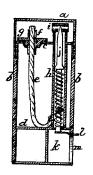
1. Sewant, Fercussion Match.

NO. 113,937.

Patented Apr. 18, 1811.

Fig, 1.



Fig, 2.



Fig, 3,



Witnesses,

Judicey & Guith, H. a. Daniels

UNITED STATES PATENT OFFICE.

WILLIAM SERVANT, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO HIMSELF AND JOSIAH A. WHITMAN, OF SAME PLACE.

IMPROVEMENT IN PERCUSSION-MATCHES.

Specification forming part of Letters Patent No. 113,937, dated April 18, 1871.

To all whom it may concern:

Be it known that I, WILLIAM SERVANT, of Providence, in the county of Providence and State of Rhode Island, have invented a new and Improved Percussion-Match or Pocket-Lamp; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing, which forms a portion of this specification,

Figure 1 is a longitudinal section, Fig. 2 a perspective view, and Fig. 3 a side elevation,

of said invention.

The accompanying drawing represents a suitable and convenient size and shape for my improved percussion-match or pocket-lamp, and any suitable material may be employed in the manufacture of the casing and the internal portions of said invention.

The cover a should be so made as to fit closely upon the body b of the casing of said percussion-match or pocket-lamp, and I usually give an oval shape to said casing, for the purpose of enabling it to be conveniently carried

The space between the transverse partition d and the top c of the casing b forms the oilchamber, for the reception of any suitable burn-

ing-fluid for the match-wick e.

The wick e passes out through the tube fin the screw-cap g, which is screwed into and closes the aperture in the top c of the cas-

The match-wick e is lighted by the explosion of a percussion-wafer within the hollow head i of the tube h, which tube descends through the head c of oil-chamber and rests upon the transverse partition d, which forms the bottom of said chamber.

A percussion-rod, j, is placed within the tube h, as shown in Fig. 1.

The lower half portion, or thereabout, of the said percussion-rod is of smaller diameter than the upper portion thereof, and is embraced by a spiral spring, p, which rests upon the partition d, which spring must be of sufficient stiffness to throw the said rod upward from its lowest position with sufficient force to explode, with its pointed upper end, a percus-

sion-wafer placed within the hollow head i of the tube h.

The lower end of the percussion-rod j passes down through an aperture in the transverse partition d into the compartment k, and is there connected to the handle l, which passes outwardly through the vertical slit m in the side casing, b, as shown in Fig. 1.

A fluid-tight joint is formed at the point where the tube h passes through the top e of the casing b, and also at the point where the said tube rests upon the transverse partition d.

Having been thus constructed, my said percussion - match or pocket - lamp is ready for sale, and the following is the method of using said invention: The oil-chamber must be supplied with the proper quality of burning-oil or kerosene, and the user must supply himself with percussion-wafers of such a size and shape that they can be successively inserted within the opening in the head i of the tube When the user desires to light the matchwick he removes the cover a from the casing b, and draws down the percussion-rod j to the bottom of the compartment k, and turns its handle l under the shoulder n at the base of one side of the slit-opening m to said compartment. Then he places a percussion-wafer within the horizontal opening in the head i of the tube h, and turns the handle l of the percussion-rod j from its holding-notch n, at which moment the recoil of the actuating-spring p on the said rod j throws up the rod with a sufficient degree of force to explode the aforesaid wafer, and the flame therefrom will invariably light the match-wick e, provided the oil-chamber be supplied with the requisite quantity and quality of burning-fluid.

The upper end of the percussion-rod j is brought to a sharp point, for the purpose of diminishing the loudness of the report produced by the explosion of the percussion-wafer.

I claim as my invention—

1. My improved percussion-match or pocketlamp, produced by the combination of the match-wick e, the spring-actuated percussionrod j, and the hollow-headed tube h i with each other and with the respective compartments

within the pocket-casing a b, substantially as and for the purpose herein set forth.

2. The sharpened actuating end of the percussion-rod j, as an improvement upon a bluntheaded percussion rod or hammer, for the purpose herein set forth.

In testimony that the aforegoing is a full and clear specification of my improved percussion-match or pocket-lamp I do hereby subscribe my name this 1st day of March, 1871.

Witnesses:

O. C. Quirk,
J. Cushman.

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