April 1, 1958 A. MOSCH 2,828,855

UTILITY COMPACT

Filed March 4, 1955 2 Sheets-Sheet 1

Fig. 1.

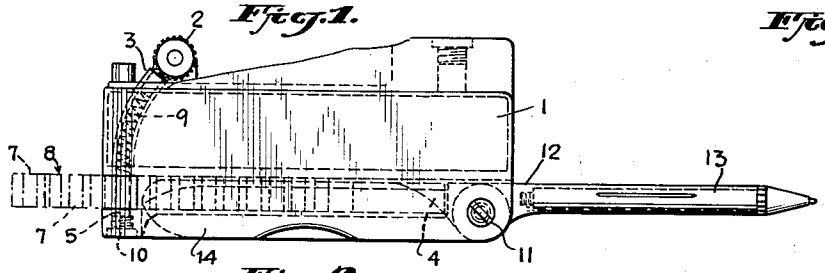


Fig. 3.

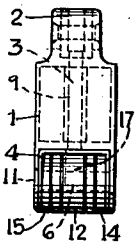


Fig. 2.

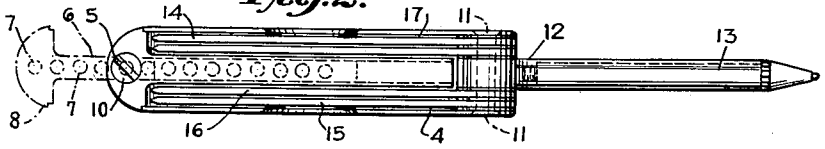


Fig. 4.

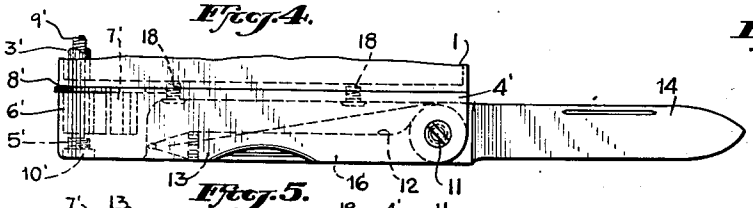


Fig. 6.

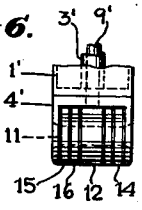


Fig. 5.

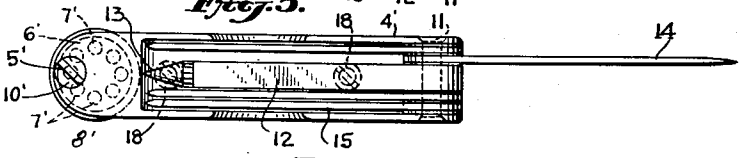


Fig. 7.

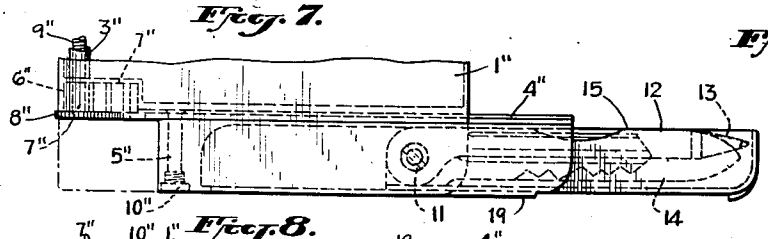


Fig. 9.

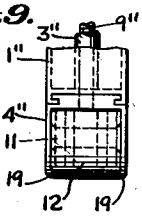


Fig. 8.

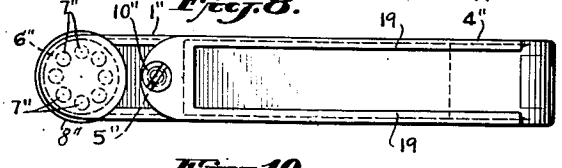


Fig. 10.

