July 24, 1934. L. H. COLPE 1,967,289

CIGARETTE MOUTHPIECE

Filed March 29, 1933

Fig. 1.

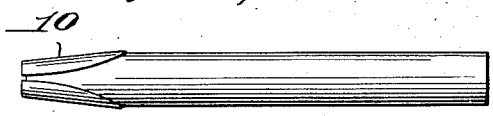


Fig. 2.

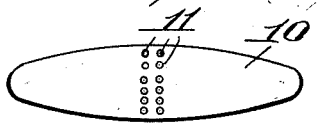


Fig. 3.

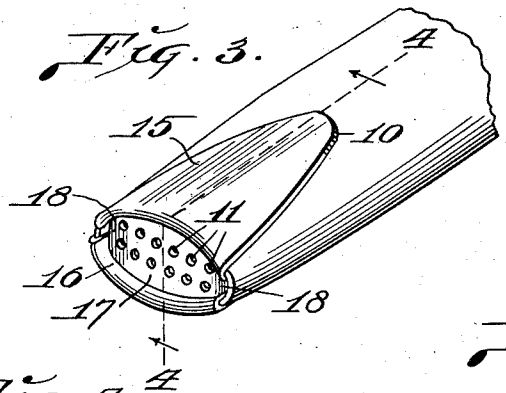


Fig. 4.

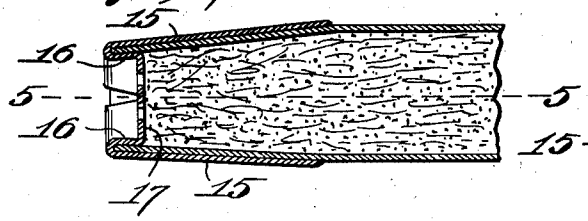


Fig. 6.

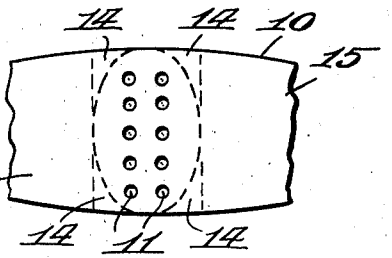
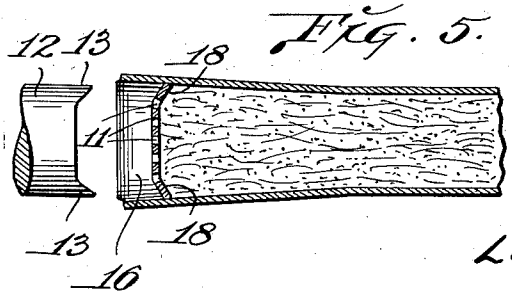


Fig. 5.



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Patented July 24, 1934 1,967,289

UNITED STATES PATENT OFFICE

1,967,289

CIGARETTE MOUTHPIECE

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Application March 29, 1933, Serial No. 663,315

4 Claims. (Cl. 131—52)

My invention relates to a mouth piece or tip for cigarettes of the particular type set forth in U. S. Letters Patent No. 1,865,679, issued July 5th, 1932 to me, and the principal objects of my present invention are, to generally improve upon and simplify the construction of the cigarette mouth piece disclosed in my aforesaid patent and to provide an improved tip that is highly effective in reenforcing the end portion of the cigarette wrapper to which the tip is applied so as to counteract tendency of the tip to collapse when held between the lips and subjected to the action of saliva.

A further object of my invention is, to provide a reenforcing tip or mouth piece for cigarettes that is formed of material that will counteract tendency of the cigarette wrapper to stick to the lips of the smoker and a portion of which tip provides a perforated closure for the end of the cigarette and thereby prevents the passage of particles or fibers from the filling of the cigarette into the smoker's mouth.

With the foregoing and other objects in view my invention consists in certain novel features of construction and arrangements of parts that will be hereinafter more fully described and claimed and illustrated in the accompanying drawing in which:

Fig. 1 is a side elevational view of a cigarette provided with a tip or mouth piece as contemplated by my invention.

Fig. 2 is a plan view of the tip and showing the shape and construction therefor before the same is applied to the end of a cigarette.

Fig. 3 is a perspective view of the end of a cigarette to which the improved tip or mouth piece is applied.

Fig. 4 is a vertical longitudinal section taken on the line 4—4 of Fig. 3.

Fig. 5 is a horizontal section taken on the line 5—5 of Fig. 4.

Fig. 6 is an enlarged plan view of the central portion of the tip.

Referring by numerals to the accompanying drawing which illustrates a preferred embodiment of my invention, 10 designates the tip or mouth piece which consists of a short strip of thin flexible material such as paper or thin sheet cork or any other material that may be adapted for the purpose.

Where the tip is formed of paper I prefer to treat the same so as to render the same practically moistureproof and to counteract any tendency of the tip to adhere to the lips of the smoker.

This strip of thin flexible material is substantially elliptical in shape and extending transversely across the central portion or area of the strip is a row or rows of small apertures 11, which permits the ready passage of smoke through the tip and at the same time prevents the passage of tobacco fibers.

One surface of the strip is coated with a suitable adhesive, whereby the strip will readily adhere to the wrapper of the cigarette and which wrapper is usually formed of thin paper.

