

(No Model.)

2 Sheets—Sheet 1.

J. A. RALEIGH.

COFFEE FILTER.

No. 288,491.

Patented Nov. 13, 1883.

Fig. 1.

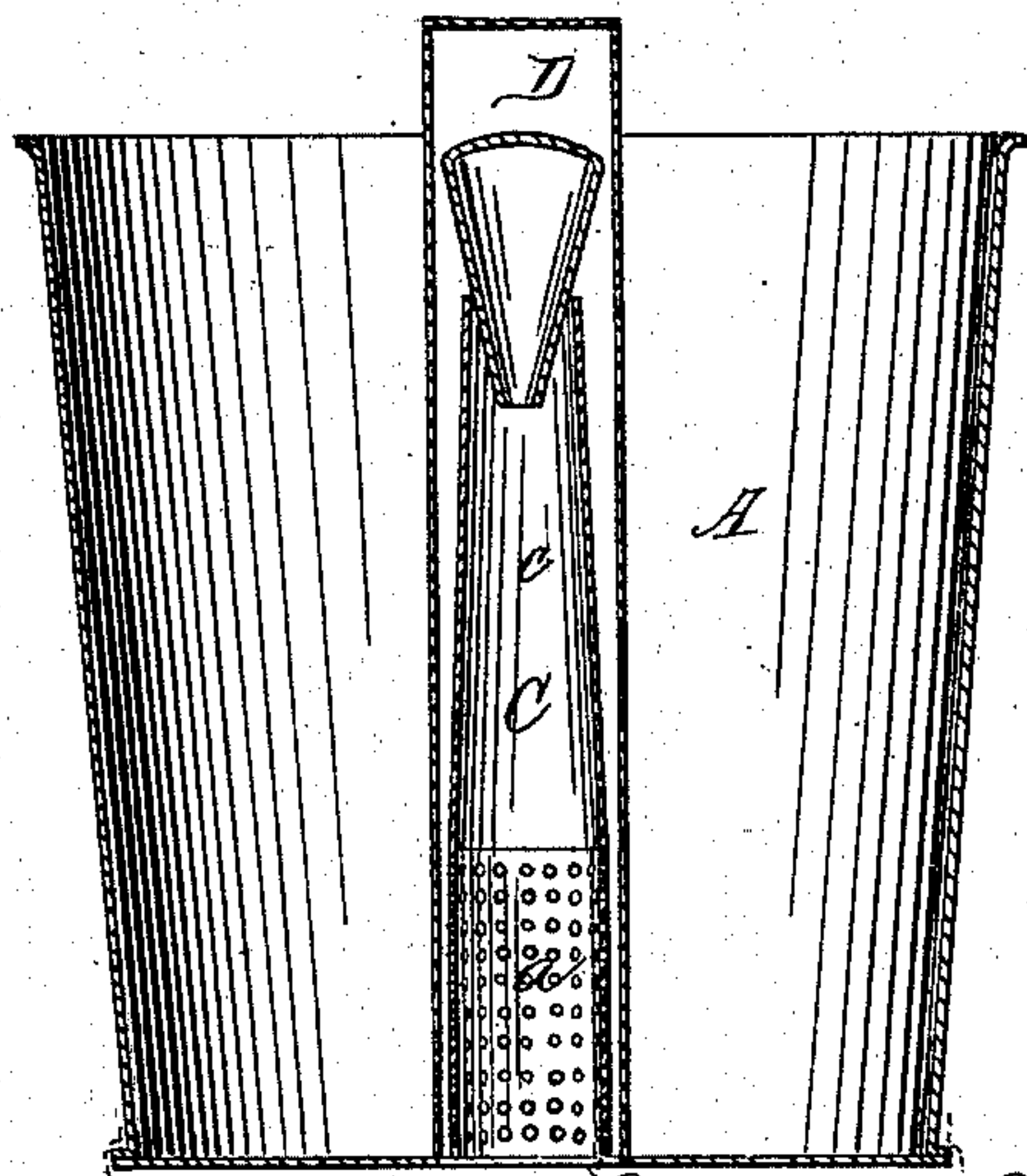
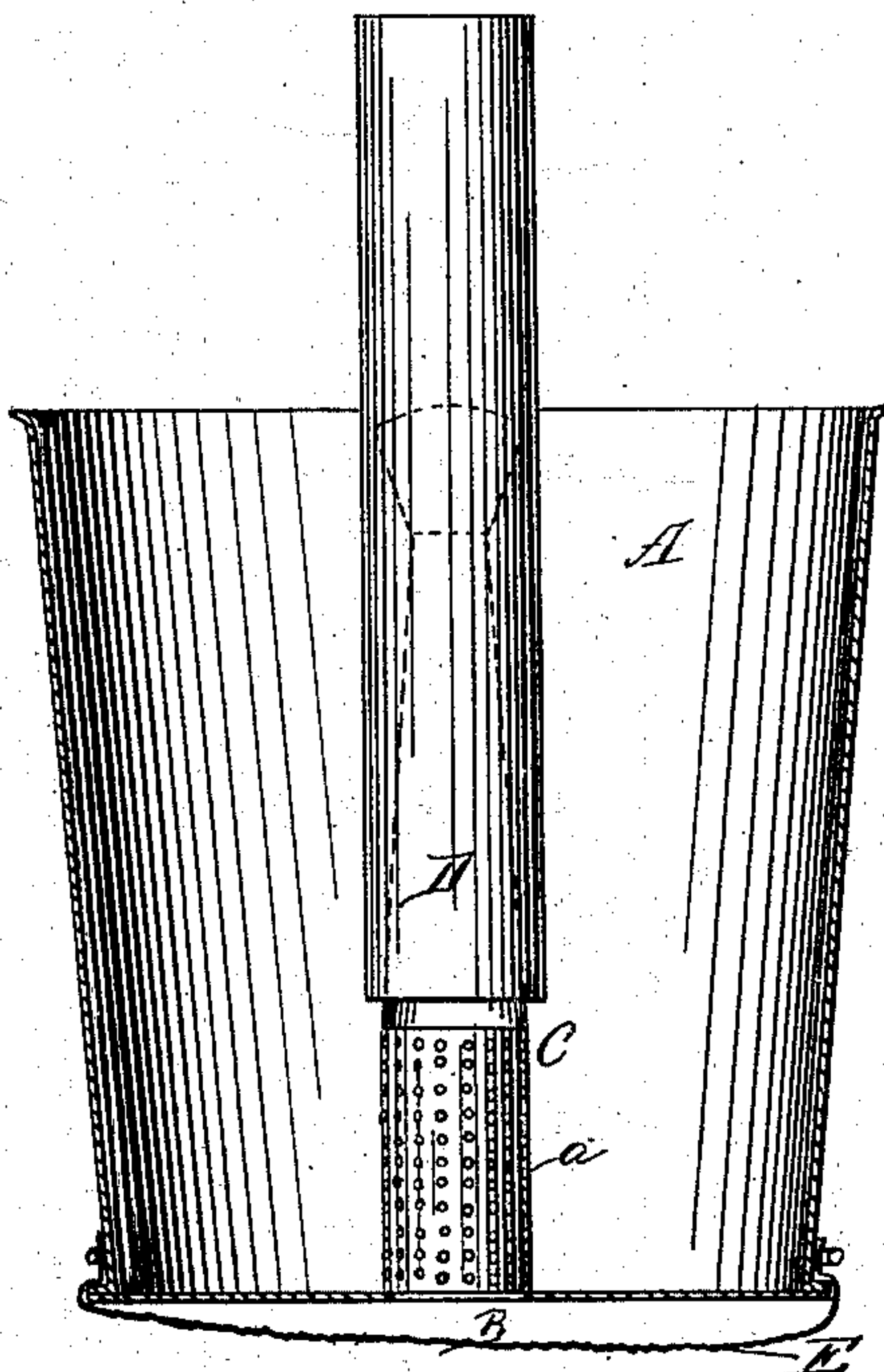