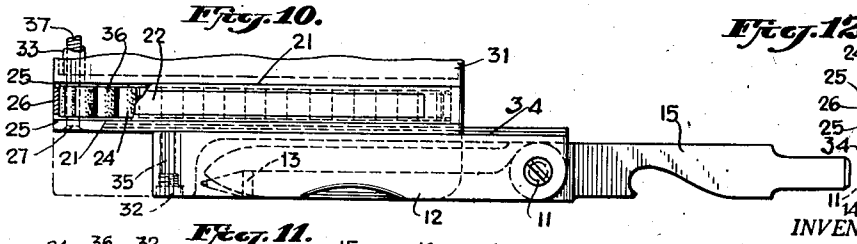


Fig. 12.

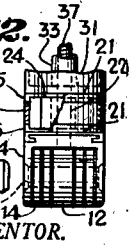
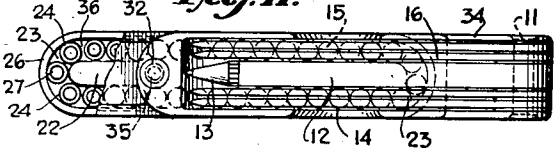


Fig. 11.



INVENTOR.
ALFRED MOSCH.
BY
K. A. Mayer
ATTORNEY.

April 1, 1958 A. MOSCH 2,828,855

UTILITY COMPACT

Filed March 4, 1955 2 Sheets-Sheet 2

Fig. 13.

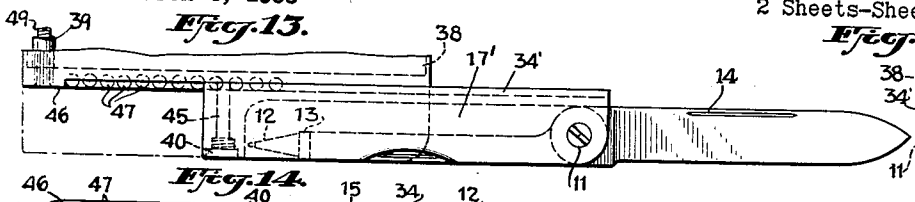


Fig. 15.

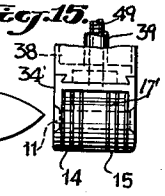


Fig. 14.

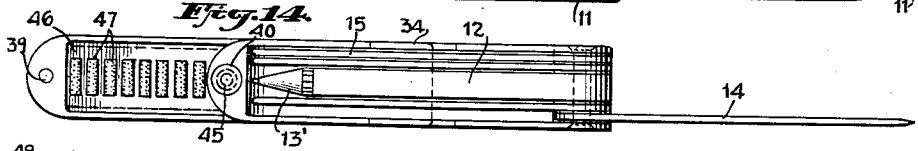


Fig. 16.

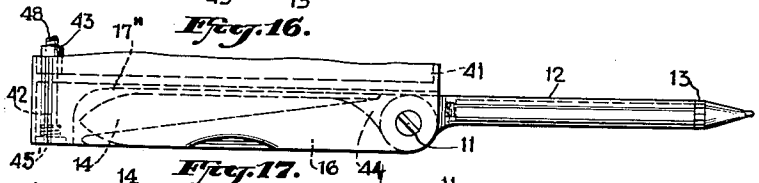


Fig. 18.

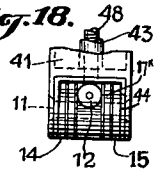


Fig. 17.

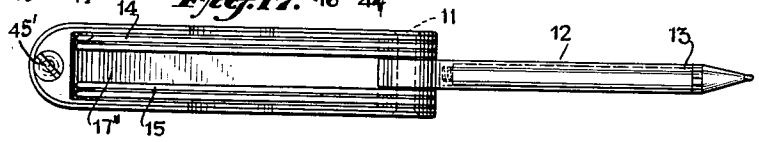


Fig. 19.

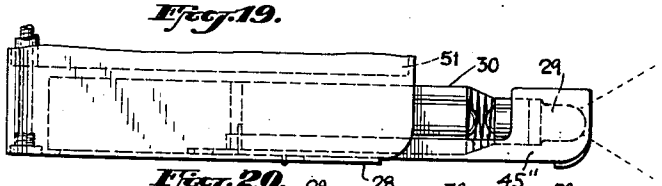


Fig. 21.

