

# PATENT SPECIFICATION

DRAWINGS ATTACHED

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## COMPLETE SPECIFICATION

### Cigarette

We, OLIN MATHIESON CHEMICAL CORPORATION, a Corporation organised and existing under the laws of the State of Virginia, United States of America, of 460, Park Avenue, New York 22, New York, United States of America, do hereby declare the invention for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

The present invention relates to cigarettes and in particular to a tipped cigarette.

The term "tipped" cigarette is utilised to denote that class of cigarettes, conventional or filter type, wherein a band of paper or other tipping material is disposed about the end of the cigarette which is introduced into the mouth of the smoker.

For example, tipping may take the form of a paper band simulating a band of cork or the like.

An aim of the invention is the provision of a tipped cigarette where the tipping material is formed with a plurality of openings of such small size that they are not obvious and are scarcely perceptible to normal vision.

According to the invention there is provided a cigarette comprising a column of tobacco, a wrapper encircling the column of tobacco, and a band of tipping material encircling the wrapper at one end of the cigarette, wherein said wrapper is formed with at least one macroscopic opening, said tipping material being formed with a plurality of microscopic openings, the tipping material being so disposed with respect to the wrapper opening that at least some of the microscopic openings fall in register with the wrapper opening to provide communication from the atmosphere to the interior of the cigarette through the tipping material and the wrapper.

Preferred embodiments of the invention will now be described by way of example with reference to the accompanying drawings, in which:—

[Price 4s. 6d.]

Figure 1 shows a cigarette in which the principles of the present invention are utilized;

Figure 2 is a showing of a portion of the cigarette of Figure 1 somewhat enlarged and with portions broken away for clarity;

Figure 3 shows an alternative embodiment of the invention wherein the wrapper extends the full length of the cigarette;

Figure 4 illustrates an example of tipping paper, and;

Figure 5 shows obvious openings in the wrapper band.

Referring now to the drawings, specifically Figures 1 and 2, there is shown a cigarette indicated generally by the reference numeral 10 comprising a column of tobacco 11 enclosed by a wrapper 12 and including an abutting filter plug 13.

The filter plug and the wrapper column of tobacco are joined in abutting relationship by a band of 14 of tipping paper in well known fashion.

The wrapper 12 is formed with a plurality of openings 16 while the tipping paper includes an area or ribbon of obscure openings (shown somewhat enlarged for clarity) indicated by the reference numeral 17.

As is apparent in Figure 2, the tipping paper is so disposed with respect to the wrapper 12, that some of the openings in the tipping paper fall into register with the wrapper opening. In this fashion, there is provided a conduit from the atmosphere to the interior of the cigarette so that the smoker upon taking a "drag" induces air to enter the conduits.

A convenient way of characterizing the openings in the tipping and in the wrapper and a convenient aid in defining the relative size of the tipping openings as against the wrapper openings is to refer to the former as being microscopic in size while the latter openings are macroscopic.

Furthermore, it is intended that the tip-

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ping band be securely fixed to the cigarette body such as by bluing.

Figure 3 shows an alternative embodiment of the invention wherein a wrapper 120 having macroscopic openings 160 is shown enclosing a column of tobacco 110 and a filter plug 130 so that the wrapper extends the full length of the body of the cigarette.

The tipping paper 140 shown jacketing the wrapper is formed with a band of microscopic openings 170 which fall in register with the openings 160.

Obviously the plug 130 may be replaced with tobacco so that a still further embodiment of the invention may be constructed so as the embrace nothing but tobacco within the wrapper portion thereof.

Figures 4 and 5 show typical tipping material in the form of paper band 18 having a ribbon of microscopic openings 19 and a typical wrapper paper 21 having macroscopic openings 22 respectively.

Obviously the width and finish of the tipping paper, indeed, the material from which the tipping is fabricated, is not critical.

