

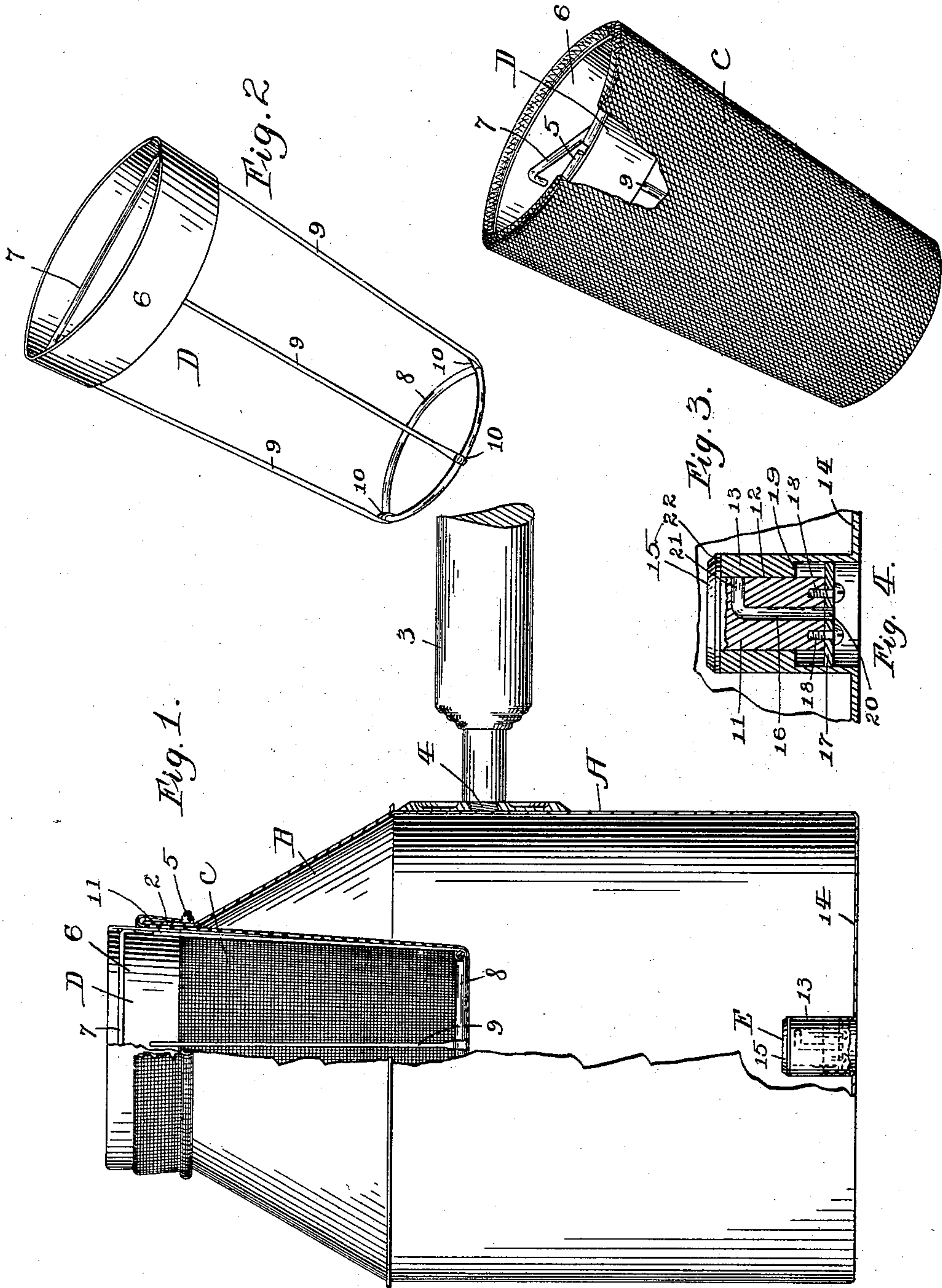
No. 710,133.

Patented Sept. 30, 1902.

T. K. BAKER.
COFFEE MAKER.

(Application filed Jan. 30, 1902.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

THOMAS K. BAKER, OF MINNEAPOLIS, MINNESOTA.

COFFEE-MAKER.

SPECIFICATION forming part of Letters Patent No. 710,133, dated September 30, 1902.

Application filed January 30, 1902, Serial No. 91,840. (No model.)

To all whom it may concern:

Be it known that I, THOMAS K. BAKER, a citizen of the United States of America, and a resident of Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Coffee-Makers, of which the following is a specification.

My invention relates to coffee-makers, and more particularly is an improvement upon the coffee-maker described in my application for Letters Patent, Serial No. 81,810, filed November 11, 1901.

The object of my invention is the production of a simple and efficient coffee-maker (adjustable to coffee-pots of varying styles) in which the strainer may be easily and quickly attached, so as to produce a tight joint between the wall of the open end of the vessel and the strainer.

