May 13, 1924. 1,493,982

B. HIRSCHHORN

TEA CARTRIDGE

Filed Sept. 26, 1923

Fig. 1.

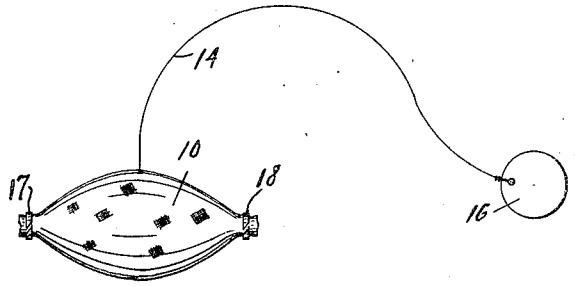


Fig. 2.

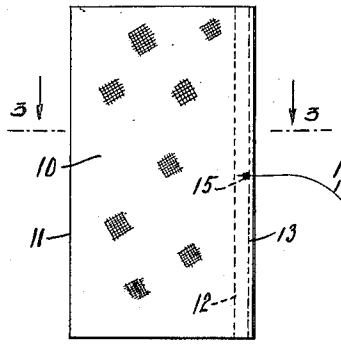


Fig. 4.

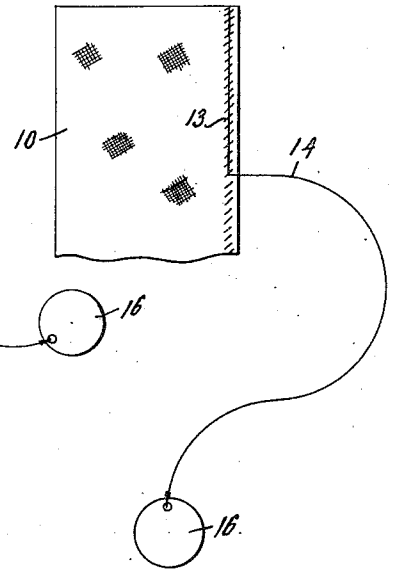
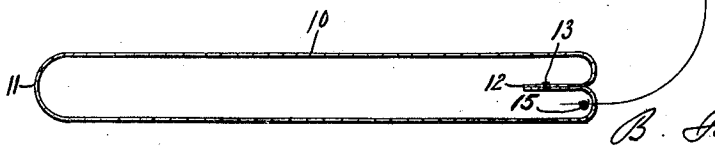


Fig. 3.



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UNITED STATES PATENT OFFICE.

BENJAMIN HIRSCHHORN, OF NEW YORK, N. Y., ASSIGNOR TO MILLIE PATENT HOLDING CO. INC., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

TEA CARTRIDGE.

Application filed September 26, 1923. Serial No. 664,881.

To all whom it may concern:

Be it known that I, BENJAMIN HIRSCHHORN, a citizen of the United States, and resident of the city of New York, in the county of Bronx and State of New York, have invented certain new and useful Improvements in Tea Cartridges, of which the following is a specification.

The present invention relates to cartridges for percolating or extracting the flavor from tea-leaves or coffee. The invention pertains more particularly to that type of tea-cartridges, which is described in U. S. Letters Patent No. 1,310,796, granted to me on July 22, 1919.

In the Letters Patent mentioned, a device for extracting essence from tea-leaves or coffee is described, comprising a bag of textile fabric which contains a quantity of tea-leaves or coffee just sufficient for a single brewing. The mouth of the bag is drawn into folds and closed by a metal strip, engaging and compressing said folds, thereby closing the mouth of said bag, said strip attaching at the same time a suspending string to said bag.

The main object of the present invention is to provide a cartridge the bag of which is in the form of a tube, both ends of the tube being closed by a metal strip of the type above referred to.

With these and other objects in view, which will more fully appear as the nature of the invention is better understood, the same consists in the combination, arrangement and construction of parts hereinafter described, pointed out in the appended claims and illustrated in the accompanying drawings, it being understood that many changes may be made in the size and proportion of the several parts and details of construction within the scope of the appended claims, without departing from the spirit or sacrificing any of the advantages of the invention.

Two of the many possible embodiments of the invention are illustrated in the accompanying drawings, in which:—

Figure 1 is an elevation of a tea cartridge constructed in accordance with the present invention; Fig. 2 is an elevation of the tube of which the bag is formed, having already attached to it a suspending string; Fig. 3 is a section taken on line 3—3 of Fig. 2 on a larger scale; and Fig. 4 is an elevation similar to the one shown in Fig. 2 of the drawings of a modification of the device, the bag being turned inside out in order to more clearly show the elements.

Referring now first to Figs. 1 to 3, inclusive, of the drawings, the numeral 10 indicates a tube of open mesh textile fabric, such as for instance cotton, it being made of a single piece of fabric that is folded along one of its longitudinal edges, denoted by the numeral 11, the meeting longitudinal edges 12 of the two plies being joined by a row of stitches 13, which run parallel to the said meeting edges. A suspending string 14 is passed through one of the plies of the tube substantially at the transverse center line of the latter, its inner end being knotted as shown at 15, to prevent a disengagement of the said string from the tube. To the outer, that is to say the free end of the string is attached a handle 16 of pasteboard or like material, for a purpose hereinafter to be described. In preparing the cartridge, one of the ends of the tube is gathered into folds and a metal strip 17 applied thereto. This metal strip is shaped to assume the form of a ring, embracing the folded portion of the tube so as to hold the folds under compression. In this manner a bag is formed, tea-leaves or coffee for a single brewing being then placed into the same. The mouth of the bag is then closed by puckering the same and applying thereto a metal strip 18, also shaped to assume the form of a ring, so as to prevent escaping of the contents.

In brewing tea or coffee with the improved device, the cartridge is taken hold of by its handle 16 and lowered into the brewing receptacle, the free end of the string and handle being permitted to hang over the mouth of the receptacle, after which its cover is put in place. The cover thus holds the free end of the string and handle ready for further operation. Into the receptacle is poured, either before or after the insertion of the cartridge, a suitable quantity of boiling water. When sufficient essence has been extracted from the tea-leaves or coffee within the cartridge, the cover of the brewing receptacle is removed and the bag withdrawn by grasping its handle.

The modification of the cartridge illus-

trated in Fig. 4 of the drawings differs from the one above described in that the suspending string 14 is initially attached to the tube by the row of stitches 13. The string extends in this case from one of the transverse edges of the tube to its transverse center line and is then passed through the tube. In this instance, obviously, one of the metal strips serves also to securely hold the suspending string in place upon the cartridge. Otherwise the construction and operation of the elements are the same as of those described in connection with Figs. 1 to 3, inclusive, of the drawings.

What I claim is:—

A device for extracting essence from tea-leaves or coffee, comprising a tube of textile fabric having both ends drawn into folds, a metal strip encircling and compressing the folds on each end of said tube for closing said ends, and a suspending string attached to said tube passing through the same at a point intermediate its closed ends.

Signed at New York, in the county of New York and State of New York this 25th day of September, A. D. 1923.

BENJAMIN HIRSCHHORN.