

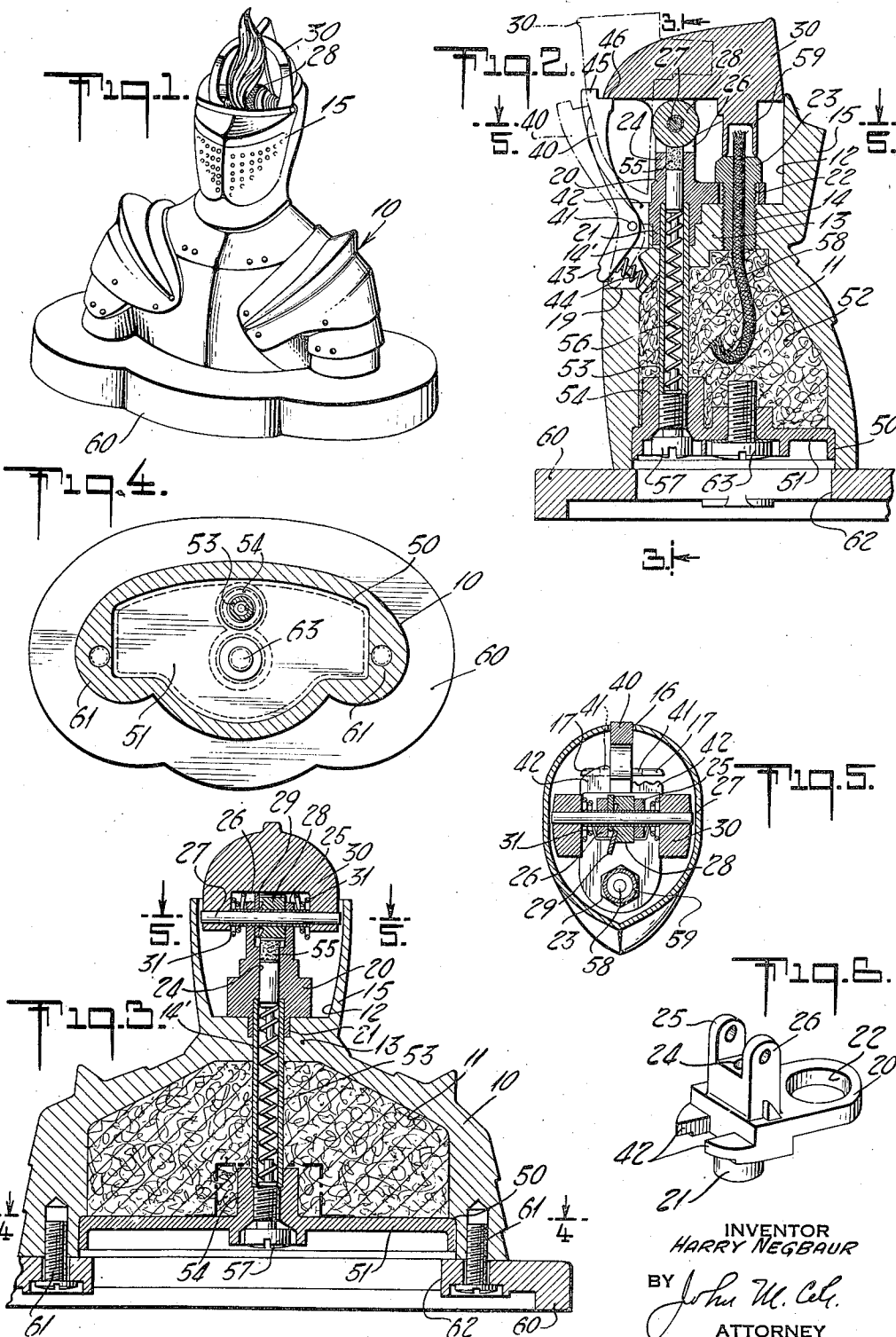
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TABLE LIGHTER

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TABLE LIGHTER

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The present invention relates to table lighters and is more particularly directed toward pyrophoric table lighters made of die cast parts capable of ready assembly and convenient for use on the table.

The present invention contemplates a table lighter in which a single casting provides a downwardly opening chamber or compartment for fuel and an upwardly opening chamber or compartment for the lighter mechanism, and wherein the lighter mechanism and movable parts are carried on a fitting secured in the bottom of the upper chamber or compartment.

The present invention also contemplates an improved latch mechanism whereby the cap or cover may be latched in place when the lighter is not in use and released when the lighter is to be used.

Other and further objects will appear as the description proceeds.

The accompanying drawings show, for purposes of illustrating the present invention, an embodiment in which the invention may take form, it being understood that the drawings are illustrative of the invention rather than limiting the same.

In the accompanying drawings:

Figure 1 is a perspective view of the lighter made up in a form simulating a statuary bust;

Figure 2 is a transverse sectional view through the lighter showing the cap closed in full lines and open in dot and dash lines;

Figure 3 is a sectional view taken on line 3—3 of Figure 2;

Figure 4 is a sectional view taken on line 4—4 of Figure 3;

Figure 5 is a sectional view taken on line 5—5 of Figures 2 and 3; and

Figure 6 is a perspective view of a fitting.

The lighter shown herein employs a body casting 10 shaped to simulate the chest, shoulders, neck and lower head portions of a bust. It has a downwardly opening chamber 11 and an upwardly opening chamber 12 separated by a wall 13 provided with a threaded opening 14 and a stepped opening 14'. The head portion 15 of the casting has a slot 16 at the rear and the wall 13 has upwardly facing grooves 17—17 to the rear of the stepped opening 14'. The casting also has a recess 19 at the lower end of the slot 16.

