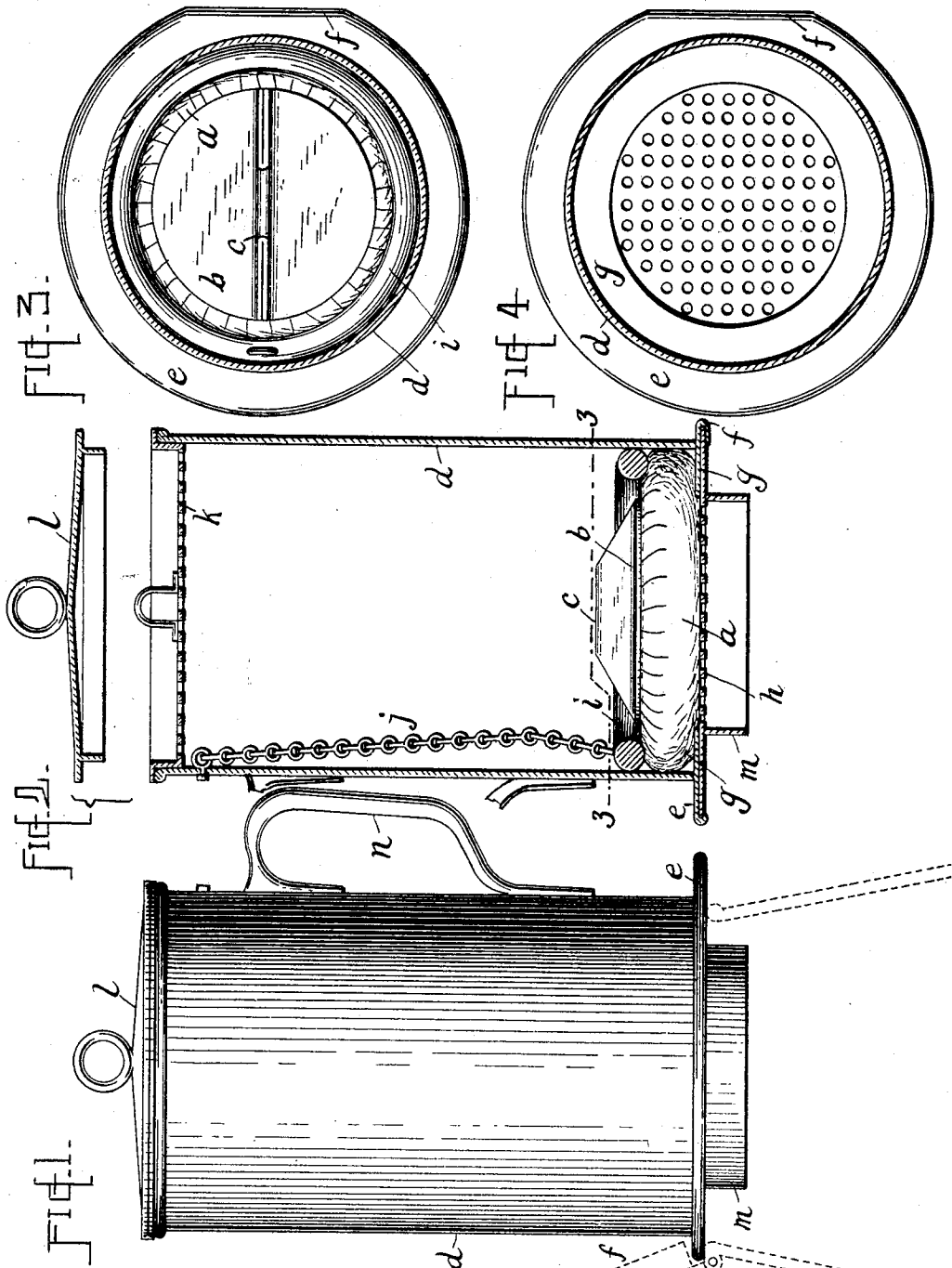


No. 785,693.

PATENTED MAR. 21, 1905.

G. BROWN.
COFFEE DRIPPER.

APPLICATION FILED JUNE 7, 1902. RENEWED SEPT. 17, 1904.



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UNITED STATES PATENT OFFICE.

GOODWIN BROWN, OF YONKERS, NEW YORK.

COFFEE-DRIPPER.

SPECIFICATION forming part of Letters Patent No. 785,693, dated March 21, 1905.

Original application filed January 17, 1902, Serial No. 90,170. Divided and this application filed June 7, 1902. Renewed September 17, 1904. Serial No. 224,857.

To all whom it may concern:

Be it known that I, GOODWIN BROWN, a citizen of the United States of America, and a resident of Yonkers, county of Westchester, and State of New York, have invented certain new and useful Improvements in Coffee-Drippers, of which the following is a specification.

This invention relates to drippers for use in connection with percolating-cartridges, and is especially adapted for use in connection with coffee-cartridges, described in my copending application, filed January 17, 1902, Serial No. 90,170, and of which this is a division.

The objects of my invention are to construct a dripper which is well adapted for use in connection with such coffee-cartridges by compelling the full quantity of water in the dripper to pass into the pot or cup through the cartridge, whereby a great economy of coffee is obtained, and also to permit the use of the dripper in connection with coffee-pots of shapes now commonly employed.

