Dec. 25, 1962 D. W. COATS 3,069,886

COMBINATION CIGARETTE PACKAGE AND LIGHTER

Filed Nov. 20, 1961

Fig. 1.

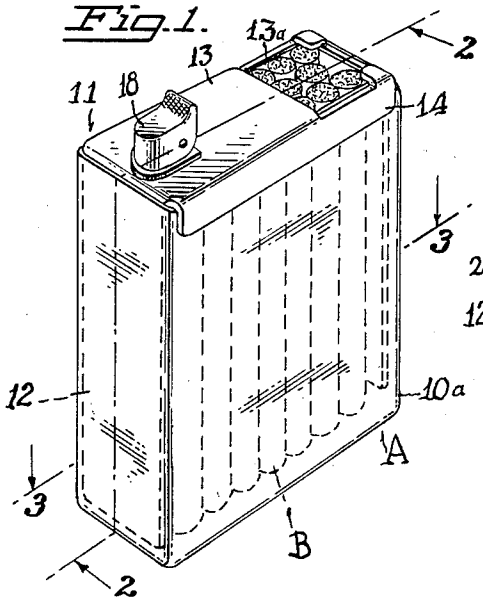


Fig. 3.

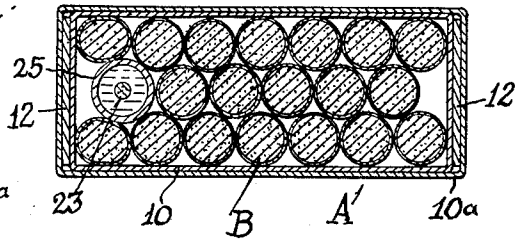


Fig. 2.

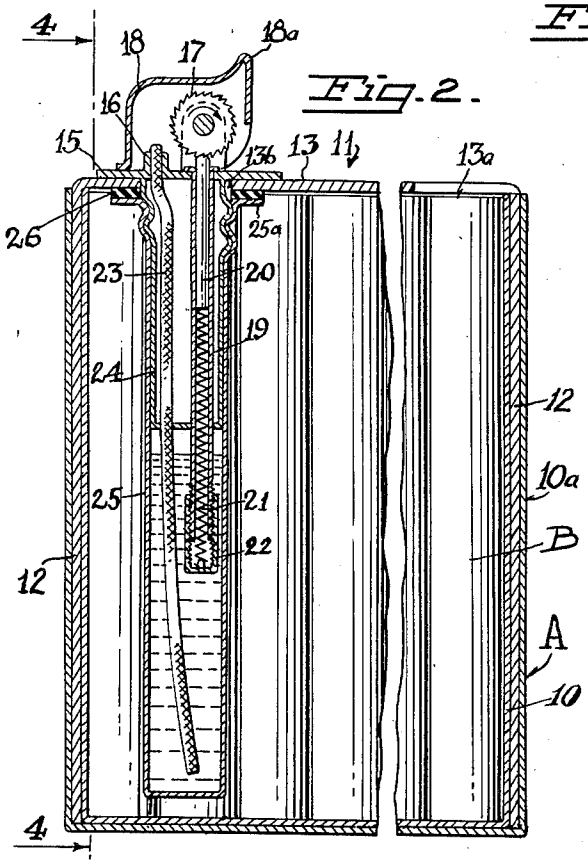
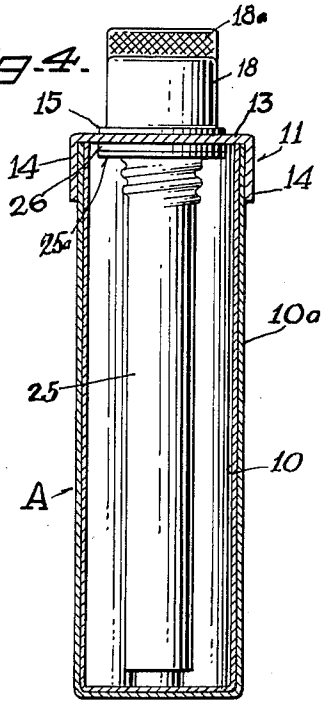


Fig. 4.



INVENTOR.
DARREL W. COATS
BY
J. E. Dabucco
ATTORNEY

United States Patent Office

3,069,886

Patented Dec. 25, 1962

3,069,886

COMBINATION CIGARETTE PACKAGE AND LIGHTER

Darrel W. Coats, Daly City, Calif. (338 Raymond St., San Francisco 24, Calif.)