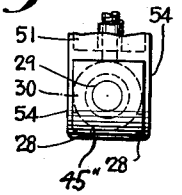


Fig. 20.

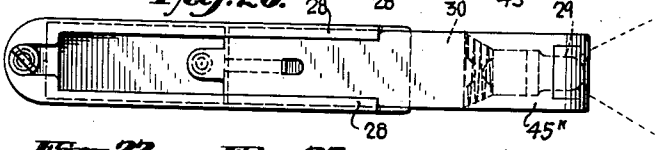


Fig. 22.

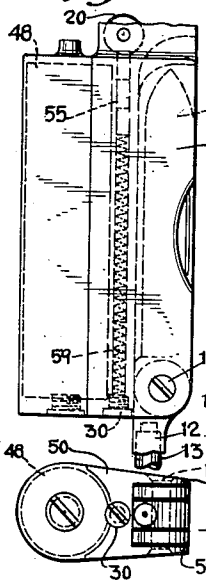


Fig. 23.

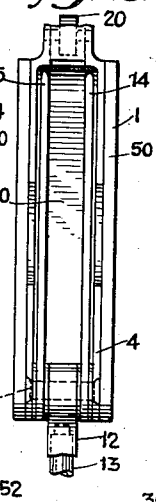


Fig. 25.

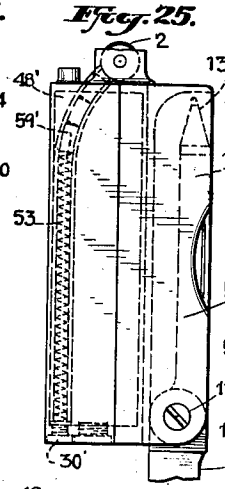


Fig. 26.

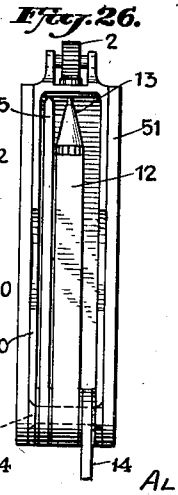
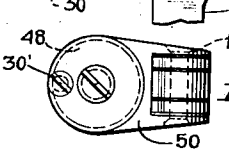


Fig. 24.

Fig. 27.



INVENTOR.
ALFRED MOSCH
BY
K. A. Mayr.
ATTORNEY.

United States Patent Office 2,828,855 Patented Apr. 1, 1958

2,828,855

UTILITY COMPACT

Alfred Mosch, Jackson Heights, N. Y.

Application March 4, 1955, Serial No. 492,284

6 Claims. (Cl. 206—38)

The present invention relates to a utility compact including a pyrophoric lighter and one or more other utensils, such as a pen, knife, pencil, nail file, screw driver, can opener, bottle opener, flash light, or the like.

It is an object of the present invention to provide a utility compact including a pyrophoric lighter and at least one other utensil or implement in such combination that the lighter and the implement or implements can be used individually without any disassembly.

It is a further object of the present invention to provide a utility compact including a pyrophoric lighter and at least one other utensil in such combination as to require a minimum of space, the compact having such a configuration as to conveniently fit into a vest pocket or a lady's handbag.

A further object of the invention is the provision of a utility compact including a pyrophoric lighter and one or more other implements, and also a magazine holding a plurality of spare flints for the lighter.

Another object of the invention is the provision of a utility compact including a pyrophoric lighter and one or more other implements which are interchangeably connected with the body of the pyrophoric lighter.

An object of the invention resides in the provision of a utility compact including a pyrophoric lighter and a plurality of other implements which are interconnected to form a unit which is removably mounted on the lighter body and can be interchanged for other units or for an individual implement, for example a flashlight.