With these ends in view my invention consists in certain features of construction and combinations of parts to be hereinafter described and then claimed.

Referring to the accompanying drawings, Figure 1 is a side elevation of my improved coffee-dripper, the upper portion of a coffee-pot being indicated in dotted lines to show the position the dripper occupies when in use. Fig. 2 is a vertical central section of my improved dripper, showing how a coffee-cartridge is retained therein when the dripper is in use. Fig. 3 is a section on line 3-3 of Fig. 2; and Fig. 4 is a section similar to Fig. 3, but with the cartridge and weight-ring removed.

A brief description of the coffee-cartridge such as intended for use in my improved dripper will first be given. The cartridge is shown in Figs. 2 and 3 and consists of a shell *a*, formed of material defaced by the action of boiling water, such as "crêpe" paper and preferably provided with a strengthening-top *b*, having a handle *c*, such top being united to the inturned upper edges of the shell by a suitable soluble adhesive.

The dripper consists of a vessel *d*, having an annular flange *e* surrounding its base to form a seat whereby the dripper may be supported upon a coffee-pot, cup, &c., and whereby a considerable latitude in the size of such pot or cup is permitted, one side of the annular flange being cut away at *f* to permit the use of such a dripper with a coffee-pot having a hinged cover, as indicated in dotted lines in Fig. 1. The bottom of the vessel consists of an imperforate annulus *g* and a perforated central portion *h*, the perforated central portion being of less diameter than the diameter of the cartridge to be used in connection therewith, whereby the imperforate annulus affords the seat upon which the edge of the cartridge may rest. In order to hold the outer portion of the cartridge upon the imperforate annulus *g* and to prevent the passage of the boiling water around and beneath the cartridge instead of through the contents of the same, I employ a weight-ring *i*, which rests upon the upper surface of the cartridge, as shown in Figs. 2 and 3. The weight-ring is preferably anchored or secured to the vessel *d* by means of a chain or other suitable flexible connection *j*; the upper end of which is secured to the upper end of the vessel. A strainer *k* removably fits within the upper part of the vessel and a cover *l* is also provided. A downwardly-projecting flange *m* is located upon the bottom of the vessel around the perforated central portion *h*, and the dripper is completed by a suitable handle *n*.

In the use of a dripper such as herein described in connection with a cartridge such as shown the cartridge is placed within the dripper, resting on the imperforate annulus and the perforated central portion of the bottom thereof, the weight-ring *i* being then placed upon the cartridge, the diameter of the ring being such that it rests upon the inwardly-turned edges of the shell or body portion *a* and not upon the cover *l* thereon. Boiling water is then poured through the strainer *k*, and under the action of this water the adhesive material holding the cover upon the body portion *a* is loosened and the former

rises from the latter, which is held down by the weight-ring *z*, with the edge of the cartridge against the imperforate annulus. The water percolates through the coffee thus exposed and passes through the central portion of the body portion *a* and through the perforated portion *b* of the bottom of the vessel, the material of the body portion serving as a filter to retain the grounds, while the perforated bottom of the vessel serves to support the moist and easily-ruptured shell of the cartridge. Passing through the perforated bottom of the vessel the liquor drips into the pot or cup, being prevented from running along the under face of the annular flange *e* by the downwardly-extending flange *m* of the vessel.

Where the term "vessel" is used, it is to be understood that any casing having the features of the vessel as claimed and adapted to contain a percolating-cartridge the contents of which are to be extracted is contemplated.

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

25 1. In a dripper, the combination of a vessel having a centrally-perforated bottom surrounded by an imperforate portion, and means for pressing the outer portion of a percolating-cartridge firmly upon the imperforate portion, substantially as described.

30 2. In a dripper, the combination of a vessel having a bottom consisting of a perforated central portion and a surrounding imperforate portion, and a ring adapted to rest upon the said bottom over the imperforate portion, substantially as described.

35 3. In a dripper, the combination of a vessel having a centrally-perforated bottom surrounded by an imperforate portion, a ring adapted to rest within the vessel about the imperforate portion, and suitable means for se-

curing the ring to the vessel, substantially as described.

4. The combination, with a vessel having a centrally-perforated bottom surrounded by an imperforate portion, of a percolating-cartridge containing a substance to be extracted, and means for pressing the outer portion of the cartridge firmly upon the said imperforate portion, substantially as described.

5. The combination, with a vessel having a centrally-perforated bottom surrounded by an imperforate portion, of a percolating-cartridge containing a substance to be extracted, such cartridge fitting snugly against the inner wall of the vessel and resting on the perforate and imperforate portions, substantially as described.

6. The combination, with a vessel having a centrally-perforated bottom surrounded by an imperforate portion, of a percolating-cartridge containing a substance to be extracted, and means for forcing the outer portions of the cartridge against the inner wall of the vessel and upon the imperforate portion, substantially as described.

7. The combination, with a vessel having a centrally-perforated bottom surrounded by an imperforate portion, of a ring adapted to rest within the said vessel and above the imperforate portion, and a percolating-cartridge, the edges of the said cartridge being contained between the imperforate portion and the ring, substantially as described.

Signed by me at New York city, borough of Manhattan, New York, this 4th day of June, 1902.

GOODWIN BROWN.

Witnesses:

GEO. L. WHEELLOCK,
SAMUEL W. BALCH.