

Nov. 7, 1950

A. F. FUKAL

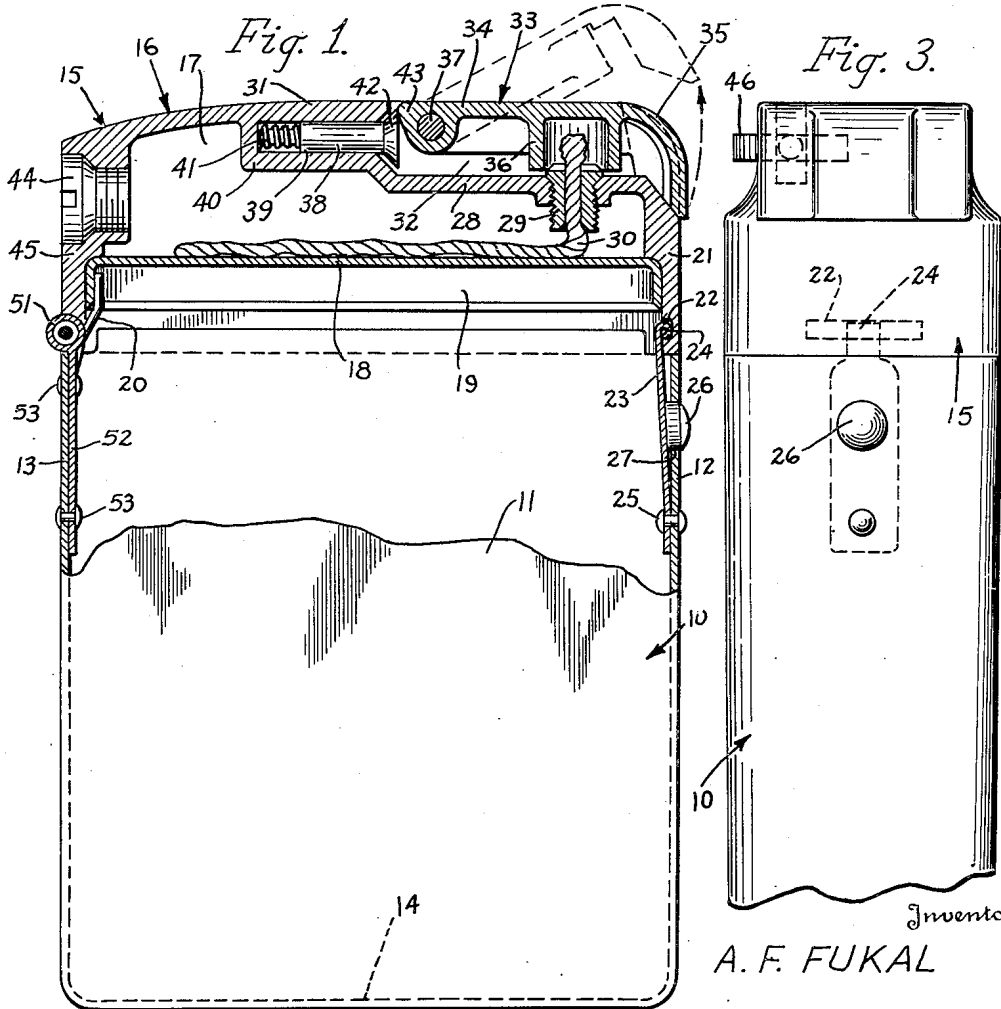
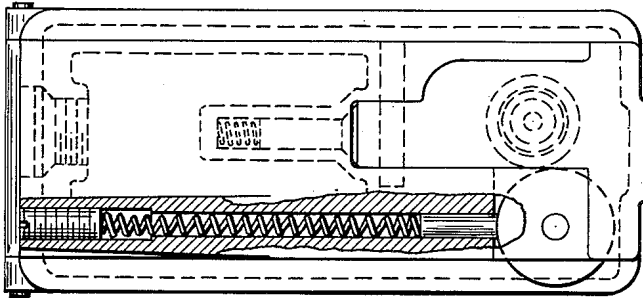
2,529,150

COMBINED CIGARETTE CASE AND LIGHTER

Filed Oct. 15, 1946

2 Sheets-Sheet 1

Fig. 2.



