(No Model.)

T. BABIN.

COFFEE STRAINER OR FILTER.

No. 384,411. Patented June 12, 1888.

Fig. 1

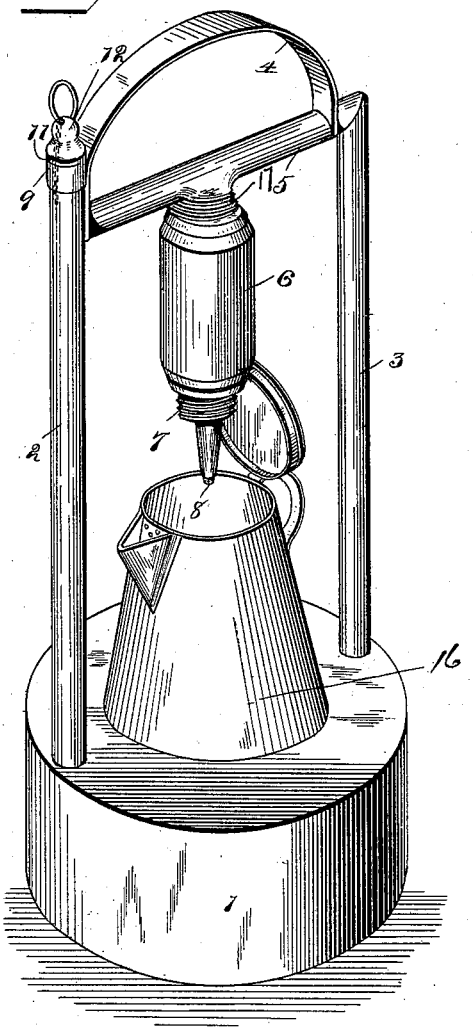


Fig. 2

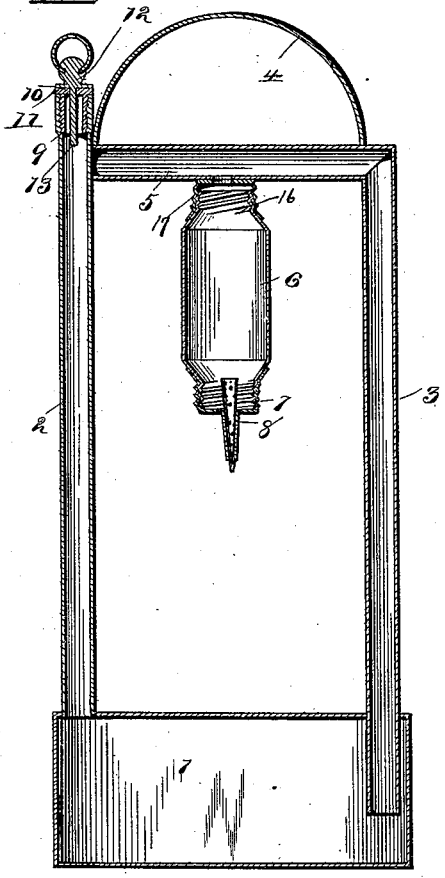


Fig. 3

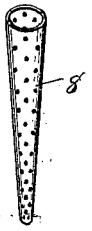
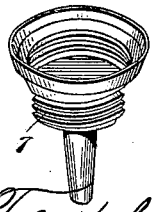


Fig. 4



WITNESSES.

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UNITED STATES PATENT OFFICE.

TELESPHORE BABIN, OF HOUMA, LOUISIANA, ASSIGNOR OF ONE-HALF TO ALEXIS PICOU, OF SAME PLACE.

COFFEE STRAINER OR FILTER.

SPECIFICATION forming part of Letters Patent No. 384,411, dated June 12, 1888.

Application filed November 4, 1887. Serial No. 254,294. (No model.)

To all whom it may concern:

Be it known that I, TELESPHORE BABIN, a citizen of the United States, and a resident of Houma, in the parish of Terre Bonne and State of Louisiana, have invented certain new and useful Improvements in Coffee Strainers or Filters; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved filter or strainer for coffee. Fig. 2 is a vertical sectional view and Figs. 3 and 4 are detail views of the dripper-chamber and dripper-tube, respectively.

Similar numerals of reference indicate corresponding parts throughout the several views.

My invention has relation to improvements in filters or strainers for coffee and other like substances; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and set forth.

Referring to the several parts by their designating-numerals, 1 indicates the water-reservoir or boiler, 2 the steam-escape pipe, 3 the water pipe or tube, and 4 the handle, of my device.