The novel features which are considered characteristic of the invention are set forth with particularity in the appended claims. The invention itself however and additional objects and advantages thereof will best be understood from the following description of embodiments thereof when read in conjunction with the accompanying drawing, in which

Fig. 1 is a portion of a side elevation of a utility compact according to the invention;

Fig. 2 is a bottom view of the compact shown in Fig. 1;

Fig. 3 is an end view of the exchangeable bottom part of the compact shown in Fig. 1;

Fig. 4 is a part of a side elevation of a modified utility compact according to the invention;

Fig. 5 is a bottom view of the compact shown in Fig. 4;

Fig. 6 is an end view of the compact shown in Fig. 4;

Fig. 7 is a part of a side elevation of a third modification of a utility compact according to the invention;

Fig. 8 is a bottom view of the compact shown in Fig. 7;

Fig. 9 is an end view of the compact shown in Fig. 7;

Fig. 10 is a part of a side elevation of a fourth modification of a utility compact according to the invention;

Fig. 11 is a bottom view of the compact shown in Fig. 10;

Fig. 12 is an end view of the compact shown in Fig. 10;

Fig. 13 is a part of a side elevation of a fifth modification of a utility compact according to the invention;

Fig. 14 is a bottom view of the compact shown in Fig. 13;

Fig. 15 is an end view of the compact shown in Fig. 13;

Fig. 16 is a part of a side elevation of a sixth modification of a utility compact according to the invention;

Fig. 17 is a bottom view of the compact shown in Fig. 16;

Fig. 18 is an end view of the compact shown in Fig. 16;

Fig. 19 is a part of a side elevation of a seventh modification of a utility compact according to the invention;

Fig. 20 is a bottom view of the compact shown in Fig. 19;

Fig. 21 is an end view of the compact shown in Fig. 19;

Fig. 22 is a part of a side elevation of an eighth modification of a utility compact according to the invention;

Fig. 23 is a side view of the compact shown in Fig. 22;

Fig. 24 is a bottom view of the compact shown in Fig. 22;

Fig. 25 is a part of a side elevation of a ninth modification of a utility compact according to the invention;

Fig. 26 is a side view of the compact shown in Fig. 25;

Fig. 27 is a bottom view of the compact shown in Fig. 25.

The same numerals designate the same parts in all figures.

The utility compact illustrated in Figs. 1 to 3 of the drawing includes a pyrophoric lighter of which only the lower part is shown. The lighter extends from a casing member **1** including a fuel tank and is provided with a conventional abrasive wheel **2** which is adjacent to a flint projecting from a tube **3** which extends through the casing **1** and contains a coil spring **9** for pressing a flint to the wheel **2**. The lower portion of the member **1** is provided with a bore **5** aligned with the lower end of the tube **3** and closed by a screw plug **10**. A slide **6** can be pushed into and pulled out of a channel **17** forming part of a utensil holding member **4**, a handle **8** being provided at the end of the slide **6** for this purpose. The slide **6**, which is shown in dash-dot lines in partly pulled out position, is provided with a plurality of bores **7** for individually receiving a spare flint. The bores **7** can be individually aligned with the bore **5**, so that a new flint can be pushed into the tube **3** after removal of the plug **10** and spring **9**. The member **4** is held in the lower portion of the member **1** between flaps depending from the sides of the member **1**. Utensils, such as knife **14**, a bottle opener **15**, a nail file **16** are arranged on either side of the channel **17** and inside of the flaps of the member **1** when the utensils are in rest position. The utensils are hinged to the holding member **4** by means of a pin **11** extending also through the downwardly extending flap portions of the casing **1**. A receptacle or holder **12**, also hinged to the member **4** by the pin **11**, is below the channel **17** when in retracted position. The holder **12** may be used for interchangeably holding a pencil **13** or an ink cartridge of a pen. When a utensil is used, it is swung on the pin **11**, as is the pencil **13** in Figs. 1 and 2, the member **1** serving as a handle.

The modification illustrated in Figs. 4 to 6 shows a cylindrical flint magazine member **6'** rotatably inserted into a cylindrical cavity of utensil holding means **4'**, member **6'** having a plurality of bores **7'** placed in a circle for individually receiving a spare flint. Member **6'** has a portion **8'** accessible from the outside for rotating the magazine **6'** to align a bore **7'** with a flint tube **3'** containing a spring **9'** of a conventional pyrophoric lighter. The bore **7'** is simultaneously aligned with a bore **5'** in the bottom part of the utensil holding means **4'**. Upon removal of the spring **9'** and of a plug **10'**, normally closing the bore **5'**, a new flint can be pushed

into the tube 3'. The utensil holding means 4' can be disconnected from the member 1' by removing screws 18 to provide access to the top of the magazine 6' for refilling the latter. Utensils 12 to 16 are hinged to the holding means 4' as in the modification according to Figs. 1 to 3.

