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2,819,720

CIGARETTE OR CIGAR WITH FILTER

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FIG. 1

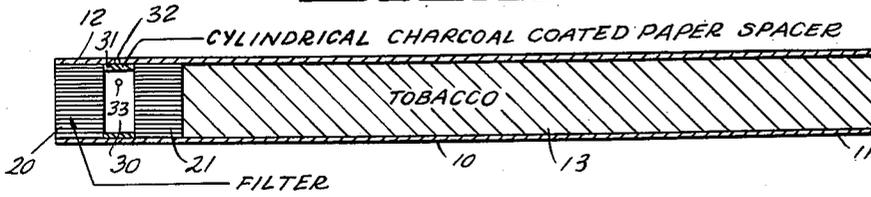


FIG. 2

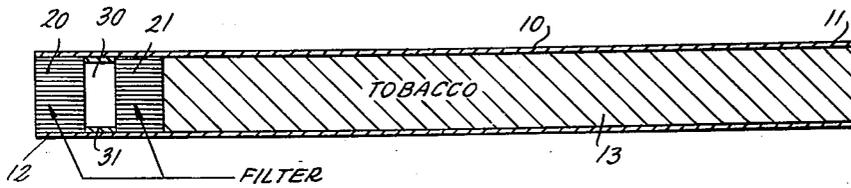
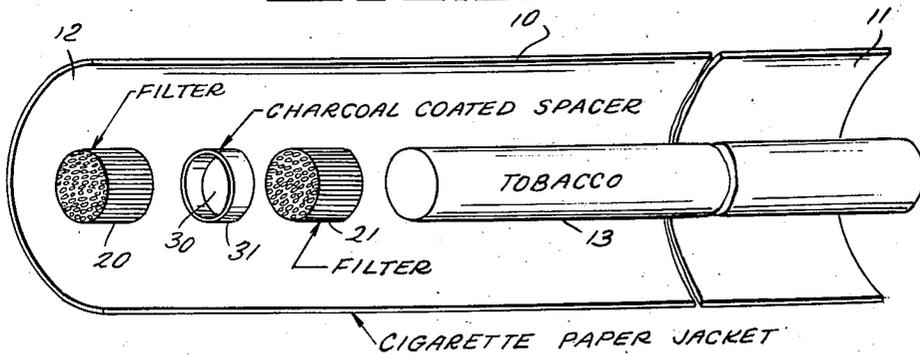


FIG. 3



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CIGARETTE OR CIGAR WITH FILTER

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3 Claims. (Cl. 131-10)

This invention relates to a novel form of filter contain-
ing cigar or cigarette.

Among the objects of the invention is to provide a
cigarette or cigar equipped with a filter which is more
effective.

Among other objects of the invention is to provide a
cigar or cigarette with a filter tip which also cools the
smoke.

These objects and others ancillary thereto are obtained
by providing a filter portion for a cigar or cigarette which
is made up of two distinct filters separated by an air space.
The two filters are separated by a ring device which may
comprise an additional absorptive region.

In the specification and claims it will be understood that
the term cigarette includes similar smoking articles such
as cigars.

The invention both as to its organization and its method
of operation together with additional objects and advan-
tages thereof will best be understood from the following
description of specific embodiments thereof when read in
connection with the accompanying drawing in which

Fig. 1 is a longitudinal cross-sectional view of one form
of the invention.

Fig. 2 is a longitudinal cross sectional view of a modi-
fied form of the invention.

Fig. 3 is an exploded view of the modification shown in
Fig. 2.

Although the drawing shows a cigarette it will be
readily understood that substantially the same filter con-
struction applies also to cigar and similar preformed
tobacco products. The cigarette shown has the wrapper
10 and the tobacco filler or pack 13 made up of a suitable
smoking mixture which comprises the greater part of the
cigar or cigarette.

The wrapper 10 has an end 11 which is to be lighted and
end 12 which forms the mouthpiece. On the inside of
the mouthpiece end is the first filter 20, an air space 30
and a second filter 21. The air space 30 is defined and
reinforced by an internal ring element 31. This ring 31
may be coated with an absorptive composition such as
charcoal. The charcoal may be applied to the ring or the
ring may be formed from some organic material such as
cellulose fibers and charred on the inside and/or outside
surface.

In the device according to Fig. 1 air is admitted into the
space 30 by means of the small orifice 32 in the wrapper
10 and a similar small orifice 33 in the ring 31. In the
drawing these orifices are shown as displaced from each
other although they can coincide, if desired. A similar

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effect can be obtained without orifice 33 since leakage
can be depended upon to admit air into the space 30 from
orifice 32.

In the operation of the device of Fig. 1 the smoke from
the end 11 when lighted, travels through the tobacco 13
and then passes through filter 21 to air space 30. In the
air space 30 a turbulence due to the relative increase in
cross sectional space between filter 21 and space 30 is
set up and the smoke is mixed together and/or with the
air from opening 32, passes over the absorptive charcoal
surfaces of the ring 31, and then passes through the
second filter 20 whereupon it is again filtered before pass-
ing into the user's mouth and lungs.

The cigarette of Figs. 2 and 3 is substantially the same
as that of Fig. 1 except that in the case of Figs. 2 and 3
the air holes 32 and 33 are omitted. Except for the mix-
ing with air, substantially the same effect takes place with
the cigarette of Figs. 2 and 3 as with the cigarette of Fig.
1. As shown in Fig. 3 the ring element 31 and the gen-
eral configuration of the cigarette is round but the cig-
arette may be oval in shape or other similar shape, if
desired. The outside diameter of the ring 30, the filter
elements 20 and 21 and the tobacco filler pack 13 is sub-
stantially the same.

The features and principles underlying the invention
described above in connection with specific exemplifica-
tions will suggest to those skilled in the art many other
modifications thereof. It is accordingly desired that the
appended claims shall not be limited to any specific feature
or details thereof.

I claim:

1. In a cigarette of the type having a tobacco contain-
ing portion and a distinct filter portion adjacent the
mouthpiece thereof with the filter portion and tobacco
containing portion covered by the same wrapper, the
improved construction of the filter portion comprising a
first, longitudinally extending filter element filling and
supporting the wrapper from the inside thereof, a second
filter element spaced from the first filter element filling and
supporting the wrapper from the inside thereof, and ring
means on the inside of said wrapper defining an air space
separating the first and second filter elements, said ring
means supporting the wrapper from the inside thereof,
said wrapper containing a single small orifice in the por-
tion thereof surrounding the ring means.

2. The cigarette as set forth in claim 1 in which the
ring comprises a charcoal coating.

3. The cigarette as claimed in claim 1 wherein the ring
means contains a small orifice in alignment with the
orifice of the wrapper.

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