Inventor  
A. F. FUKAL

By *Kimmel & Crowell*  
Attorneys

Nov. 7, 1950

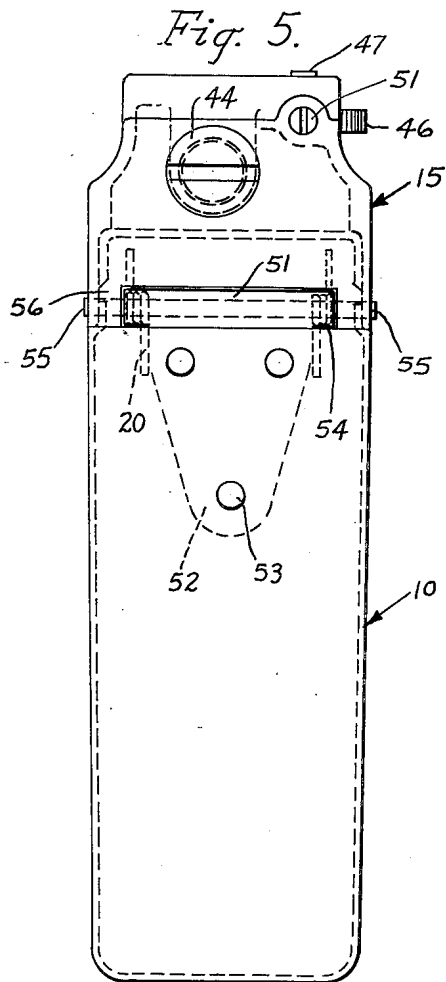
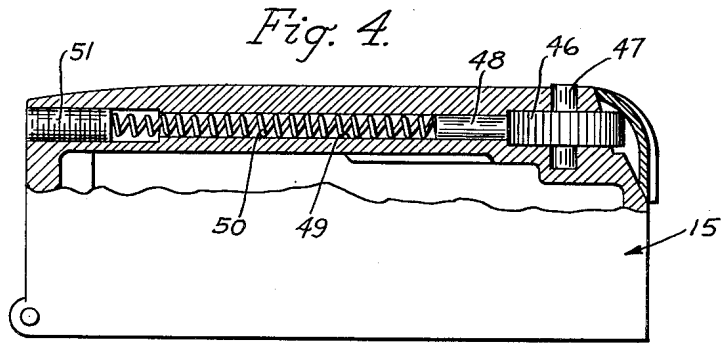
A. F. FUKAL

2,529,150

COMBINED CIGARETTE CASE AND LIGHTER

Filed Oct. 15, 1946

2 Sheets-Sheet 2



Inventor

A. F. FUKAL

By *Himmel + Crowell*  
Attorneys

# UNITED STATES PATENT OFFICE

2,529,150

## COMBINED CIGARETTE CASE AND LIGHTER

Alfred Francis Fukal, Cambridge, Ohio, assignor  
to Franklin Sales & Manufacturers, Inc., Co-  
lumbus, Ohio

Application October 15, 1946, Serial No. 703,313

1 Claim. (Cl. 67-7.1)

1

This invention relates to improvements in a combined cigarette case and lighter.

An object of this invention is to provide an improved cigarette case and lighter wherein the cover of the case includes a lighter which may be used with the cover in either open or closed position.

Another object of the invention is to provide an improved lighter which is of simple construction, and which may be incorporated in the lid or cover of a cigarette case.

A further object of the invention is to provide a combined cigarette case and cover of this kind which is of simple construction so that it can be made at a relatively low cost.

With the above and such other objects in view as may hereinafter more fully appear, the invention consists of the novel construction and operation herein stated, but it is to be understood that changes, variations and modifications may be resorted to which fall within the scope of the invention as claimed.

In the drawings,

Figure 1 is a detail side elevation, partly broken away and in section, of a combined cigarette case and lighter constructed according to an embodiment of this invention,

Figure 2 is a plan view, partly broken away and in section, of the device,

Figure 3 is a front elevation, partly broken away, of the device,

Figure 4 is a detail side elevation, partly broken away and in section, of the lighter on the flint abrader side.

Figure 5 is a detail rear elevation of the device.

Referring to the drawings the numeral 10 designates generally a receptacle which is designed for receiving cigarettes. The receptacle 10 includes opposite side walls 11, a front wall 12, and a rear wall 13.

The bottom wall 14 is secured between the side and front and rear walls. The receptacle 10 has hingedly mounted on the upper end thereof a combined closure or lighter, generally designated as 15. The combined closure and lighter 15 includes a housing 16 which is formed with a wick chamber 17. The wick chamber 17 has fixed to the bottom thereof a bottom wall 18 formed with depending flanges 19 fixed to the sides and ends of the housing 16.

