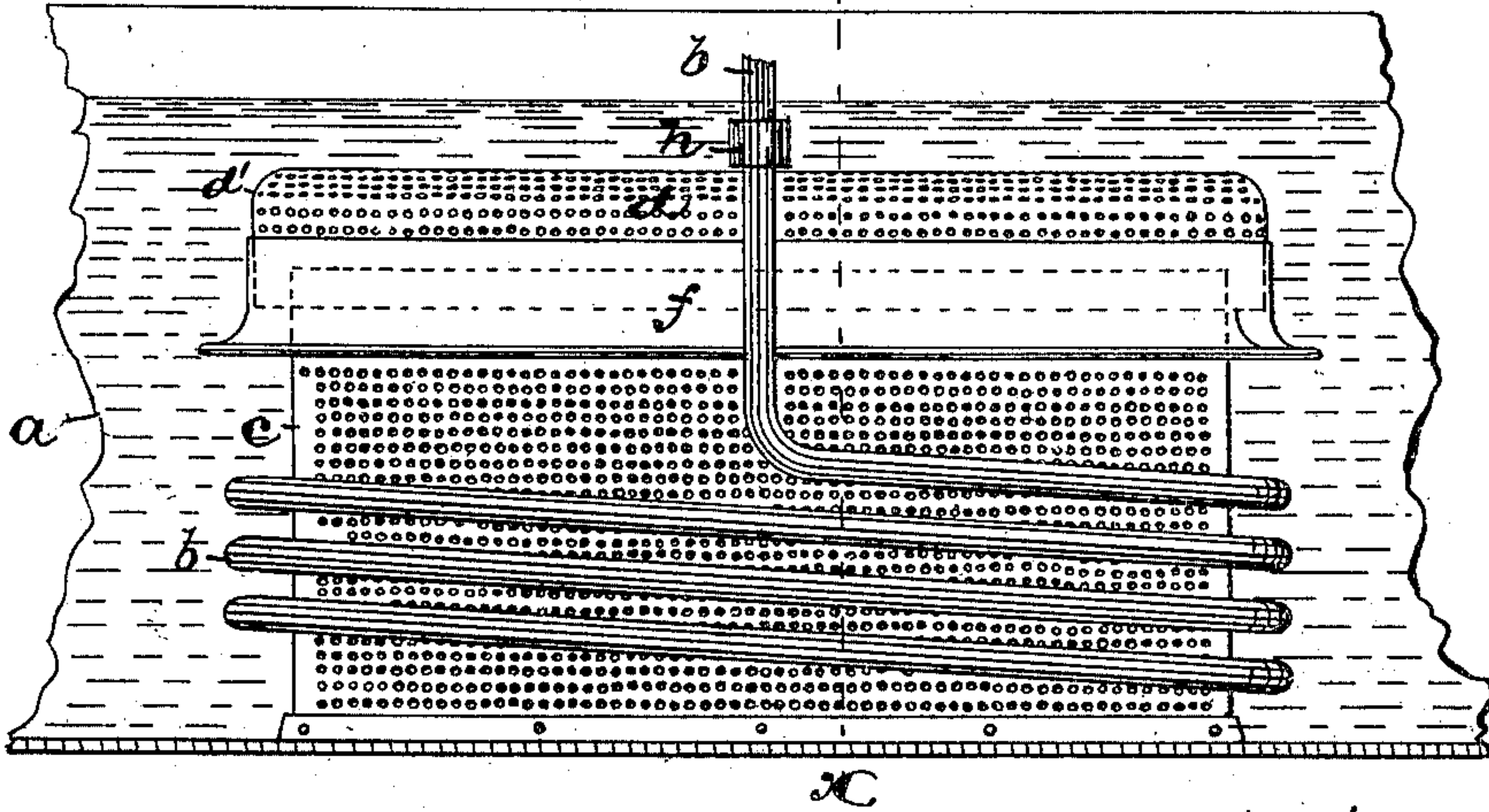


Fig. 1.

