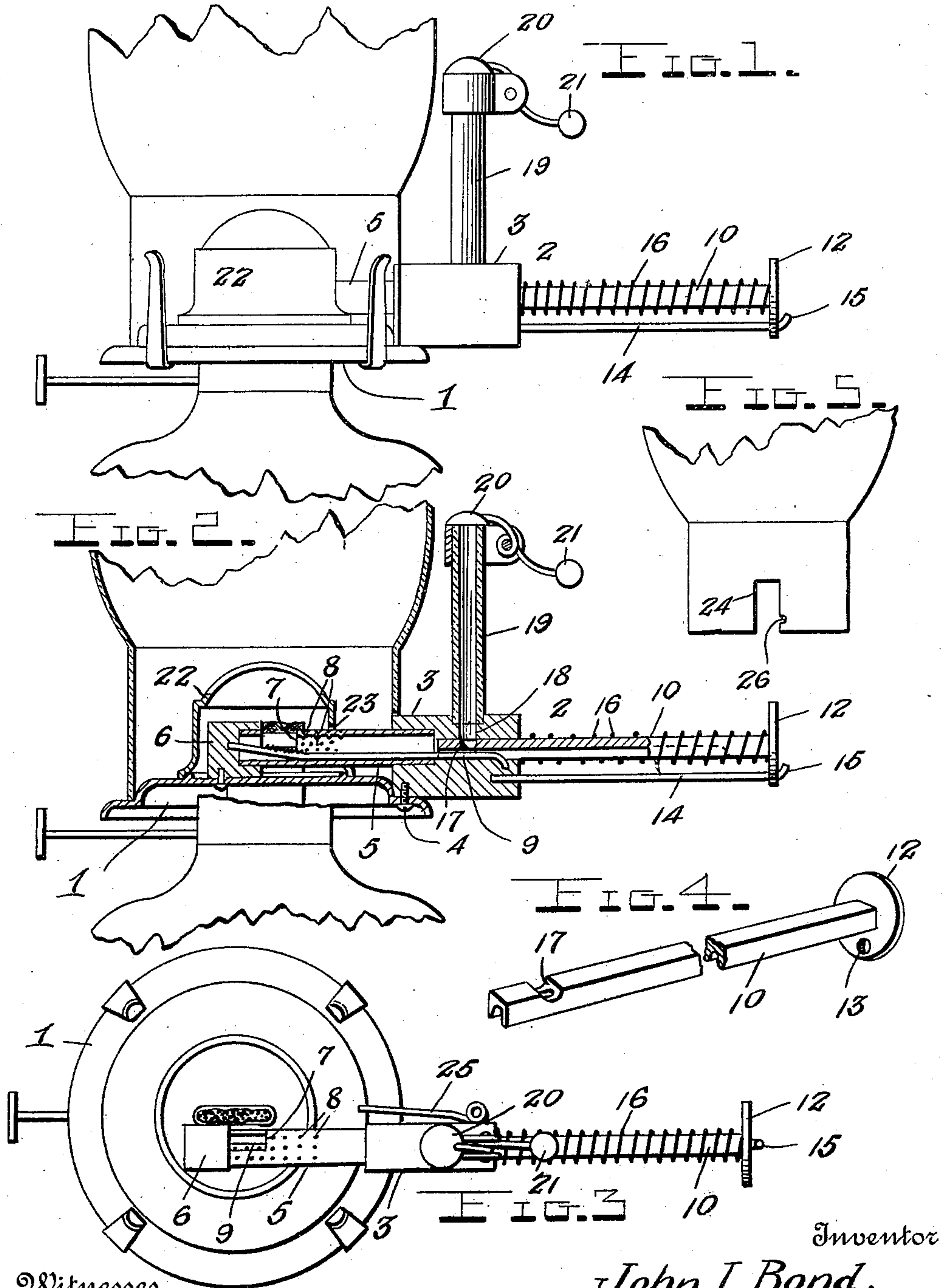


J. I. BOND.
LAMPLIGHTER.
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914,631.

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Witnesses

Chas. L. Griesbauer. By
C. H. Griesbauer.

John I. Bond.

Attorneys

UNITED STATES PATENT OFFICE.

JOHN I. BOND, OF TAYLORS STORE, VIRGINIA.

LAMPLIGHTER.

No. 914,631.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN I. BOND, a citizen of the United States, residing at Taylors Store, in the county of Franklin and State of Virginia, have invented certain new and useful Improvements in Lamplighters; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in lamp lighters.

The object of the invention is to provide a device of this character adapted to be attached to a lamp or lantern burner whereby the same may be quickly and easily lighted without removing the chimney or globe or any other part of the lamp.

With this and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be described and particularly pointed out in the appended claims.

In the accompanying drawing, Figure 1 is a side view of a lamp burner and a portion of the bowl and chimney showing the application of my invention thereto; Fig. 2 is a vertical longitudinal sectional view; Fig. 3 is a top plan view with the burner cap removed; Fig. 4 is a detail view of the match projecting plunger; and Fig. 5 is a detail view of the lower portion of the chimney or globe used in connection with the invention.

Referring more particularly to the drawings, 1 denotes the lamp burner which may be made of the usual or any desired construction and to the same is secured my improved lighting attachment, 2, said attachment comprising a hollow body portion, 3, which is secured to the outer edge of the burner flange by a screw or other suitable fastening means, 4. On the inner end of the body portion, 3, is arranged a match conducting tube, 5, the outer end of which is provided with a head, 6, which is riveted or otherwise secured to the burner as shown.