Filed Nov. 20, 1961, Ser. No. 153,596
4 Claims. (Cl. 67—7.1)

This invention relates to a combination cigarette package and lighter.

The present invention provides a novel combination including a cigarette package and a lighter supported thereon. The lighter is mounted on a rigid U-shaped frame having an intermediate portion adapted to overlie the cigarettes in the package and two (2) depending stiffening legs which are adapted to extend downwardly into the package between the inner cigarette container and the outer cover thereof. The lighter embodies a novel construction wherein its friction wheel, wick tube and closure cap are mounted on and disposed above the intermediate portion of the frame, and its fluid container in the form of a cylinder embodying the general shape and size of a cigarette extends downwardly into the cigarette package. The combination comprising the rigid frame with the lighter and fluid container, arranged so the fluid container extends into and is concealed within the cigarette package, provides a compact accessory adapted to be conveniently carried by the cigarette package.

An object of my invention is to provide a novel combination cigarette package and lighter of the kind characterized, embodying a rigid U-shaped frame which is adapted to support a lighter in a convenient position wherein its friction wheel and associated parts are disposed above the package and its fluid container is concealed within such package.

Another object of my invention is to provide a combination cigarette package and lighter having stiffening members adapted to extend lengthwise alongside opposed sides of the package to prevent damage to the cigarettes therein.

Other and further objects of my invention will be pointed out hereinafter or will be indicated in the appended claims or will be obvious to one skilled in the art upon an understanding of the present disclosure. For the purpose of this application, I have elected to show herein certain forms and details of a combination cigarette package and lighter embodying my invention; it is to be understood, however, that the embodiment of my invention shown and described herein is for purposes of illustration only, and that it is not to be regarded as exhaustive of the variations of the invention in the art.

In the accompanying drawing:

FIG. 1 is a perspective view of a combination cigarette package and lighter embodying my invention;

FIG. 2 is a sectional view, on an enlarged scale, taken along the line 2—2 of FIG. 1;

FIG. 3 is a sectional view, on an enlarged scale, taken along the line 3—3 of FIG. 1; and

FIG. 4 is a sectional view taken along the line 4—4 of FIG. 2.

The present invention is intended for use with a conventional cigarette package A of the type having an inner container 10 normally holding twenty (20) cigarettes B, and an outer cover 10*a* of paper or other suitable material. Although not shown, the outer cover 10*a* is enclosed in a cellophane or other type of protective covering to prevent the cigarettes from losing their normal moisture content.

A rigid lighter supporting frame 11 embodying my invention comprises opposed parallel legs 12, 12 adapted

to extend from the top to the bottom of the package A along the narrower sides thereof, and preferably between the inner container 10 and the outer cover 10*a*. The legs are aproximately the width of the inner container 10, and the upper ends of such legs are connected to an intermediate member 13 formed with depending opposed narrow side flanges 14, 14 which extend downwardly alongside opposite sides of the outer cover 10*a*. The intermediate member 13 is provided with an opening 13*a* at one end through which the cigarettes B may be withdrawn, it being desirable to partially or entirely tear away the top sides of the container 10 and the outer cover 10*a* before the frame is mounted on the package.

The intermediate member 13 of the U-shaped frame is also provided with a suitable opening 13*b* which is utilized in the mounting of a lighter on the frame. Extending over the opening 13*b* in the intermediate member 13 of the U-shaped frame is a plate 15 upon which is mounted various parts of a conventional lighter, including a wick tube 16, a rotatable friction wheel 17, a closing cap 18 keyed to the friction wheel, and the upper end of a flint tube 19 containing a flint element 20 which is maintained in firm engagement with the serrated periphery of the friction wheel by a coil compression spring 21. The lower end of the flint tube 19 is externally threaded, and adjustably mounted thereon is an internally threaded cap 22 which engages with the lower end of the spring 21 to provide means for adjusting the tension of the spring. Extending upwardly through the wick tube 16 is an elongated wick 23, the upper end of which is exposed and positioned to intercept sparks resulting from the rotation of the friction wheel 17 in a clockwise direction (FIG. 2) against the upper end of the flint element 20. The closing cap 18 is provided with an upturned end portion 18*a* which is preferably knurled to facilitate the turning of the cap in a clockwise direction to actuate the friction wheel in the same direction to produce a spark for the igniting of the wick.