A fitting 20, also in the form of a die casting, is received in the upper chamber. This fitting has a downwardly extending tubular element 21 adapted to enter the large part of the stepped bore 14', and an opening 22 opposite the threaded

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opening 14. A wick screw, or nut, 23 passes through the hole 22 and is threaded through the opening 14 so as to secure the fitting 20 in place. The fitting 20 has a bore 24 in line with the tubular extension 21 and two upwardly extending bifurcations 25—26 which carry a shaft 27.

The shaft 27 carries a flint wheel 28 and ratchet 29, between the bifurcations, and a cap 30 outside the bifurcations. The cap is urged in counter-clockwise direction, Fig. 2, by a spring indicated at 31. A latch member 40 is received in the slot 16 and is provided with laterally extending pintles 41 received in the grooves 17 and held in place by rearward extensions 42 of the fitting 20. The lower end 43 of the latch is opposite a spring 44 and the upper end 45 is engageable under the rear 46 of the cap 30 when the cap is closed.

The bottom of the casting 10 is recessed as indicated at 50 to receive a cover plate 51, this cover plate being held in position by friction and an adhesive insoluble in lighter fluid. The chamber above this plate is filled with absorbent material 52. A flint tube 53 extends from the boss 54 on the cover plate through the bore 14' and the tubular extension 21. This flint tube 53 receives flint 55 and flint spring 56 and is closed off by a flint screw 57. A wick 58 extends up through the nut 23 and the cap 30 has a snuffer 59 adapted to cover the wick.

The device shown herein is capable of easy manufacture, ready assembly and efficient use. The flint wheel, ratchet mechanism and cap can be preassembled and attached to the body casting after the latch and latch spring have been placed. These parts are all held securely in place by the nut 23. The flint tube may be inserted in the lower compartment or chamber, the absorbent material and wick placed, and then the body of the lighter closed off with the cover member 50. The body is secured to an ornament base 60 by screws 61. This base has an opening 62 to afford access of flint screw 57 and to a screw 63 which closes the fuel opening. The user can pick up the lighter with the thumb against the front of the lighter and the finger behind the lighter and with the forefinger press on the bottom of the latch to release the cap so that it snaps open and actuates the flint wheel so that the fuel is ignited on the wick. The device is then in a position for use for lighting cigars and cigarettes.

Since it is obvious that the invention may be embodied in other forms and constructions within the scope of the claims, I wish it to be understood that the particular form shown is but one

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of these forms, and various modifications and changes being possible, I do not otherwise limit myself in any way with respect thereto.

What is claimed is:

1. A pyrophoric lighter comprising a body having a downwardly opening fuel chamber and an upwardly opening chamber separated by a transverse wall having a threaded opening and a stepped opening with an upwardly facing ledge, a fitting having a tubular projection extending into the upper larger diameter part of the stepped opening and having an upwardly opening flint hole in axial alignment with the tubular projection and a second hole opposite the threaded opening, a tubular nut extending through the second hole and threaded into the threaded opening to secure the fitting in place, a cover for the bottom chamber, a flint tube carried by the cover and extending through the hole in the transverse wall and the tubular projection of the fitting, a flint in the flint tube spring pressed upwardly through the flint hole, a wick extending up through the tubular nut, the fitting having upwardly extending elements laterally of the flint hole and of the plane through the centers of the flint hole and nut, a shaft carried in the latter mentioned elements and extending beyond the same, a flint wheel mounted on the shaft between the said elements and opposite the flint, a cap carried on the extending ends of the shaft, the cap being spring biased to open position and having a ratchet drive connection with the flint wheel, and a body supported, spring pressed latch engageable with the cap when closed for holding the cap closed and manually movable to free the cap for opening by the spring.

2. A lighter having a body with a lower fuel chamber and an upper chamber separated by a wall, a fitting secured to the wall and housed in the upper chamber, the body carrying a flint tube, the fitting and wall each having a hole providing a continuation of the flint tube opening, the fitting having upwardly extending bifurcations, a cap pivoted in the bifurcations, a flint wheel and flint wheel operating mechanism carried by the bifurcations and operably connected with the cap, a spring biasing the cap to open position, the fitting having a rear projection overlying the upper rear part of the body, one of the two latter mentioned parts having aligned grooves opening toward the other to provide pintle bearings below and to the rear of the cap axis, and a spring biased latch member having pivots in the pintle bearings, a lower outwardly projecting end and an upper latching end urged under the cap to lock it in closed position.

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3. In a pyrophoric lighter, a body adapted to house the usual wick, flint wheel and flint wheel operating mechanism, the body having a vertically extending slot and provided near the lower end of the slot with laterally extending bearing grooves, a latch lever recessed in the slot and having pintle bearings in the grooves, an expansion spring between the body and the lower end of the lever, a fitting secured to the body and having a portion overlying the pintle bearings to secure the latch lever in place, and a flint wheel operating cap pivoted to the fitting spring biased toward open position and engageable with the latch lever when closed.

4. A pyrophoric table lighter simulating a statuary bust and having a supporting base, a body portion having hollow chest and shoulder simulating parts forming a downwardly opening fuel chamber, a head part substantially narrower than the chest and shoulder parts, the head part being upwardly opening to form an upper chamber and having a latch receiving slot, and a neck part supporting the head part, a fitting secured to the bottom of the upper chamber and carrying a horizontal, transversely extending shaft slightly below the top of the head part and substantially midway between the front and rear of the head part, a cap secured to the shaft, a spring biasing the cap to open position, a spring pressed latch in the slot and engaging the rear of the cap to hold it in closed position, a wick projecting through the fitting and into the upper chamber near the front thereof, a flint urged upwardly through the fitting to the rear of the wick, and cap operable flint sparking mechanism mounted on the shaft for projecting sparks against the wick when the latch is released.

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