The modification illustrated in Figs. 7 to 9 includes a flint magazine member 6'' rotatably inserted into a cylindrical cavity in the bottom portion of a casing 1'', the member 6'' having a plurality of bores 7'' placed in a circle, each containing a spare flint. The member 6'' has a portion 8'' accessible from the outside for rotating the magazine 6''. A utensil holding means 4'' adapted to cover the bores 7'' is slidably and exchangeably connected with and adapted to hold member 6'' in the casing 1''. The means 4'' is provided with a bore 5'' closed by a plug 10''. When a flint is exhausted, it may easily be replaced by a new one stored in the magazine member 6''. Upon temporary removal of the screw plug 10'' closing the bore 5'' in the means 4'' and of the coil spring 9'' in the flint tube 3'', the magazine 6'' can be rotated, so that a new flint may be selected and transferred into the tube 3''. After reinsertion of the spring 9'' and of the plug 10'', the new flint is moved into operative position. Removal of the plug 10'' and of the spring 9'' makes it possible to push the utensil holding means 4'' to the right, so that the magazine 6'' can be refilled. The flap-like portions 19 of the utensil holding means 4'' swingably support a set of utensils 12 to 16 by means of a pivot 11.

The modification illustrated in Figs. 10 to 12 includes a flint magazine member 36 containing a great number of spare flints. The member 36 is attached to a casing 31 and includes two plates 21, a spacer 22 separating the plates and leaving a recess 23 accommodating a plurality of tubes or sleeves 24 which are adapted to individually receive a spare flint. A lip portion 25 on the plates 21 prevents the sleeves from falling out of the recess 23. An endless flexible belt 26 covers the sleeves 24. The belt is accessible from the outside and can be revolved for placing a sleeve 24 containing a flint in line with bores 27 of the plates 21 and with a flint tube 33 of a conventional pyrophoric lighter. A utensil holding means 34 is provided with protuberances fitting into corresponding grooves of the casing 31 for slidable attachment of the holding means 34 to the casing 31. The utensil holding means 34 is provided with a bore 35. When a flint is exhausted, it may easily be replaced by a new one, stored in the magazine member 36, upon temporary removal of a screw plug 32 and of a coil spring 37. If the screw plug 32 and the spring 37 are removed, the utensil holding member 34 is free to be moved to the right, so that the sleeves 24 can be individually aligned with the bore 27 of the lower plate 21. After return of the utensil holding member 34 to its former position, the spring 37 and the screw plug 32 are reinserted urging a new flint into operative position and holding the member 34 in place.

The modification shown in Figs. 13 to 15 includes a casing 38 containing fuel for a pyrophoric lighter, a tube 39 extending through the casing, a utensil holding member 34' slidably attached to the casing 38 and having a bore 45 adapted to be aligned with the end of the tube 39, and a flint magazine 46 having a plurality of grooves 47 for individually accommodating a spare flint. When a flint is exhausted it may be replaced by a new one stored in the magazine 46. Upon temporary removal of a screw plug 40 closing the bore 45 and of a spring 49, the holding member 34' is free to be moved to the right, so that a flint can be taken from the magazine member 46 and placed into the tube 39. By moving the utensil holding member 39 back to its former position, the spring 49 and the screw plug 40 can be reinserted, urging the new flint into operative position and locking the holding member 34' to the casing 38. The utensil holding member 34' is provided with a pivot means 11 swingably supporting a variety of utensils, such as a holder 12 exchangeably accommodating a replaceable ink cartridge 13' or a pencil, a knife 14, and the like. When not in use, the utensils rest in a recess 17' of the holding means 34'.