Correspondingly, the size, number and conformation of the holes 22 is not critical so long as the cigarette embracing these elements is constructed in accordance with the invention.

It is intended that a cigarette constructed in accordance with this invention will be effective when smoked to bring about the introduction of air into the body of the cigarette through the lateral or side openings formed in the tipping and in the wrapper in addition to the normal draught of air that is drawn longitudinally through the burning cone and the column of tobacco of the cigarette.

Obviously a wide variety of opening structures can be devised, i.e., the area of the

openings in the wrapper may be increased or decreased to increase or decrease the volume of air drawn thereto, without departing from the invention. 45

WHAT WE CLAIM IS:—

1. A cigarette comprising a column of tobacco, a wrapper encircling the column of tobacco, and a band of tipping material encircling the wrapper at one end of the cigarette, wherein said wrapper is formed with at least one macroscopic opening, said tipping material being formed with a plurality of microscopic openings, the tipping material being so disposed with respect to the wrapper opening that at least some of the microscopic openings fall in register with the wrapper opening to provide communication from the atmosphere to the interior of the cigarette through the tipping material and the wrapper. 50

2. A cigarette according to claim 1, wherein the wrapper is formed with a plurality of macroscopic openings, the tipping material being so disposed with respect to the wrapper openings that at least some of the microscopic openings fall in register with the wrapper openings. 55

3. A cigarette according to claim 1 or 2, which includes a filter plug abutting the column of tobacco, the tipping material encircling the plug and part of the wrapper. 60

4. A cigarette according to claim 1 or 2, wherein the column of tobacco is abutted by a filter plug and the wrapper encloses both the tobacco and the plug. 65

5. A cigarette, substantially as hereinbefore described with reference to the accompanying drawings. 70

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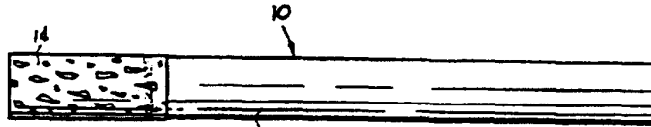


FIG-1

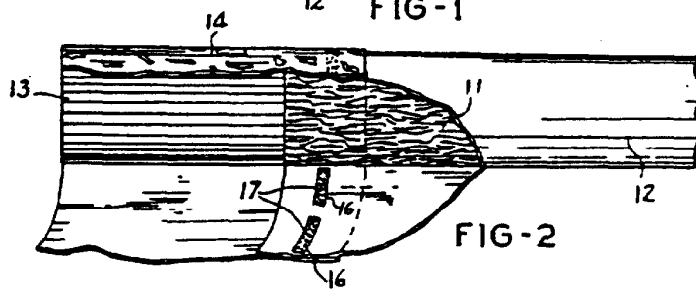


FIG-2

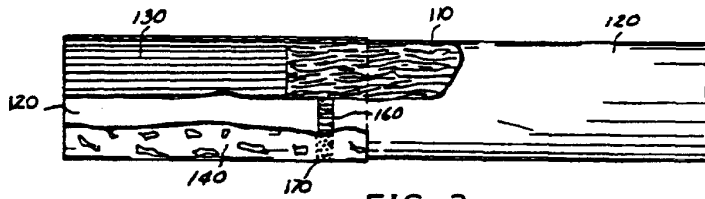


FIG-3

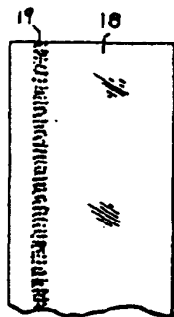


FIG-4

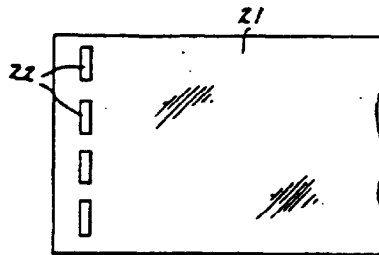


FIG-5

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