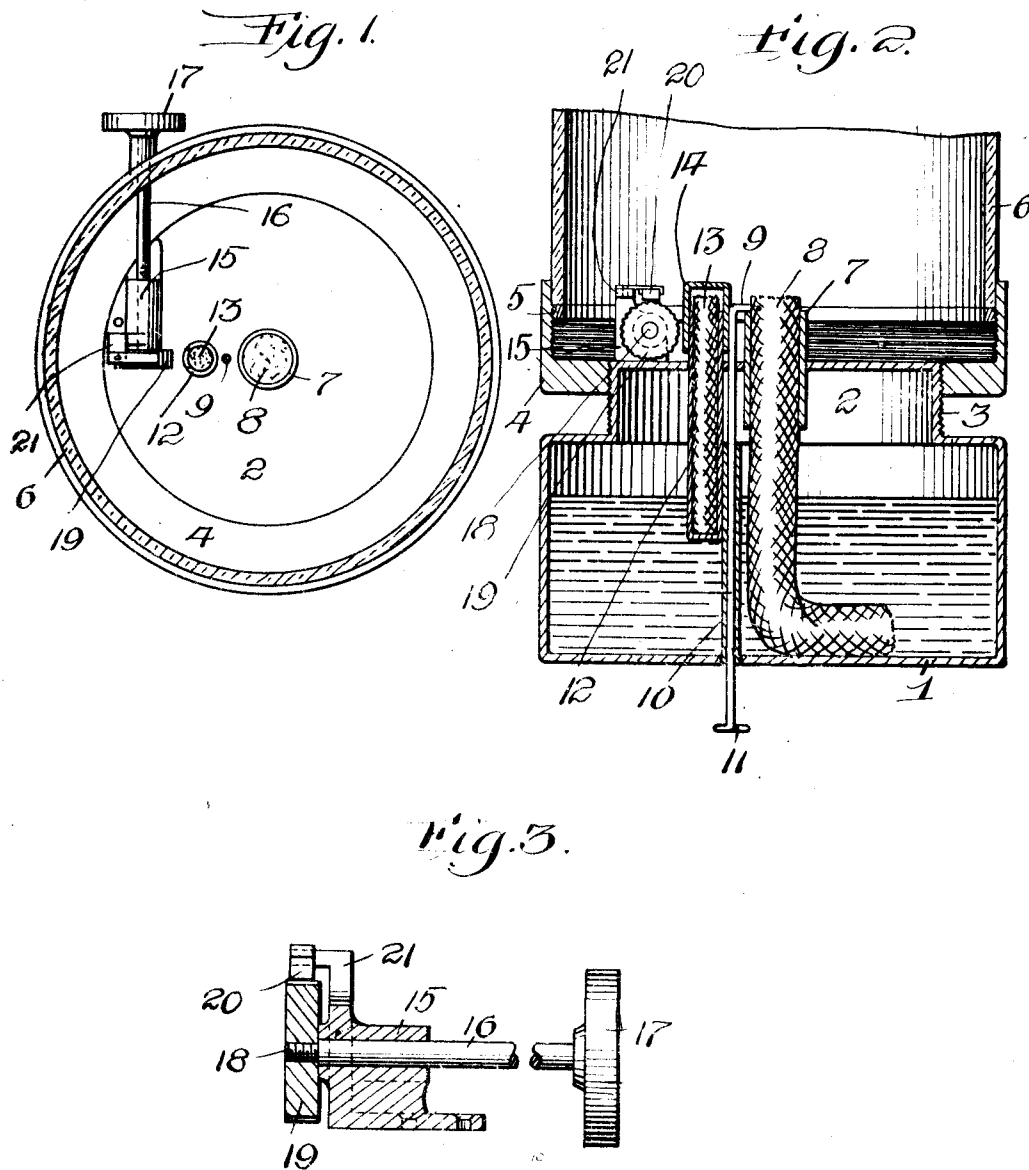


A. L. SCHNEIDER.
LAMPLIGHTING DEVICE.
APPLICATION FILED AUG. 1, 1912.

1,063,936.

Patented June 3, 1913.



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ALBERT L. SCHNEIDER, OF BRADDOCK, PENNSYLVANIA.

LAMPLIGHTING DEVICE.

1,063,936.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALBERT L. SCHNEIDER, a citizen of the United States of America, residing at Braddock, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Lamplighting Devices, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to lamp lighters, and the primary object of my invention is to provide a lighting device that can be advantageously used in connection with miner's lamp for igniting the wick thereof, 15 without resorting to the use of matches or the removal of the chimney or other parts of a lamp.

Another object of this invention is to furnish a miner's lamp with an auxiliary lighting wick that has a snuffer which is removed from the auxiliary wick simultaneously with an adjustment of the main wick of the lamp.

A further object of this invention is to furnish a wick lamp with a spark producing device that can be safely used for lighting the wick of the lamp.

A still further object of the invention is to accomplish the above results by a device that is simple in construction, free from injury for ordinary use and highly efficient for the purposes for which it is intended.