Fig. 2.



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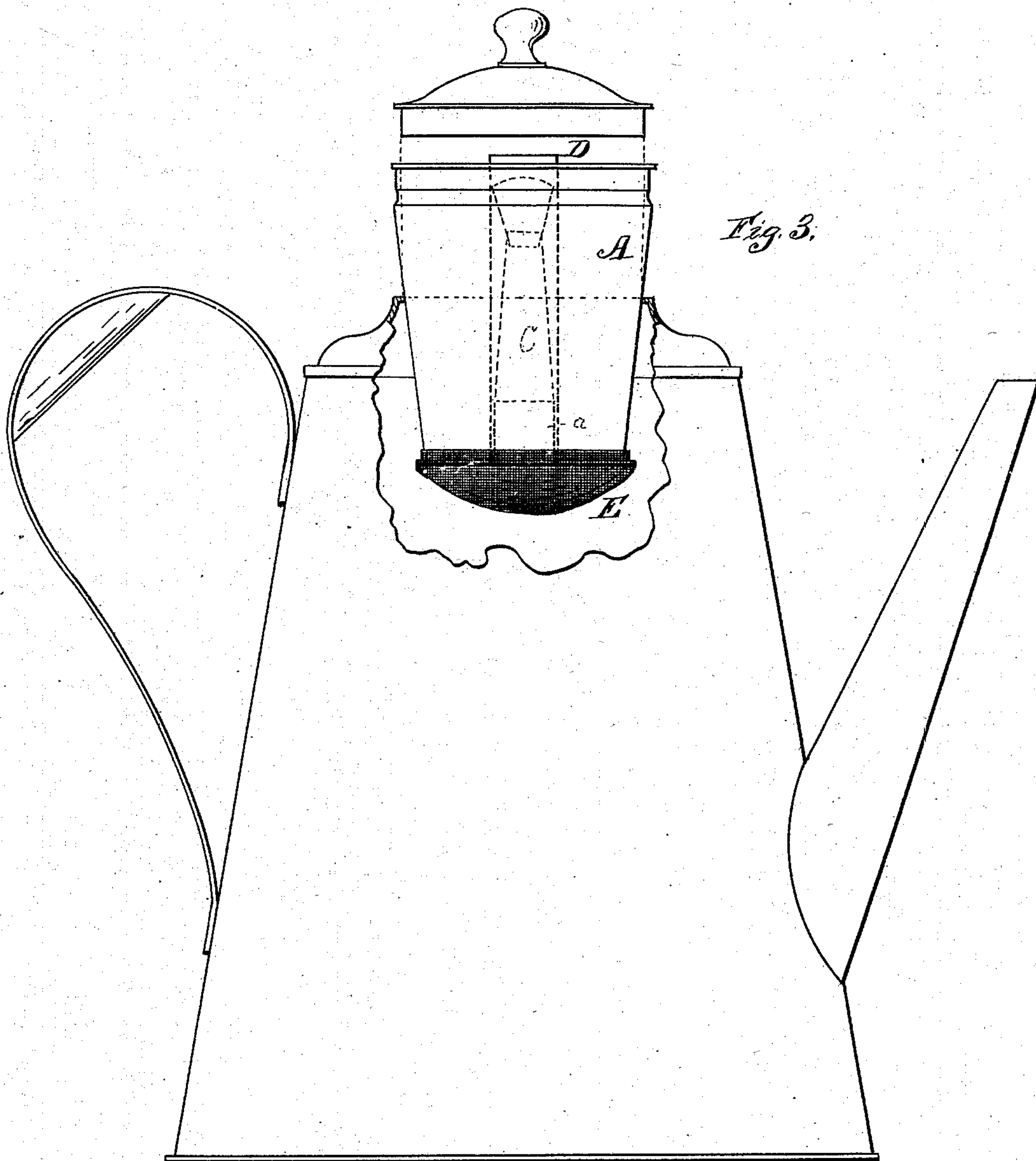
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WITNESSES

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UNITED STATES PATENT OFFICE.

JOHN A. RALEIGH, OF COLUMBIA, ALABAMA.

COFFEE-FILTER.

SPECIFICATION forming part of Letters Patent No. 288,491, dated November 13, 1883.

Application filed March 29, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. RALEIGH, a citizen of the United States of America, residing at Columbia, in the county of Henry and State of Alabama, have invented certain new and useful Improvements in Coffee-Filters; 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 or figures of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in attachment for coffee-pots, its object being to provide a means or filter by the use of which the greatest amount of aromatic substance and strength can be extracted from the coffee, which means will also prevent the grounds from passing into the body of the coffee-pot; and it consists in an attachment for coffee-pots, which attachment consists of a cup which tapers slightly from its base or bottom upwardly, and is provided near its top with a bead or flange, the same being also provided with a flange at its lower portion, the bottom of the cup being provided with an opening, which is surrounded by a vertical upwardly-projecting perforated tube, which tube has a solid portion attached thereon, which extends upwardly nearly to the top of the cup, and a flaring tube adapted to fit over the upright tube secured to the base of the cup, and a strainer secured to the lower portion of the cup, as will be hereinafter more fully set forth and illustrated.

In the accompanying drawings, which illustrate my invention, Figure 1 is a vertical section. Fig. 2 is a similar view, showing the covering-tube raised, so as to allow liquids to flow through the opening in the bottom of the cup. Fig. 3 is a view showing my improved attachment applied to a coffee-pot of ordinary construction.

