

W. D. CARTWRIGHT.
LAMPLIGHTER.

Patented May 25, 1897.



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UNITED STATES PATENT OFFICE.

WILLIAM D. CARTWRIGHT, OF SAVANNAH, GEORGIA, ASSIGNOR TO JOSEPH A. BROWNE, OF POOLER, AND T. J. MELDRIM, OF DARIEN, GEORGIA.

LAMPLIGHTER.

SPECIFICATION forming part of Letters Patent No. 583,325, dated May 25, 1897.

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To all whom it may concern:

Be it known that I, WILLIAM D. CARTWRIGHT, a citizen of the United States, residing at Savannah, in the county of Chatham and State of Georgia, have invented certain new and useful Improvements in Lamp-lighters; and I do hereby 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.

My invention relates to improvements in lamplighters whereby a coal-oil or other lamp may be lighted without the necessity of removing the chimney.

The invention consists in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a longitudinal sectional view of a lamplighter constructed according to my invention, showing the same attached to a lamplighter. Fig. 2 is a plan view of the same. Fig. 3 is a cross-section of the same on the line *x x*, Fig. 2.

In the said drawings the reference-numeral 1 designates a lamp-burner rectangular in form and adapted to be secured to an oil-reservoir 2 of any suitable construction. This burner is formed with a series of vertical wick-passages 3 at right angles to each other, in which are located the wicks 4. This burner, however, forms no part of the present invention and is the subject of a concurrent application for patent filed by me. Secured to the oil-reservoir is a wire-gauze cage 5, annular in form and formed with an annular shoulder 6, upon which the chimney rests. Formed with or secured to said oil-reservoir is a match-receptacle 7, having a diamond-shaped match-receptacle 8, the top of which is inclined and formed with a slot 9, by which the matches are inserted and withdrawn. The top of said receptacle is formed with an inner extension 10 and an outer extension 12, and resting on the top at each side of the slot is a parallel rod 13. These rods are connected together at each end by links 14, the inner ends of which overlap each other, and through which overlapped ends pass pivot-pins, 15 secured to said top. These rods are also connected near each end by means of coiled

springs 16, and near the inner ends the rods are provided with inwardly-projecting pins 17. To the outer ends of said rods are pivoted levers 18, the outer ends of which are pivotally connected with a push-rod 19, which passes through a lug 20, secured to the extension 12, and is provided with a head 21. Confined between said head and lug is a coiled spring 23, encircling the said rod.

The numeral 24 designates a bracket secured to the top of the match-receptacle at one side, to which is pivoted a horizontal lever 25, connected by a link 26 with a lever 27, pivoted to a bracket 27^a, secured to the extension 12. The lever 25 is bent inwardly and then horizontally, so as to project over the slot in the match-receptacle, and is provided with a vertical arm 28, having its lower end beveled to form a point.

Pivoted to the match-receptacle at each side is a bar 29, the outer ends of which engage with coiled springs 30 of greater tension than the springs before referred to and the outer ends of which bear against lugs 31. The inner ends of said bars are inclined inwardly and pass through an opening in the side of the wire cage and are provided with inwardly-extending pins 32.

The numeral 34 designates a spring secured to the bracket 24.

The operation is as follows: The match-receptacle is filled with matches, and when it is desired to light the burner the lever 27 is depressed, which, through the medium of the link 26 and lever 25, will depress the arm 28, causing its point to penetrate a match near the end thereof. The lever 25 is then released, when the spring 34 will return arm 28 to normal position, carrying with it a match. The rod 19 is then pushed inward, and through the medium of the levers 18 and links 14 the rods 13 are controlled and pushed inward, so that the pins 17 will clamp the match and carry it forward to the burners, and the head in its passage will come in contact with the pins, and by friction the match is lighted, which in turn will ignite the wicks. After the wicks have been lighted the outer ends of the bars 29 are pressed together, which will force the inner ends outward and disengage the pins 17 from the match and al-

low it to drop down on the burner and oil-reservoir, where it will be consumed, and the ashes fall down between the burner and oil-reservoir. In the meanwhile the push-rod is released, when the rods 13 will be returned to normal position. The bars 29 are also released, when they will be returned to normal position by the coiled springs at the outer ends thereof.

10 By reason of the diamond shape of the match-receptacle a match will always be in the path of the pointed vertical arm so long as any matches are in said receptacle.

15 Having thus fully described my invention, what I claim is—

1. In a lamplighter, the combination with the burner and oil-reservoir, of the match-receptacle, having an inclined slotted top, the contractible and forwardly-movable rods, the pins secured thereto, and the igniting-pins, substantially as described.

2. In a lamplighter, the combination with the burner and oil-reservoir, of the match-receptacle having an inclined slotted top, the contractible and forwardly-movable rods, the pins secured thereto, the igniting-pins, the pointed arm and the spring-actuated lever and link connected therewith, substantially as described.

30 3. In a lamplighter, the combination with

the burner and oil-reservoir, of the match-receptacle having an inclined slotted top, the parallel rods provided with inwardly-extending pins, the overlapping links pivoted to said rods, the pivot-pins passing through said links, the levers connected with said bars, the push-rod and coiled spring, the spring-actuated lever having a vertical pointed arm, the side bars and igniting-pins, substantially as described.

4. In a lamplighter, the combination with the burner and oil-reservoir, of the match-receptacle having an inclined slotted top, the parallel bars provided with inwardly-extending pins, the overlapping connecting-links, the pivot-pins, the levers connected with said rods, the push-rod and coiled springs, the horizontal spring-actuated lever, the vertical pointed arm connected therewith, the pivoted spring-actuated side bars, having their inner ends inclined inwardly and the igniting-pins secured thereto, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM D. CARTWRIGHT.

Witnesses:

EDWARD C. WEAVER,
ARTHUR ASHLEY.