Secured by an impervious connection to the lower side of the plate 15 is a hollow depending cylindrical or tubular member 24 of suitable length, the upper end portion of which extends through the opening 13*b* and is formed with threads for the connection of an elongated cylindrical fluid container 25 holding a supply of combustible fluid. The upper end portion of the container 25 is formed with suitable threads which are adapted to engage with the threads of the cylindrical member 24, and the upper end of said container is formed with a circular outwardly extending flange 25*a* which is adapted to engage with a resilient neoprene gasket 26 interposed between the intermediate frame member 13 and the said flange 25*a*. When the container 25 is tightly screwed onto the threaded portion of the cylindrical member 24 so the flange 25*a* thereof firmly presses against the gasket 26, fluid held in the container is prevented from escaping. The wick 23 is sufficiently long to extend well into the lighter fluid held in the container 25. The supply of lighter fluid may be replenished by unscrewing the container 25 and thereby detaching it from the cylindrical member 24. The diameter and general shape of the cylindrical fluid container 25 is approximately the same as a cigarette B, thereby making it possible by extracting a certain cigarette from the package and replacing it with the container, to attach the combination frame and lighter to the package. The frictional engagement of the legs 12, 12 with respect to the inner container 10 and the outer cover 10*a* normally prevents the detachment of the U-shaped frame from the package.

What I claim is:

1. In combination with a cigarette package of the type having an inner cigarette container and an outer cover,

a substantially U-shaped frame having a pair of stiff parallel legs and a rigid intermediate member, the legs being adapted to extend into the package at opposite sides thereof between the inner container and the outer cover and the intermediate member being adapted to overlie the upper ends of the cigarettes held in the container, the intermediate member of the frame having an opening for the withdrawal of cigarettes from the inner container, a lighter supported on the intermediate member, such lighter having a wick holding tube and spark producing means disposed above the intermediate member and such lighter having a depending elongated fluid container extending into the inner cigarette container and arranged to supply fluid to the wick.

2. In combination with a cigarette package of the type having an outer cover enclosing a number of cigarettes, a substantially U-shaped frame having a pair of parallel legs and an intermediate member, the legs being adapted to extend into the package adjacent opposed sides of the outer cover, and the intermediate member being adapted to overlie the upper ends of the cigarettes and having a first opening for the withdrawal of cigarettes from the package, a plate superimposed on the intermediate member and arranged in closing relationship with respect to a second opening in the intermediate member, a wick tube containing a wick and spark producing means mounted in cooperative relationship on the plate, a depending tubular member secured to the plate and extending downwardly into the outer cover through the second opening in the intermediate frame member, and an elongated fluid container connected to the tubular member and extending downwardly alongside cigarettes held in the package, the fluid container being arranged to enclose a portion of the wick.

3. In a flint lighter assembly adapted to be mounted on a cigarette package, the combination comprising a substantially U-shaped frame having laterally spaced depending parallel legs and an intermediate member, the intermediate member having a first large opening and a second smaller opening, a plate superimposed on the intermediate member in closing relationship to the second opening, a wick tube containing a wick mounted on the plate, a friction wheel rotatably mounted on the plate adjacent the wick tube, a flint tube secured to the plate and arranged in a depending position beneath the friction wheel, a flint element held in the flint tube and arranged in contacting relationship with respect to the periphery of the friction wheel, a depending tubular member secured to the plate and extending through the second opening in the intermediate member, and a depending cylindrical fluid container connected to the tubular member and arranged to enclose a substantial portion of the wick and the flint tube.

4. In combination with a cigarette package of the type having an outer container enclosing a number of cigarettes, a flint lighter assembly adapted to be mounted on the cigarette package, the flint lighter assembly comprising a rigid U-shaped frame having opposed parallel legs adapted to extend into the cigarette package along opposite sides thereof and an intermediate member connected to the upper ends of the legs and adapted to extend above the top side of the cigarette package, the intermediate member having an opening for the withdrawal of the cigarettes, and a flint lighter mounted on the intermediate member between the legs, the said lighter including an elongated slender fuel container extending downwardly from the intermediate member and into the cigarette package.

References Cited in the file of this patent

UNITED STATES PATENTS

1,862,518	Alland	June 14, 1932
2,007,629	Aronson	July 9, 1935