In the accompanying drawings, which illustrate my invention, A represents the cup or vessel, which is cylindrical in cross-section, and tapers slightly from its base upwardly, as illustrated. This cup is provided near its upper and lower edges with projecting flanges,

and at its central portion with an opening, B, which opening is surrounded by the perforated portion of an upwardly-projecting tube. The lower edge of the perforated portion of this tube is attached to the base or bottom of the cup by means of solder, or by any other well-known method of attaching metals to each other. To the upper portion of this perforated tube is secured, also by solder, an upwardly-projecting tube of solid sheet metal. This tube, if desirable, may taper slightly upwardly, and is provided near the top with a cap with a downwardly-projecting conical portion, the upper part of which is of the same diameter as the perforated portion of the upwardly-extending tube. This cap, which is conical in shape and hollow, will hold the sliding tube in position, and will prevent the same from leaning and exposing any of the surface of the perforated portion of the tube C. This cap has also another function—to wit, when the steam from the coffee-pot rises in the tube and is condensed, the liquid thus formed will be guided so as to drop back into the pot through the central opening. This tube C is of such a length as to extend nearly to the upper rim of the cup A, and over the tube is placed a cylinder, D, the upper end of which is preferably closed. This cylinder is of such diameter that it will fit snugly over the perforated portion of the tube attached to the bottom of the cup.

Over the exterior portion of the bottom of the cup, and secured thereto, is a strainer, E, which consists of textile fabrics, and the same is secured to the bottom of the cup, so that it may be readily removed therefrom.

The object of providing the cup A with tapering sides is to render said cup capable of use in coffee-pots having openings at the top of different diameters, and the upper part of these cups is of such a diameter that the tops of the coffee-pots will usually fit upon the same, of course it being understood that different-sized cups will be furnished with different-sized coffee-pots.

When it is desired to make coffee with my improved attachment, the cup is placed within the opening in the upper part of the coffee-pot. The hollow tube B is then placed over the upright tube in the center of the cup.

Then as much coffee, ground moderately fine, as desired is placed within the cup. The cup is then filled about two-thirds full of boiling water, the top of the coffee-pot being placed
 5 over the cup. The coffee upon which the hot water has been poured is then left to draw for a suitable length of time, after which the top is removed. The tube D is then drawn or raised a slight distance upward. This will let
 10 the water flow from the cup into the strainer or sack E, secured to the under part of the cup, and from thence into the coffee-pot. Boiling water is then poured into the cup as fast as it passes through the filter into the coffee-pot.
 15 Of course, if desired, the coffee may be poured from the spout of the coffee-pot into another vessel, and from thence again through the filter as often as desired, so as to give the coffee the desired strength. By following these
 20 instructions the coffee may be given the greatest amount of strength, and the grounds will be prevented from passing into the body of the coffee-pot.

It will be seen that in making coffee with
 25 my improved attachment it is not necessary to remove said attachment from the top of the coffee-pot.

I am aware that prior to my invention filters for tea and coffee have been provided with
 30 a flexible bag; also, cups for insertion in coffee-pots, which are perforated at the base of cup, and provided with a band to cover said perforation, have also been provided; but to utilize these devices it is necessary to remove
 35 the filter from the coffee-pot; also, that coffee-pots have been provided with devices to hold the grounds, which devices are submerged in the liquid contained in the coffee-pot; also, that it is not broadly new to provide a coffee-
 40 pot with an opening in its bottom, which is surrounded by an upwardly-extending perforated screen, which is covered by a movable cup, as shown in Patent No. 91,333. The device shown in this patent is not deemed an at-

tachment for coffee-pots, but a portion of the
 45 coffee-pot itself, and is only for the purpose of preventing the grounds from having access to the exit-spout of the coffee-pot.

My invention as hereinbefore described has been found in practice to operate satisfactorily,
 50 and, owing to its cheapness and ready adaptability, the coffee-pots already manufactured have found an extensive sale.

Having thus described my invention and its method of operation, what I claim as new, and
 55 desire to secure by Letters Patent, is—

1. In combination with a coffee-pot, the filter herein described, consisting of a conical vessel adapted to rest within the opening in a
 60 coffee-pot, and provided with a tapering body and a closed bottom having a central opening surrounded by a perforated tube, to which is attached an upwardly-extending portion, C, and the tube D, of sheet metal, adapted to slide
 65 over the central perforated tube, substantially as shown, and for the purpose set forth.

2. In combination with the coffee-pot, a filter adapted to be supported within the top of the coffee-pot, consisting of a receptacle for
 70 the ground coffee, having a tapering body and a closed bottom, with a central perforation, which is surrounded by a perforated tube attached to the bottom, said perforated tube being provided with an upwardly-extending por-
 75 tion, and a cylindrical sliding tube adapted to fit snugly over the upwardly-projecting tube secured to the bottom of the vessel, and a flexible strainer, E, removably attached to the bot-
 80 tom of the cup, the parts being organized substantially as shown, whereby they are adapted to operate in the manner set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN A. RALEIGH.

Witnesses:

W. S. WOOD,
 J. F. ROPER.