No. 782,219. PATENTED FEB. 14, 1905.

W. E. COLEMAN.

TOBACCO CARTRIDGE.

APPLICATION FILED FEB. 5, 1904.

Fig. 1.

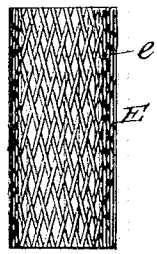


Fig. 4.

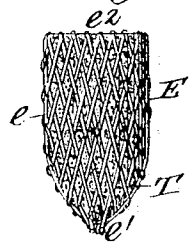


Fig. 2.

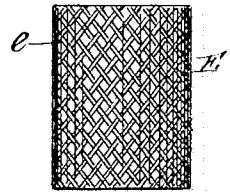


Fig. 3.

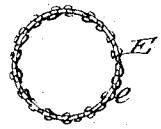


Fig. 5.

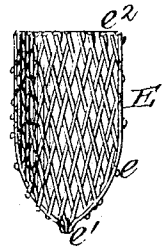
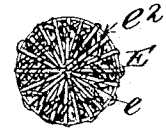


Fig. 6.



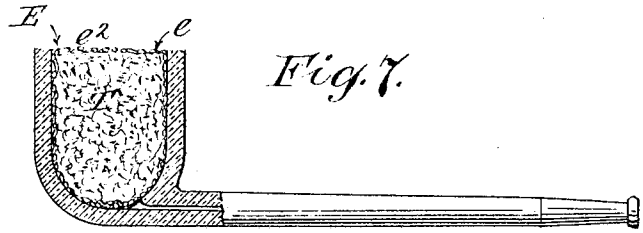


Fig. 7.

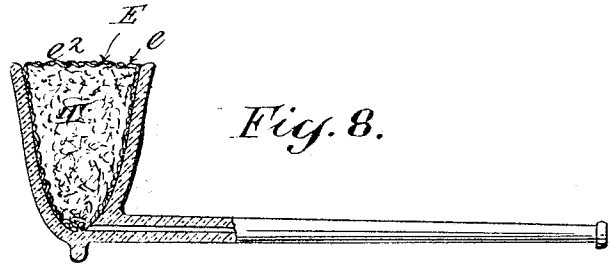


Fig. 8.

Witnesses:
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S. Troll

Inventor:
Walter E. Coleman
By his Attorney
Leo. W. Mall

No. 782,219. Patented February 14, 1905.

UNITED STATES PATENT OFFICE.

WALTER E. COLEMAN, OF NEWDORP, NEW YORK.

TOBACCO-CARTRIDGE.

SPECIFICATION forming part of Letters Patent No. 782,219, dated February 14, 1905.

Application filed February 5, 1904. Serial No. 192,142.

To all whom it may concern:

Be it known that I, WALTER E. COLEMAN, a citizen of the United States, residing at Newdorp, Richmond county, State of New York, have invented certain new and useful Improvements in Tobacco-Cartridges, of which the following is a specification sufficient to enable others skilled in the art to which the invention appertains to make and use the same.

My invention is designed to afford a cartridge or charge of tobacco which may be contracted and expanded within certain prescribed limits to facilitate its introduction into the bowl of a pipe and its compression therein to fit and fill the same transversely.

The invention consists, essentially, in inclosing the charge of tobacco in an envelop of loosely-woven flexible material, as hereinafter described and claimed specifically.

In the accompanying drawings, Figures 1 and 2 represent in a general way elevations of a cylindrical section of woven wire, illustrating its expansibility and contractibility. Fig. 3 is an end view of the envelop as shown in Fig. 1. Fig. 4 is an elevation of a tobacco-cartridge made from a section of the woven material; Fig. 5, a longitudinal section of the same. Fig. 6 is a top view of the cartridge; Fig. 7, a sectional view of a pipe-bowl, showing a cartridge forced into place therein; Fig. 8, a similar view in which the pipe-bowl is of a different shape from that shown in Fig. 7.

The envelop E may be formed of any suitable or desired material, preferably non-combustible, and I do not limit myself in this respect, although metallic wire of fine gage may be advantageously used, and I shall hereinafter designate such material simply as "wire" *e*. The wire *e* is loosely woven with a coarse open mesh into tubular form, preferably circular in cross-section and of any length desired. A section of this tubular woven material sufficient to form a cartridge is cut off and one extremity bent or pinched up to close that end of the envelop E and form the bottom *e'* of the cartridge. The tobacco T is then inserted into the envelop E, and the wires at the mouth e^2 of the envelop E are then bent over and inward to secure and confine the tobacco.

A coarse mesh is desirable in the woven-wire envelop in order to give ample scope for the expansion or contraction of the envelop laterally. Thus preparatory to its insertion into a pipe-bowl the cartridge may be elongated to facilitate the operation and then expanded by pressure applied to the top of the envelop, so as to cause the sides thereof to fit snugly the inner surface of the bowl of the pipe irrespective of any slight variations in the shape of the latter, as illustrated in Figs. 7 and 8. The contractibility of the envelop is also an advantage in withdrawing it from the pipe-bowl, since any pull or strain exerted outwardly upon the upper end of the envelop will tend to reduce the diameter of the envelop and detach it from the inner surface of the bowl.

It will be seen that by making an average size of cartridge it will be readily adapted to pipe-bowls of various shapes and ordinary capacity. Special sizes of cartridges may be made for pipes above or below the normal size, and thus, say, three sizes of cartridges can be made to practically cover all the requirements of trade. Tobacco thus inclosed in my elastic open-mesh envelop cannot be blown out of the bowl in which it has been placed, the bending over of the wires at the top rendering a perforated cover unnecessary under all conditions of use.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A tobacco-cartridge for pipe-bowls consisting of an envelop of wire woven together with an open mesh, said envelop being charged with tobacco and having its ends bent inward to retain the tobacco.

2. An expansible and contractible tobacco-cartridge for pipe-bowls consisting of an envelop of metallic wire of fine gage loosely woven together with open mesh, charged with tobacco, and having its ends bent inward to secure the tobacco.

WALTER E. COLEMAN.

Witnesses:
GEO. WM. MIATT,
D. W. GARDNER.