As shown in Figs. 16 to 18, a utensil holding means 44 may be placed between flaps downwardly extending from a casing member 41, a flint tube 43 extending through the member 41 and being aligned with a bore 42 closed by a screw plug 44, as in the modification shown in Figs. 1 to 3. Upon temporary removal of the screw plug 44 and of a spring 48, a worn flint may be replaced by a new one. No special flint storage magazine is provided in this modification of the utility compact. Utensils 12 to 16 are pivoted to the holding means 44 by means of a pivot 11. When in rest position, the utensils are in a recess 17''.

In the modification shown in Figs. 19 to 21, an interchangeable utensil supporting means 45'' is held and secured by lip portions 28 of flaps 54 depending from a casing 51, the rest of the device being similar to that illustrated in Figs. 16 to 18. The utensil holding means support a flashlight 29 and a battery 30 which may be substituted by a set of utensils swingably connected to the holding means which is in the form of a slide member adapted to be inserted in the channel formed by the flaps 54 and the lips 28.

Figs. 22 to 24 illustrate an embodiment of the invention in which the lighter is in upright position. It includes a casing 48 containing fuel, the casing 48 being attached to a utensil holding means 50. The latter is provided with a bore 55 for receiving flints which are pressed by a coil spring 59 against an abrasive wheel 20 which is also supported by the holding means 50. The bottom of the bore 55 is closed by a screw plug 30. The holding means 50 include lateral flaps 52 to which a set of utensils is pivoted as in the modification illustrated in Figs. 1 to 3.

The modification shown in Figs. 25 to 27 differs from that shown in Figs. 22 to 24 in that the flints and the spring 59' are contained in a tube 53 disposed in a fuel containing casing 48'. The lower end of the tube 53 is closed by a plug 30'.

While specific embodiments of the invention have been shown and described, it will be apparent to those skilled in the art that various changes, modifications, substitutions, additions and omissions may be made therein without departing from the spirit and scope of the invention as set forth in the appended claims.

What is claimed is:

1. A utility compact comprising, in combination, a pyrophoric lighter having a casing, holding means extending from said casing and having portions forming an oblong recess, an oblong flint magazine member placed in said recess and being held in place by said holding means, a plurality of utensils, and means for movably connecting said utensils with said holding means and affording movement of said utensils into said recess and adjacent to said flint magazine member when the utensils are at rest, and affording movement of said utensils to extend outside of said holding means and of said casing when said utensils are in operating position.

2. A utility compact as defined in claim 1 in which said holding means form a separate element and in which means are provided for removably connecting said holding means to said lighter casing.

3. A utility compact comprising, in combination, a pyrophoric lighter having a casing, holding means extending from said casing, a longitudinal recess in said holding means, a flint magazine having a longitudinal configuration and being slidably inserted in said recess, a plurality of utensils, and means individually movably connecting said utensils with said holding means and affording movement of said utensils into said recess and adjacent to said

magazine when the utensils are at rest, and affording movement of said utensils to extend outside of said holding means and of said casing when said utensils are in operating position.

4. A utility compact comprising, in combination, a pyrophoric lighter, a casing for said lighter, a holding member forming a cover, a plurality of utensils, means for movably connecting said utensils with said holding member and affording movement of said utensils into said holding member to be covered thereby when said utensils are at rest and affording individual movement of said utensils to project from said holding member when said utensils are in operating position, means for removably connecting said holding member to said lighter casing, and a plurality of cavities in said casing adapted to individually receive a spare flint, said cavities being closed and the spare flint being retained therein by said holding member.

5. A utility compact as defined in claim 1, in which said utensils have a substantially oblong configuration and are placed parallel to said flint magazine in said recess when the utensils are in rest position.

6. A utility compact as defined in claim 1, in which said utensils include a writing device having a holder which is pivotally connected with said holding means.

References Cited in the file of this patent

UNITED STATES PATENTS

685,765	Jacobs	Nov. 5, 1901
973,930	Fink	Oct. 25, 1910
1,729,967	Russell	Oct. 1, 1929
2,051,009	Porter	Aug. 11, 1936

FOREIGN PATENTS

921,538	France	Jan. 3, 1947