The section of thin flexible material forming the tip or mouth piece is applied to one end of the cigarette with the end portions of the tip extending longitudinally of the cigarette on diametrically opposite sides thereof and the intermediate perforated portion of the strip is pressed into the end of the cigarette wrapper so that it occupies a slightly inset position relative to the end edge of the cigarette wrapper.

The greatest width of the central portion of the strip 10 is slightly greater than the internal diameter of the cigarette wrapper and as a result of these relative dimensions, the end portion of the cigarette will be given an oval shape when the intermediate portion of the strip is inserted in the end of the wrapper.

A suitable tool such as 12 (Fig. 5) is utilized for forcing the intermediate portion of the strip into the end portion of the cigarette wrapper, said tool being substantially elliptical in cross section and projecting from the working face of said tool at the opposite ends thereof, are substantially triangular lugs 13 that engage the corresponding edges of the intermediate portion of the strip and pressing the engaged portions of said strips inwardly beyond the intermediate perforated portion of said strip, as particularly illustrated in Fig. 5.

This disposition of the intermediate edges of the strip at the ends of the perforated portion thereof, takes up those substantially triangular areas of the strip to the sides of the end portions of the substantially elliptical shape imparted to the end of the cigarette wrapper, thereby preventing the "bunching" of material in the tip that lies immediately against the inner surface of the wrapper between the inset perforated central portion of the tip and the end of the cigarette wrapper and consequently providing a smooth finished inner surface.

The substantially triangular areas that are taken up by pressing the ends of the perforated intermediate portion of the tip into the wrapper as just described, are designated by the numeral 14 in Fig. 6.

When the tip is properly applied to the end of the cigarette wrapper, the end portions 15 of said tip overlie and are secured to the outer face of the cigarette wrapper on diametrically opposite sides thereof and portions 16 of the tip immediately adjacent to the perforated central portion thereof, lie immediately against and are secured to the inner face of the end portion of the cigarette wrapper and the perforated intermediate portion 17 of the tip forms an inset wall within the end portion of the wrapper, with the opposite end portions of said inset end wall extending slightly inward from the end of the wrapper, as designated by 18 in Fig. 5.

When the adhesive utilized for securing the tip to the wrapper becomes dry, the tip provides a substantial reenforcing mouth piece for the end of the cigarette and the inset perforated wall 17 prevents collapse of the end portion of the cigarette and at the same time said perforated wall effectually prevents particles and fibers of the tobacco filler from passing into the smoker's mouth.

Any number of perforations may be used in the intermediate or central portion of the tip, but it is of course important that said openings be of such small size as to permit the ready passage of smoke therethrough and at the same time to prevent the passage of tobacco fibers.

Thus it will be seen that I have provided a cigarette tip or mouth piece that is relatively simple in construction, inexpensive of manufacture and very effective in performing the functions for which it is intended and the tucking of the perforated central portion of the strip 10 into the end of the cigarette wrapper materially reenforces the end of the cigarette that is engaged by the smoker's lips and thereby affords added comfort to the smoker.

It will be understood that minor changes in the size, form and construction of the various parts of my improved mouth piece may be made and substituted for those herein shown and described without departing from the spirit of the invention, the scope of which is set forth in the appended claims.

I claim as my invention:

1. The combination with a cigarette, of a tip or mouth piece applied to one end of said cigarette, said tip or mouth piece comprising a single strip of thin flexible material having its end portions secured to the wrapper of the cigarette on opposite sides thereof, the intermediate portion of said strip being perforated, said perforated intermediate portion occupying a position within the cigarette wrapper, inset from the end thereof and portions at opposite ends of said perforated inset wall being extended inwardly within the cigarette wrapper beyond the plane occupied by said perforated wall to reenforce the tipped end of the cigarette and prevent collapse thereof.

2. The combination with a cigarette, of a tip or mouth piece applied to one end of said cigarette, said tip or mouth piece comprising a single strip of thin flexible material having its end portions secured to the wrapper of the cigarette on opposite sides thereof, the intermediate portion of said strip being perforated, said perforated intermediate portion occupying a position within the cigarette wrapper, inset from the end thereof portions of the strip of material at the ends of the inset perforated central portion being tucked inwardly within the cigarette wrapper beyond the plane occupied by the inset perforated portion so as to reenforce the tipped end of the cigarette against collapse by external pressure and those portions of the strip between the inset perforated wall and the end of the cigarette wrapper being secured to the latter by a suitable adhesive.

3. The combination with a cigarette, of a tip or mouth piece applied to one end of said cigarette and having its end portions secured to the external face of the cigarette wrapper, the intermediate portion of said tip or mouth piece being perforated and arranged within the wrapper at a point inset from the end thereof and the end portions of said inset perforated portion extending inwardly so as to occupy inclined positions within said wrapper beyond the plane occupied by the main body of said perforated inset portion and thereby reinforce the tipped end of the cigarette against collapse from external pressure.

4. The combination with a cigarette, of a tip or mouth piece applied to one end of said cigarette and having its end portions secured to the external face of the cigarette wrapper, the intermediate portion of said tip or mouth piece being perforated and arranged within the wrapper at a point inset from the end thereof, the end portions of said inset perforated portion extending inwardly so as to occupy inclined positions within said wrapper beyond the place occupied by the main body of said perforated inset portion to reenforce the tipped end of the cigarette against collapse from external pressure and portions of said tip or mouth piece adjacent to the inset perforated portion being secured to the inner face of the cigarette wrapper.

LORNE H. COLPE.