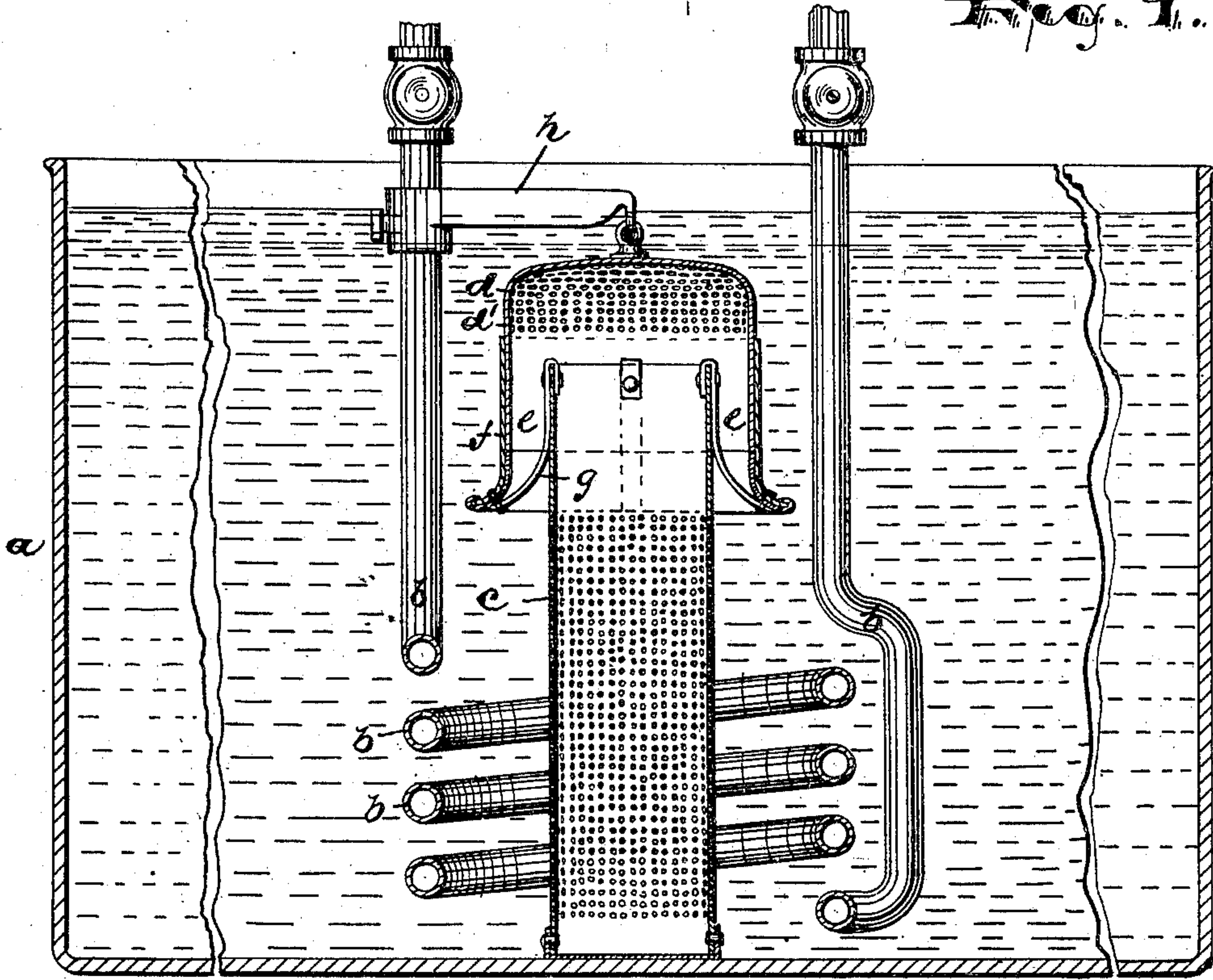


Fig. 2.

WITNESSES:

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MANNING R. FOSTER, JR., OF ORANGE, NEW JERSEY.

HATTER'S HAIR-STRAINER.

SPECIFICATION forming part of Letters Patent No. 709,670, dated September 23, 1902.

Application filed October 17, 1901. Serial No. 78,906. (No model.)

