

May 18, 1937.

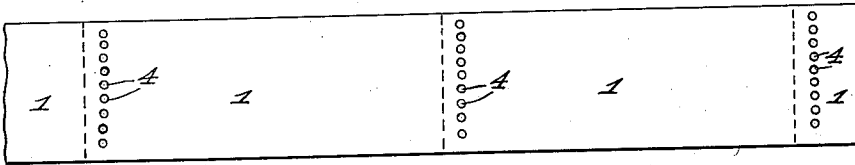
D. C. DURDEN

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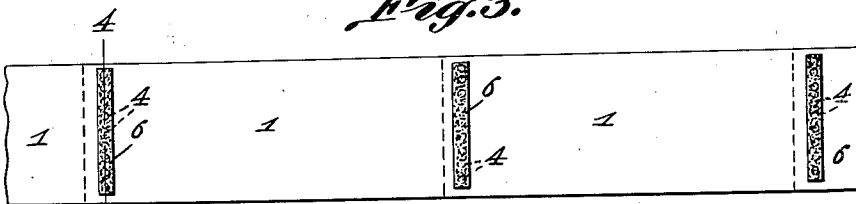
COMBINED CIGARETTE AND IGNITING MEANS

Filed Aug. 28, 1935

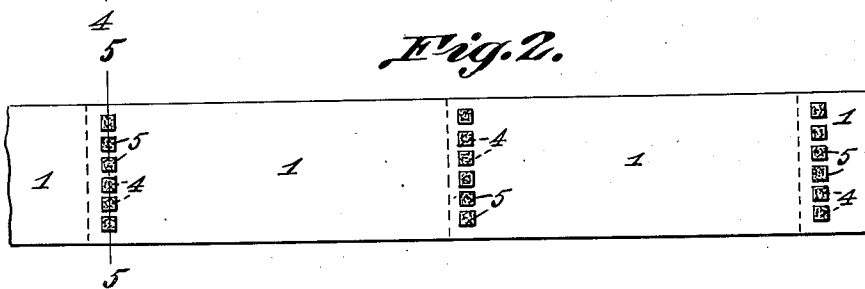
*Fig. 1.*



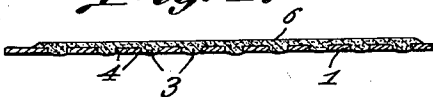
*Fig. 3.*



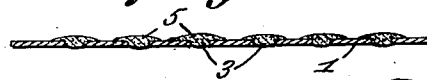
*Fig. 2.*



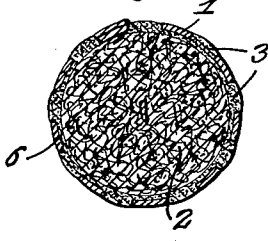
*Fig. 4.*



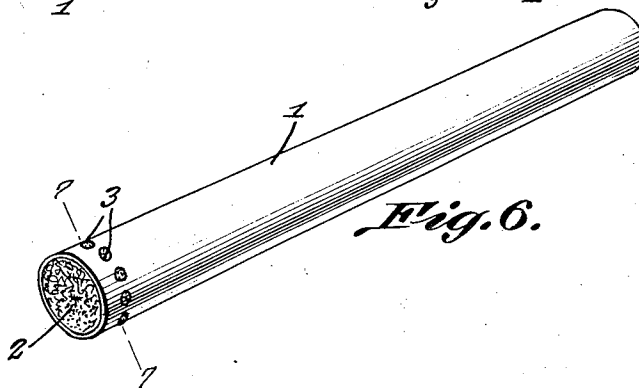
*Fig. 5.*



*Fig. 7.*



*Fig. 6.*



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## UNITED STATES PATENT OFFICE

2,080,536

COMBINED CIGARETTE AND IGNITING  
MEANS

Deal Clifford Durden, Seattle, Wash.

Application August 28, 1935, Serial No. 38,278

2 Claims. (Cl. 131—52)

My invention relates to a combined cigarette and igniting means therefor and to a method of making the same.

Generally speaking, the primary object of my invention is to provide a cigarette having incorporated therewith a simple and practical lighting means adapted for ignition by frictional contact with any suitable surface and whereby the cigarette may be conveniently lighted without recourse to separate lighting mediums such as matches or cigarette lighters.