In the top and side of the tube, 5, adjacent to the wick tube of the burner is formed an aperture, 7, the purpose of which will hereinafter appear. The upper side or top of the tube, 5, is serrated or roughened on its inner side adjacent to the aperture 7 as shown at 8, said serrations or roughened surface forming a match scratcher by means of which the matches or other lighting material

may be ignited. In the tube, 5, and body portion, 3, is arranged a guide rod, 9, the inner end of which is secured in the head, 6, of the tube 5, and said guide rod is roughened near its inner end to also provide an igniting surface which co-acts with the roughened surface on the inner side of the tube, 3, so that the match when forced between said serrated surfaces will not fail to be ignited.

Slidably mounted in the body portion, 3, and tube, 5, is a tubular match projecting plunger, 10, which slides on the guide rod, 9, and is adapted to be reciprocated in the body portion 3 and tube, 5, to force the matches or lighting material through said tube toward the aperture, 7, in the inner end thereof and to ignite said material immediately before it reaches the aperture. On the outer end of the plunger 10 is arranged a knob or head, 12, in the lower side of which is formed an aperture, 13, by means of which said head is slidably engaged with a guide rod, 14, which is secured at its inner end to the end of the body portion, 3, and projects outwardly therefrom as shown. The outer end of the rod, 14, is turned up to form a stop lug, 15, to limit the outward movement of the plunger rod. On the rod, 10, between the head, 12, and the outer end of the body portion, 3, is arranged a coiled spring, 16, the tendency of which is to normally force the plunger rod outwardly to the end of the guide rod, 14.

In the upper side of the tubular plunger, 10, is formed an aperture, 17, which, when the plunger is drawn out of the tube, 5, and body portion, 3, to its greatest extent, will lie immediately beneath or in line with an aperture, 18, formed in the upper side of the body portion, 3, to receive the matches or other form of lighting material which enters said aperture from a magazine, 19, which is preferably in the form of a glass tube, the lower end of which is seated in the aperture, 18, and which projects upwardly above the body portion, 3, as shown. The upper end of the magazine, 19, is preferably closed by a cap or cover, 20, which is hingedly connected thereto and is provided with an operating knob or handle, 21, whereby the same may be opened and the magazine filled with matches or other forms of lighting material. When the parts are arranged as herein shown and described, one match at a time will enter the aperture, 17, in the plunger, 10, when the latter is in a retracted position

so that when said plunger is forced inwardly, said match will be carried through the tube, 5, until the serrated surface of the same and the guide rod 9 are reached, at
 5 which time the friction of the match against said surface will ignite the same, and the blaze therefrom will shoot out of the aperture, 7, in the side of the tube, 5, and into contact with the upper end of the wick, thus
 10 lighting the same. After the wick has thus been lighted and the plunger released, the spring 16 will retract the plunger to again bring the aperture 13 therein beneath the aperture, 18, in the body portion 3 and the
 15 lower end of the magazine in position to receive another match. The inner end of the guide rod, 19, upon which the plunger slides preferably inclines upwardly at its inner end so that the match carried by the inner
 20 end of the plunger will be forced out of the aperture, 17, against the serrated inner surface of the tube, 5. In applying the lamp lighter to the burner, one side of the burner cap, 22, is notched out or recessed as shown
 25 at 23, to allow the tube, 5, to pass into the same to the wick tube.

In the use of the device it is also necessary that the lower edge of one side of the chimney or globe be provided with a notch or recess, 24, to permit said edge to set over the
 30 tube, 5, when engaged with the burner. In order to securely hold the chimney or globe in place on the burner, I preferably provide a fastening spring, 25, which is secured to
 35 one side of the body portion, 3, and has its inner end projecting inwardly in position to engage a notch, 26, formed in one edge of the recess, 24, formed in the lower edge of the chimney.

40 Any suitable material may be employed in connection with the device for lighting the wick, said material being in the form of tablets or pellets which will readily pass from the magazine into the aperture in the
 45 plunger, whereby they are projected through the conducting and igniting tubes to the wick.

From the foregoing description, taken in connection with the accompanying drawing,
 50 the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may
 55 be resorted to without departing from the

principle or sacrificing any of the advantages of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new and desire to secure by Letters- 60 Patent, is:

1. A lamp lighter of the character described, comprising a hollow body portion, a transparent casing secured thereto, a conducting and igniting tube arranged on one 65 end of said body portion, said tube having formed in its inner end a lighting aperture and a serrated match scratching surface, a guide rod in said tube, a tubular match projecting plunger slidably mounted on said 70 guide rod whereby the match is projected through said igniting tube, and ignited before reaching the lighting aperture therein, a retracting spring on the outer end of said plunger, and a guide rod to receive the outer end 75 of the plunger.

2. A lamp lighter of the character described, comprising a body portion, a conducting and igniting tube arranged on said body portion, said tube having in its inner 80 end a lighting opening and a match scratching surface, a guide rod in said tube, said rod having its inner end serrated and inclined upwardly toward the match scratching surface of said tube, a match projecting plunger 85 slidably on said rod, said plunger having formed in its inner end a match receiving aperture, a magazine on said body portion, said magazine having its lower end in communication with the aperture in said plunger, 90 and a cap or cover to close the upper end of the magazine.

3. A lamp lighter of the character described, comprising a body portion, a match conducting and igniting tube connected to 95 said body portion, a guide rod in said tube, a match projecting plunger slidably mounted on said guide rod, a retracting spring on said plunger, a guide rod to slidably support the outer end of the plunger, and a chimney retaining spring on one side of said body portion. 100

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOHN I. BOND.

Witnesses:

ROBT. N. GAINES,
 MARGARET A. GAINES.