

Coffee Pot.

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Inventor:

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DIGESTER FOR COFFEE-POTS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, WASHINGTON L. GILROY, of the city of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in the Strainers of Digesters for Making Liquid Extracts; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view, and

Figure 2, a central vertical section of one of the said improved strainers.

Like letters of reference indicate the same parts when in both figures.

The object of my improvement is to render the space or chamber, for receiving the article from which the liquid extract is to be made, adjustable in its capacity, and to afford increased facility for introducing the said article into the said space or chamber.

My invention consists, substantially as hereinafter described, in so constructing and adjustably fitting concentrically together two hollow conical frusta, of perforated sheet-metal or wire gauze, that by longitudinally moving the inner one within the outer one the space between them will be increased or diminished, in accordance with the direction of the movement; and also in providing for the introduction into the strainer of the article from which the extract is to be made, by enlarging the opening in the upper end of the outer frustum, and diminishing the height of the inner one.

Referring to the drawings—

A B is the outer hollow conical frustum, C D the inner hollow conical frustum, and E the variable space or chamber between the said frusta.

This improved strainer is intended to be inserted in any suitable boiler having a loose cover or lid, and so that, when inserted, it will rest with its bottom edge upon a narrow flange or support, fixed to the inner side of the boiler, at a short distance above the bottom of the latter, as indicated by the faint lines V W, in fig. 2, for the purpose of making liquid extract of tea, coffee, or other article placed in the steamer.

The outer frustum A B has a broad cylindrical band, *b'*, fixed to its base, and the inner frustum C D has a much narrower band, *d'*, fixed to its base, and also a cross-bar, *d''*, which serves as a handle for the adjusting of C D in A B, and for the withdrawing of C D therefrom, as occasion may require, the said band *d'* fitting and sliding accurately within the said band *b'*. (See fig. 2.)

The upper end of the frustum A B has also an

enlarged mouth, for the introduction of the article to be digested, the said mouth being formed by a band, *a'*, which is fixed to the frustum, and fitted with a slip-cover, *a''*; and the upper end of frustum C D is also fitted with a small mouth, and a slip-cover, *c'*, in the same manner, but only for the purpose of facilitating in cleaning C D.

The upper end of frustum C D, when in place in frustum A B, is a short distance below the mouth of the latter, as shown in fig. 2.

Around the upper part of the outside of frustum A B, a ring of wire, *a'''*, is fixed concentrically to the sides by radial arms *a''*, for the purpose of keeping the upper part of the strainer concentric with its containing-boiler.

When the frustum C D is pushed into the frustum A B, as far as it will permit, a capacious annular chamber, E, is left between them, for the reception of the article which is to be digested, and when the said frustum C D is drawn outward, until the lower edge of its band *d'* is flush with the lower edge of the band *b'* of frustum A B, as indicated by the faint lines *x y*, the capacity of the said chamber E will be greatly increased.

In operation, the article to be digested having been introduced into chamber E, through the mouth formed by the band *a'* of A B, and its cover *a''* replaced, the strainer is then to be inserted into the boiler, where it will be supported in position, as indicated by the faint lines V W, in fig. 2.

The requisite quantity of water is now to be poured into the boiler, its cover replaced, and the vessel placed upon a suitable heater, and boiling produced.

It will be readily seen that the capacity of the receiving-chamber E of this strainer can be varied, as the quantities of the article to be digested may require, and that the mouth of the chamber E being capacious, and at the upper end of the strainer, gives greater facility for introducing, into the said chamber E, the article to be digested.

While boiling, the water will be continually passing from the bottom of the boiler upward, first through the sides of the frustum C D, then through the contents of the chamber E, and finally through the sides of the frustum A B, to the outside of the strainer, and from whence it will descend and pass between the lower edge of the band *b'* and its supporting-flange in the boiler, to the bottom again, as indicated by the arrows in fig. 2.

For making a clear liquid extract, of tea or coffee especially, this improvement, when applied to the strainer of the "digester," previously invented by me, will greatly increase the facilities and requirements of the latter.

Having thus fully described my improvement,

What I claim as new, and desire to secure by Letters Patent, is confined to the following, viz:

1. Making the capacity of the chamber E adjustable, substantially in the manner described, for the purpose specified.

2. In combination with the said receiving-chamber E, the enlarged mouth at the upper end of the frus-

tum A B, and the relatively shortened height of the frustum C D, the said parts being constructed to operate together, substantially as and for the purpose described.

W. L. GILROY.

Witnesses:

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W. W. DOUGHERTY.