In the accompanying drawings, forming part of this specification, Figure 1 is a side elevation of my improved coffee-maker, shown partly in section. Fig. 2 is a perspective view of the holder for the strainer. Fig. 3 is a perspective view of the holder with the strainer attached, part of said strainer being broken away to show the split ring by which it is adjusted to the holder. Fig. 4 is a sectional view of the valve in the bottom of the coffee-maker.

In the drawings, let A represent the coffee-maker, which is formed with the open tapering end B and provided with the circular flange 2, which surrounds the opening or mouth of the vessel. The handle 3, threaded at 4 in the side of the vessel, is shown partly broken away. This handle may be detached by unscrewing for convenience in shipment and use of the coffee-maker. The strainer C, made of cloth or other suitable material, as shown, is circular in horizontal cross-section and tapers slightly from its open to its closed ends. The open end of the strainer is adapted to fit inside the flange 2 in the open end of the vessel and is provided with the split spring ring or collar 5 for attaching the strainer to the holder D, as shown in Fig. 3. This holder is a skeleton frame of suitable shape to fit snugly inside and hold the strainer open. The holder is provided with the collar 6, to which the handle 7 is attached. The

wire loop 8 at the base of the holder is attached to the collar by the side arms 9, which are joined at 10 and 11, respectively, to the loop and collar.

The valve E (shown in the drawings) is automatic in action and consists of the stem 11^a, sliding through the opening 12 in the inner cylindrical projection 13 on the bottom 14 of the coffee-maker. The valve-head 15 is attached to the upper end of the stem 11 and is seated on the projection 13. The stem is provided with the passage-way 16, (see Fig. 3,) which is adapted to receive air into the vessel when inverted. The lower end of the stem is provided with the washer 17, which is attached by screws 18 and adapted to abut against the shoulder 19. The head and washer limit the movement of the stem. The washer is provided with the opening 20, which registers with the air passage-way 16. The stem slides when the vessel is tilted or inverted, so that the upper end 21 of the passage-way 16 projects beyond the shoulder 22 of the wall 13. The valve is adapted to reduce the danger of clogging by the coffee-grounds.

When the maker is in use, the holder is slipped into the strainer, as shown in Fig. 3, and its open end sprung over the mouth of the holder by the split ring 5. The strainer and holder are then attached to the mouth of the vessel by the handle 7 and the open end of the strainer pressed down over the outside of the flange 2, as shown in Fig. 1. It is obvious that when the coffee-maker is in use the coffee may be prepared by any of the usual methods—i. e., boiling water may be poured upon pulverized coffee or either pulverized or granulated coffee may be boiled in the vessel—and that the strainer may be adjusted to the maker after the coffee and water are in the vessel. After the coffee has been made and the strainer and holder closely fitted in the mouth of the vessel, as shown in Fig. 1, the vessel is tilted or inverted with the tapering end in the coffee-pot, and the coffee flows into such receptacle ready for use. When the coffee is emptying from the maker, the coffee-grounds gather on the strainer near the mouth of the vessel, leaving the inner end of the strainer practically free from grounds, and thus expediting the flow of the coffee.

By constructing the strainer and holder so that the larger end of the strainer enfolds the outer surface of the flange 2 and the collar 6 of the holder presses the strainer against the inside of said flange a tight joint is produced which prevents the coffee from leaking around the flange. To remove the strainer, its open end is sprung over the upper edge of the collar 6 to the position shown in Fig. 3. The holder and strainer are then lifted from the mouth of the receptacle by the handle 7.

Having described my invention, what I claim as new, and desire to protect by Letters Patent, is—

1. A device of the class described, consisting of a vessel having one end tapering to an opening for the purpose of fitting different-sized apertures in coffee-pots, a flange around said open end, a strainer, and a holder for said strainer, said strainer being provided with an elastic open end, whereby it is adapted to enfold the outer surface of the flange for the purposes specified.

2. A device of the class set forth, consisting in combination of a vessel having an open end terminating in a flange, a strainer also having an open end framed in an elastic ring,

adapted to enfold said flange, and means for holding said strainer in the mouth of the vessel.

3. A coffee-maker closed at one end and terminating in an opening at the other, a flange surrounding said opening, an automatic valve in said closed end, substantially as shown and described, a strainer surrounding a holder in said opening, an expansible ring at the open end of the strainer adapted to clasp the strainer and outer surface of said flange together.

4. A coffee-maker consisting of a vessel closed at one end and tapering at the other to an opening, a valve in the closed end of said vessel, a tapering strainer reversed in said opening, and means, for attaching said strainer in said vessel, consisting of a skeleton holder within the strainer and split ring around the open end thereof.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THOMAS K. BAKER.

Witnesses:

JOHN E. STRYKER,
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