

UNITED STATES PATENT OFFICE.

EWALD SCHMIDT, OF MAHLSDORF, NEAR BERLIN, GERMANY, ASSIGNOR TO THE FIRM
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LAMP.

940,073.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EWALD SCHMIDT, a subject of the German Emperor, and residing at Mahlsdorf, near Berlin, Germany, have invented certain new and useful Improvements in Lamps, of which the following is a specification.

The subject-matter of the present invention is an improved incandescent lamp for liquid combustibles.

In order that the invention may be clearly understood reference is made to the accompanying drawing in which one embodiment is represented in Figure 1 in vertical sectional elevation by way of example. Fig. 2 is a detail. Fig. 3 is a vertical section of the burner-head on a larger scale.

Referring to the drawing, in the improved incandescent lamp for liquid combustibles, particularly for petroleum, a vessel 1 for a combustible is arranged in the upper part of the lamp attached to the outer cylinder 2. The combustible passes from the vessel 1, provided with a filling opening 3, through a supply pipe 4 by means of the tap 5 to a needle-valve 6; by adjusting the latter the combustible is allowed to flow in desired quantities to the gasifier 7. A tube 9 passing in the inner cylinder 8 above the highest level of the combustible is connected to the gasifier 7, and is bent downwardly, as clearly shown, the part 10 being bent near its bottom end and connected by the portion 11 to a nozzle 12.

In order to be able to put the gasifier 7 and the tubes 9, 10, 11 in position the lower part of the cylinder 8 is made of two parts 13 and 14; the latter are assembled after the gasifier 7 and the tube 9, 10, 11 with the nozzle 12 have been put in position.

Opposite the nozzle 12 there is arranged the mouth of the mixing pipe 15 which has at its lowest part a receptacle 16 for collecting condensed combustible. Into this receptacle 16 there projects a metal tube or metal rod 17 which conducts the heat emitted by the flame into the receptacle and gasifies the combustible liquid collected therein.

The mixing tube 15 ends in an upwardly directed portion 18 carrying the head of the burner. This burner-head consists of the two parts 19 and 20 which are connected with one another in such a manner that they

can be easily detached, for example by means of screw-threads or a bayonet-joint.

A diaphragm of gauze or a sieve 22 is placed on the shoulder 21 of the part 19 and a sieve 24 on the part 23. The latter is a fitting which rests on the partition of gauze 22 and is held in position by the part 20, as clearly shown in Fig. 3. Instead of two sie

conducting rod arranged adjacent to said burner-head and extending into said receptacle.

2. In a lamp, a mixing tube having two
5 vertical arms, and a curved bottom portion,
a burner on one arm, a receptacle attached to
and communicating with the bottom portion
of said tube, and a rod extending from in-

side said receptacle through said tube to
near said burner.

In testimony whereof I affix my signature
in the presence of two witnesses. 12

EWALD SCHMIDT.

Witnesses:

WOLDEMAR HAUPT,
HENRY HASPER.