With the above and other objects in view, the invention resides in a novel construction, combination and arrangement of parts to be hereinafter specifically described and then claimed.

Reference will now be had to the drawing, wherein:—

40 Figure 1 is a horizontal sectional view of a lamp provided with the lighting device. Fig. 2 is a vertical sectional view of a portion of the lamp, and Fig. 3 is an enlarged longitudinal sectional view of the lighting device.

45 In the drawing there is illustrated a portion of an ordinary miner's lamp, comprising an oil reservoir 1 having a closed neck 2 that has the outer wall thereof screw threaded, as at 3. Screwed upon the neck 2 50 is an interiorly screw threaded chimney holder 4 provided with an adjustable supporting ring 5 for the lower end of a chimney 6.

Centrally of the neck 2 is a wick tube 7 65 containing the upper end of a wick 8 that

extends into the illuminating oil contained within the reservoir or receptacle 1. Engaging the upper end of the wick 8 is an elevating or adjusting rod 9 that extends through a guide 10 arranged within the reservoir 1 carried by the bottom thereof, said rod extending from the bottom of the reservoir and having a head or handle 11 whereby said rod can be adjusted to raise or lower the wick 8.

65 Soldered or otherwise connected to the upper end of the guide 10 and extending through an opening provided therefor in the neck 2 is an auxiliary wick tube 12 containing an auxiliary wick 13. The wick 70 tube 12 is arranged in parallelism with the wick tube 7 and fitting over the upper open end of the tube 12 is a snuffing cap 14 that is soldered or otherwise connected to the upper end of the adjusting rod 9, so that 75 said snuffing cap will be elevated simultaneously with an elevation of the main wick 8. The lower end of the auxiliary wick tube 12 is closed and this tube is adapted to contain a small quantity of gasolene that is absorbed by the auxiliary wick 13 to permit of 80 said wick being easily ignited.

Riveted or otherwise mounted upon the top of the neck 2, adjacent to the upper end of the auxiliary tube 12, is a bearing 15 for 85 a longitudinal shaft 16, said shaft extending through an opening provided therefor in the chimney holder 4 and having the outer end thereof provided with a head or hand-wheel 17 that permits of said shaft being revolved. 90 The inner end of the shaft 16 is reduced to provide a screw threaded shank 18 and mounted upon said shank is a toothed or roughened strike-wheel 19 that engages a spark producing material 20 preferably consisting of cerium or the alloys of cerium. 95 Said member 20 is carried by a bracket 21 forming part of the bearing 15. The member 20 is arranged so that as it is struck by the roughened periphery of the strike-wheel 100 19 the sparks from the member will be projected in the direction of the auxiliary wick 13 and ignite said wick, when the snuffing cap 14 is elevated. With the upper end of the auxiliary wick 13 ignited, the upper 105 end of the main wick 8 is lighted from said auxiliary wick and continues to burn during the use of the lamp. The flame of the auxiliary wick 13 can be extinguished independent of the flame of the main wick 8, 110

as the auxiliary gasoline wick is simply used as a medium for lighting the main wick of the lamp.

It is thought that the operation and utility of the lighting device will be apparent without further description, and while in the drawing there is illustrated a preferred embodiment of the invention, it is to be understood that the structural elements are susceptible to such changes as fall within the scope of the appended claims.

What I claim is:—

1. In a lamp lighting device, the combination with a lamp having an oil reservoir, a main wick, and an adjustable rod for moving said wick, of an auxiliary wick tube supported within said reservoir, an auxiliary wick arranged within said tube, a snuffing cap carried by said rod and adapted to fit over said tube, a revoluble roughened wheel arranged in proximity to said auxiliary wick, a spark producing material engaged by said wheel for producing sparks at the upper end of said auxiliary wick, and means including a revoluble shaft for imparting a rotary movement to said wheel.

2. In a lamp lighting device, the combination with a lamp having an oil reservoir, a chimney holder detachably supported thereby, and a main wick extending into said oil reservoir, of an auxiliary wick located ad-

jacent to said main wick, a bearing carried by the top of said reservoir, a shaft journaled in said bearing and extending out of said chimney holder, a roughened wheel mounted upon said shaft, a spark producing material supported by said bearing and engaged by said wheel for producing sparks at the upper end of said auxiliary wick, and means for simultaneously adjusting said main wick and snuffing said auxiliary wick.

3. In a lamp lighting device, the combination with a lamp having an oil reservoir, a chimney holder detachably connected thereto, a main wick extending into said oil reservoir, and a rod in connection with said main wick for adjusting said wick, of an auxiliary wick located adjacent to said main wick, a snuffing cap carried by said rod and adapted to extend over said auxiliary wick, a revoluble wheel supported adjacent to said auxiliary wick, a spark producing material engaged by said wheel for producing sparks at the upper end of said auxiliary wick, and means extending out of said chimney holder to facilitate revolving said wheel.

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

ALBERT L. SCHNEIDER.

Witnesses:

F. W. BODE,
MAX H. SROLOVITZ.