Another object is to provide a method of incorporating an ignitable medium with the cigarette in the process of manufacture of the latter and which does not appreciably increase the cost of manufacturing the cigarette.

Other and subordinate objects will appear when the following description and claims are read in conjunction with the accompanying drawing.

In said drawing:

Figure 1 is a view of a strip of cigarette wrappers illustrating one of the steps in the method of forming my combined cigarette and igniting means.

Fig. 2 is a similar view illustrating another step in the method.

Fig. 3 is another similar view illustrating an alternative step in the method.

Fig. 4 is a view in transverse section taken on the line 4—4 of Figure 3 and drawn to an enlarged scale.

Fig. 5 is a similar view taken on the line 5—5 of Figure 2.

Fig. 6 is a perspective view of a cigarette as it appears after the final step in the method and

Fig. 7 is a view in transverse section taken on the line 7—7 of Figure 6.

Referring to the drawing, particularly to Figures 4 to 6 thereof, the combined cigarette and igniting means of my invention comprises a cigarette wrapper 1 formed of the usual material and a tobacco filler 2. Adjacent one end of the cigarette is an ignitable means preferably having the form of a circular series of spaced apart plugs 3 fitted into apertures 4 in the wrapper and formed of any suitable compound which is ignitable under friction such, for instance, as that used in the ordinary safety match of commerce. The plugs 3 project slightly beyond each side of the wrapper 1 so that on one hand they are embedded in the filler 2 and on the other hand protrude from the outer face of the wrapper to a sufficient

extent to facilitate frictional engagement thereof with a suitable surface for igniting them.

On the inside of the wrapper, plugs 3 may be provided with head portions 5 preferably square in shape as shown in Figure 5 to prevent the plugs from becoming detached and formed of a suitable material or compound adapted to glow when ignited, for instance, that used in the manufacture of ordinary matches. In lieu of the separate heads 5 plugs 3 may be incorporated with a circular band of said glow compound as shown in Figures 3, 4 and 6 the band being located on the inside of the wrapper in contact with the filler 2.

By manipulating the outer ends of one or more of the plugs 3 against a suitable surface said plugs may be caused to ignite and in turn ignite the glow material or compound and the cigarette 2 as will be clear.

In making my combined cigarette and igniting means a strip of wrapper material including a series of cigarette lengths of wrapper is perforated to provide a transverse row of preferably circular apertures 4 adjacent one end of each length. The rows of apertures either singly or in series are then filled or plugged with an ignitable compound in paste form so that the plugs when dry will extend slightly beyond both sides of the wrapper. The plugs are then allowed to dry. The other ends of the plugs 4 are then capped on one side of the wrapper with a paste of ignitable compound adapted to glow when ignited. The paste of glow compound is then allowed to dry. The wrapper is then rolled around the filler into cigarette form with the capped ends of the plugs inside the wrapper.

In lieu of the caps a circular band of the same compound as said caps may be applied over said plugs. The band is then dried and the cigarette rolled with said band on the inside of the wrapper. The band 6 may be cemented to the wrapper, or may contain an adhesive material for securing it thereto or may be incorporated with the plugs without the use of an adhesive.

Although I have described in the foregoing a preferred form of my combined cigarette and igniting means therefor and a preferred method of making the same, right is herein reserved to modifications of both the article and the method within the scope of the appended claims.

What I claim is:

1. The herein described method of incorporating ignitable material with a cigarette and comprising, forming a series of apertures at one end of the cigarette wrapper transversely thereof,

plugging said apertures with a paste of ignitable material, drying said plugs, applying to said plugs on one side of the wrapper ignitable material adapted to glow when ignited, and rolling said wrapper around a filler into cigarette form with said last material inside the wrapper.

2. The herein described method of incorporating ignitable material with a cigarette and comprising, forming a series of apertures at one end

of the cigarette wrapper transversely thereof, filling said apertures with a paste compound of ignitable material, drying said filler, applying to said wrapper on one side thereof and over said filler a band of ignitable material adapted to glow when ignited, and rolling the wrapper around a filler into cigarette form with said band on the inside of said wrapper.

DEAL CLIFFORD DURDEN.