A spring 20 is adapted to normally urge the housing 16 upwardly to open position. The front wall 21 of the housing 16 is formed with a notch 22 on the inside thereof and a resilient locking bar 23 which is formed with a rolled upper end

2

24 is adapted to engage in the notch or keeper 22.

The lower end of the locking bar 23 is fixed by means of a rivet or fastening member 25 to the inner side of the front wall 12. An operating button 26 is carried by the locking bar 23 and projects through an opening 27 formed in the front wall 12. The chamber 17 includes a top wall 28 which has threaded therethrough a wick guiding nipple 29.

The wick 30 is extended through a bore of the nipple 29 and has a small portion thereof projecting above the nipple 29 and the remainder thereof disposed in the fuel chamber 17 which is adapted to be filled with cotton or the like and saturated with liquid fuel.

The wall 28 is disposed below the top wall 31 of the housing 16, thereby forming a wick or combustion chamber 32. A spring-pressed closure 33 is adapted to be normally disposed in closed position over the wick 30 and includes a top wall 34 formed with a rounded forward end 35.

A cylindrical wick extinguishing member 36 is carried by the wall 34 and is adapted to engage over the wick 30 when the closure 33 is in closed position. The closure 33 is hingedly mounted on a pintle 37 and is constantly urged to closed position by means of a spring-pressed pin 38 which is slidable in a bore 39 formed in a lug 40 carried by the top wall 31. A spring 41 constantly urges the head 42 of the pin 38 against a lug or cam member 43 which projects rearwardly from the pintle 37.

A threaded plug 44 is threaded into the rear wall 45 of the housing 16, and provides a means whereby liquid fuel may be poured into the fuel chamber 17.

The housing 16 also includes an abrading wheel 46 carried by a pin or shaft 47. The abrading wheel 46 is adapted to engage against a pyrophoric element or flint 48 disposed in an elongated bore 49 and a spring 50, which is tensioned by a screw 51 constantly holds the flint 48 against the abrading wheel 46. The wheel 46 projects outwardly of the housing 16, as shown in Figures 3 and 5 so that the abrading wheel may be engaged with a thumb or finger to rotate the same after the closure 33 has been raised to provide for lighting of the wick 30 by a spark generated through rotation of the abrader 46.

The combined closure and lighter housing 15 is hingedly secured to the case 10 by means of a hinge barrel 51a carried by a leaf 52 which is fixed by fastening devices 53 to the case 10. The barrel 51a is formed with semi-cylindrical end

3

portions 54 within which the coils of the springs 20 engage. A pintle 55 extends through ears 56 carried by the housing 15 and extends through the coils of springs 20 and through the barrel 51a.

In the drawings, the abrading wheel 46 is shown on the left side of the housing 15 (Fig. 3) but it will be understood that this wheel may be disposed on the opposite side of housing 15 and the associated parts may be likewise changed as to their indicated positions.

What I claim is:

A combined cigarette lighter and closure for a cigarette case comprising a housing having a stepped top wall forming a depressed portion defining a combustion chamber, a fuel chamber underlying said top wall, a wick in said fuel chamber having an end thereof extending through said depressed portion of said top wall and into said combustion chamber, said housing including a thickened side wall formed with a bore extending therealong, an abrading wheel rotatably carried by said housing adjacent said wick end for rotation in a plane parallel to said top wall, said wheel confronting an end of said bore and extending outwardly through said side wall, a pyrophoric element in said bore extending out of said end of the latter and engaging said wheel, spring means in said bore constantly urging said pyrophoric element against said wheel, a bore in said stepped top wall opening through the vertical portion thereof, a beveled

4

edge on the mouth of said last mentioned bore, a cover for said combustion chamber having an end pivotally mounted on said top wall adjacent said vertical portion of the latter, a double cam surface having a projecting point to afford an over center snap action formed on said end of said cover, a spring urged headed pin in said second bore engaging said cam surface for holding said cover in either the open or closed position thereof, the head of said pin being beveled in conformity to the mouth of said bore, the end wall of said cover opposite the stepped portion thereof having a threaded fuel opening therein, and a threaded closure for said opening.

ALFRED FRANCIS FUKAL.

#### REFERENCES CITED

The following references are of record in the file of this patent:

#### UNITED STATES PATENTS

Number	Name	Date
1,494,165	Hall	May 13, 1924
1,688,485	Clark	Oct. 23, 1928
1,819,427	Maisto	Aug. 18, 1931
2,032,695	Gimera et al.	Mar. 3, 1936

#### FOREIGN PATENTS

Number	Country	Date
567,198	Great Britain	Feb. 1, 1945
586,813	Great Britain	Apr. 1, 1947