To all whom it may concern:

Be it known that I, MANNING R. FOSTER, Jr., a citizen of the United States, residing at Orange, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Hatters' Hair-Strainers; 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to certain improvements in that class of devices for removing from hatters' kettles the loose hair or fur floating therein represented by the one shown in my patent dated September 24, 1901, No. 683,265, the object of the present invention being to more effectively remove such hair or fur and to provide a straining device particularly adapted for use in connection with the tank of a hat-sizing machine and to secure other advantages and results, some of which may be referred to hereinafter in connection with the description of the working parts.

The invention consists in the improved hatter's hair-strainer or device for removing fur or hair from the fluid of a hatter's tank or kettle and in the arrangements and combinations of parts of the same, all substantially as will be hereinafter set forth and finally embraced in the clauses of the claim.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts in both views, Figure 1 is a side elevation of the improved device shown in connection with the tub, tank, or kettle; and Fig. 2 is a section of the same, taken at line *x*, Fig. 1, on an enlarged scale.

In said drawings, *a* indicates the kettle or tank, and *b* the coil of steam-pipes, by means of which the water or other fluid within said tank or kettle is heated to the boiling-point or thereabout.

c indicates an oblong receptacle open at the top and having perforated side walls adapted to permit an outflow of liquid therethrough. Above said receptacle *c* is arranged a perforated hood *d*, which is somewhat larger in

plan than the receptacle *c*, so that a passage *e* is formed between the hood and the receptacle *c*, through which an upflowing current of water may pass. The said hood *d* is preferably held in proper operative relation to the receptacle *c*, as shown in the drawings, by means of a flange *f*, which is flaring at its lower edge and is fixed to the receptacle *c* by a series of stays *g*, which are preferably riveted to the top of the receptacle *c* and to the bottom of the flange *f*. The body *d'* of the hood *d* fits upon or within the flange *f* and is held thereon or therein by friction or other suitable means. When held in place by friction, the said body of the hood may be removed from the flange by a simple withdrawal, and thus the fur or hair which has accumulated within the receptacle *c* can be removed. The coil of pipes *b* extends around or under the receptacle *c*, and the heat thereof produces an upcurrent of hot or boiling water, which is caught by the flaring flange *f* of the hood *e*, so that the current of water enters said hood, carrying with it the loose hair, which is entrapped in the hood and receptacle, thus removing the hair or fur from the body of liquid within the tank outside the receptacle *c*, rendering the water clear of such hair, so as to prevent interference with the hatsizing or felting operations. The said receptacle *c* may extend down to the bottom of the tank or kettle, or it may be supported upon legs or supports in any suitable manner, and the hood *d* may be supported upon a bracket *h*, and when so supported I may dispense with the stays *g*, and in that event the body of the hood and the flange *f* may then be formed of one integral piece of metal. The hood is preferably perforated at and near the top thereof only, the lower part at the passage *e* being preferably not perforated, and the receptacle *c* likewise is preferably not perforated at the passage *e*, so that the current of water is confined in the passage more perfectly and the up movement thereof is more positive.

Having thus described the invention, what I claim as new is—

1. The improved hair-strainer for hatters' kettles, &c., comprising the receptacle *c*, having perforated side walls and an open top, and a hood arranged over the said open top,

and forming with said receptacle a passage *a*, substantially as set forth.

2. The combination with the perforated receptacle *c*, having an open top, of a hood arranged over the open top, of said receptacle, and having the upper part thereof perforated, substantially as set forth.

3. The combination with the perforated receptacle *c*, of a flange *f*, secured thereto, and a perforated hood-body removable from said flange, substantially as set forth.

4. The combination with the tank and steam-pipes, of a receptacle open at the top and perforated below said open top and a hood larger in plan than said open top arranged above said steam-pipes and secured in said tank to form a passage *e*, around said open top substantially as set forth.

5. The combination with the tank and steam-pipes, of the receptacle *c*, having out-passages for the liquid of the tank and an

in-passage at the top thereof, and a hood secured over said open top and above said steam-pipes and having perforations above said open top, substantially as set forth.

6. The combination with the tank and steam-pipes, and the receptacle *c*, having an open top and perforated lower part and unperforated upper part, of a hood arranged above said steam-pipes and said receptacle and having a perforated upper part and unperforated lower part, a passage between being formed at said unperforated parts substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 10th day of October, 1901.

MANNING R. FOSTER, JR.

Witnesses:

CHARLES H. PELL,
C. B. PITNEY.