Communicating with the water pipe or tube 3 is a transverse connecting-pipe, 5, which in turn communicates with a downwardly-extending discharge chamber, 6, said chamber being provided with screw-threaded lower end adapted to receive the screw-threaded end of a funnel-shaped dripper-chamber, 7. The discharge-chamber 6 is screwed with its upper screw-thread extension or gudgeon, 16, into a screw-threaded socket, 17, secured in any suitable manner to the transverse connecting-pipe 5. A perforated cone-shaped dripper-tube, 8, passes through the dripper-chamber, the lower end or apex thereof extending below the lower end of said dripper-chamber, so as to leave the perforations at this point perfectly free and unobstructed.

Fitting in the interiorly-screw-threaded upper end of the steam-escape pipe 2 is a screw-threaded cap, 9, having central perforation, 10, and also provided with an annular flange or collar, 11, bearing against the upper end of said pipe or tube.

12 is a removable valve or plug having shank or stem 13 passing through the central perforation of the cap 9, said valve or plug being suitably secured to the steam-escape pipe by a light chain, cord, or other suitable means.

It will be seen that the steam-escape pipe or tube does not communicate at its upper end with the transverse connecting-pipe 5, nor does the lower end thereof extend down into the boiler or water-reservoir, simply terminating at the upper surface thereof, for the purpose of admitting steam from the boiler, and permitting the same to escape when desired. The water pipe or tube 3, however, as stated, communicates with the transverse connecting-pipe 5, which in turn communicates with the downwardly-extending chamber 6. The lower end of said water-pipe 3 preferably extends down into the water-reservoir within one-half an inch of the bottom thereof.

This being the construction of my improved filter or strainer for coffee and other substances, the operation is as follows: Water is first introduced into the reservoir or boiler by removing the safety valve or plug 12, and also the screw-threaded cap 9, and utilizing the dripper chamber 7 as a funnel, which may readily be done by simply unscrewing the same from the downwardly-extending chamber 6 and removing the dripper-tube therefrom. Care should be taken to introduce sufficient water to at least submerge the end of the water-pipe. The ground coffee or other substance to be defecated or filtered is now placed within the dripper-chamber, said dripper-chamber, with its dripper-tube inserted therein, being replaced in proper position upon the end of the downwardly-extending chamber 6. After properly adjusting the cap and the removable valve or plug in the end of the steam-escape pipe, the water contained in the reservoir is subjected to heat, and as the steam arises from the boiling water it will fill the space above the surface of the water, and also enter the steam-escape pipe. Inasmuch, however, as there is no outlet for the steam, the remov-

able valve being in proper position in the end of the steam-pipe, the expansive power of the steam will exert a pressure upon the water, forcing the same up through the water-pipe into the transverse connecting-pipe, where it will pass down to the dripper-chamber, and finally be discharged from the end of the dripper-tube. A coffee-pot or other like vessel may be placed upon the reservoir or boiler to receive the essence or decoction as it slowly passes through the dripper-tube.

In operation care should always be taken to keep at least half an inch of water in the boiler, so as to prevent any accident or wear which might otherwise arise should the water be allowed to fall below this mark.

It will be seen that when the water contained in the reservoir falls below the end of the water pipe or tube it will be prevented from entering or being forced into said pipe, and this will also be the case when the steam valve or plug is removed, which of course permits the steam to escape, thereby removing all pressure upon the surface of the water. The removable valve or plug is also intended to act automatically in case of an overcharge of steam, the pressure of the steam upon the valve in such case being sufficient to force the valve out of position within the perforation of the screw-threaded cap 9.

From the foregoing description, taken in connection with the accompanying drawings, the construction, operation, and advantages of my improved filter or strainer will be readily understood.

In practice I prefer to use my invention on oil-lamps; but it is obvious that it can be employed in connection with a stove or any other suitable heating apparatus.

The device is simple and exceedingly effective in its work, the arrangement of the dripper-tube within the dripper-chamber being such that the substance to be defecated will undergo a very thorough and effective filtration, the fine perforations in the dripper-tube rendering the process of filtering sufficiently slow to insure the extraction of the virtues of the berry.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. In a strainer or filter for coffee, the combination of the steam-escape pipe having an interiorly-threaded upper end, the removable screw-threaded cap having a central aperture and provided with an annular flange or collar, and the valve or plug suitably secured to the steam-escape pipe and adapted to be inserted in the central aperture of said removable cap.

2. The combination of the water-reservoir or boiler, the steam-escape pipe having interiorly-threaded upper end, the removable screw-threaded cap having central aperture and provided with an annular flange or collar, the valve or plug suitably secured to the steam-escape pipe and adapted to be inserted in the central aperture of said removable cap, the water-pipe, the transverse connecting-pipe, the downwardly-extending discharge-chamber having the lower screw-threaded end, the funnel-shaped interiorly-threaded dripper-chamber, and the cone-shaped perforated dripper-tube.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

TELESPHORE BABIN.

Witnesses:
D. A. CHAUDIN,
G. W. TRAHAN.