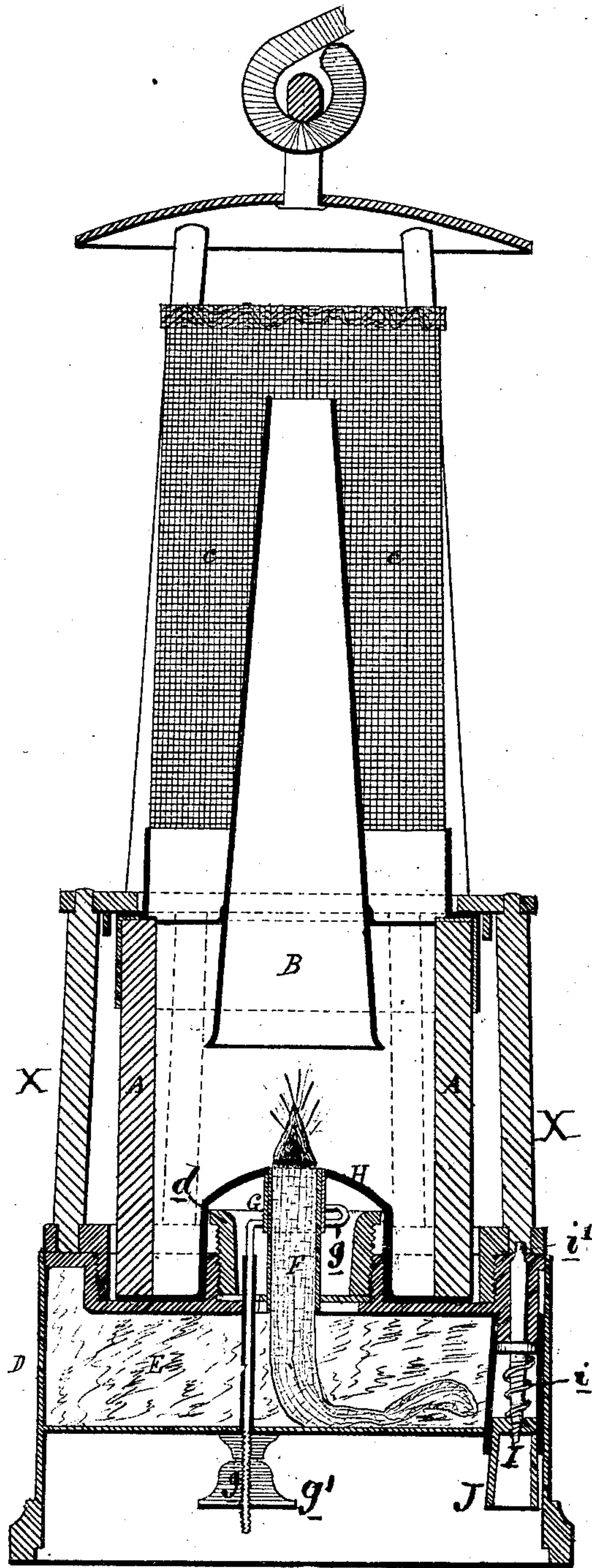


A. SOUHEUR.  
LAMP.

No. 176,085.

Patented April 11, 1876.



Witnesses  
Ellwood T. Detz.  
Harry Smith

Arnold Souheur  
by his Attorneys  
Howson and Son

# UNITED STATES PATENT OFFICE.

ARNOLD SOUHEUR, OF SERAING, BELGIUM.

## IMPROVEMENT IN LAMPS.

Specification forming part of Letters Patent No. **176,085**, dated April 11, 1876 ; application filed January 15, 1876.

*all whom it may concern :*

Be it known that I, ARNOLD SOUHEUR, of Seraing, Belgium, engineer, have invented certain Improvements in Lamps, of which the following is a specification :

My invention relates more especially to that class of lamps which are employed in mines and similar places, and which are usually termed safety-lamps ; and the object of my invention is to so construct a lamp of this class as to prevent the access of the flame to the oil-reservoir, prevent leakage of the oil, to regulate the flame, and to render the fastening of the reservoir to the frame more secure.

This object I attain in the manner which I will now proceed to describe, reference being had to the vertical sectional view in accompanying drawing, in which X represents the usual frame of the lamp ; A, the glass ; B, the conical chimney, and C, the surrounding wire gauze. D is the oil-reservoir, closed at the top by the ring *d* and wick-tube F, and over this ring and wick-tube fits snugly a cap, H, of polished metal. Surrounding the wick-tube F is a sleeve, G, to which is attached the rod *g*, passing through a tube in the oil-reservoir and controlled by a nut, *g'*.

In a projection, J, at one side of the oil-reservoir D, is arranged to slide a pin, I, under the control of a spring, *i*, which tends to force the upper portion of this pin into an opening, *i'*, in the frame X, when the latter is screwed on the reservoir. The oil-reservoir D

I fill with some absorbent material, through which the wick passes and which absorbs the oil.

The advantages of a lamp constructed in the above manner are, first, the polished-metal cap H serves not only to prevent access of the flame to the oil-reservoir, but also serves as a reflector ; secondly, the spongy material in the reservoir absorbing the oil prevents the accidental leakage of the same, often caused by the motion of the lamp ; thirdly, the height of the flame can be regulated by the nut *g'* on the outside of the reservoir through the medium of the sleeve G ; and, fourthly, the spring-pin I renders the fastening of the frame to the reservoir more secure.

I claim as my invention—

1. The combination of the detachable wick-tube F, with the reservoir D, screw-ring *d*, and the cap or cover H, adapted to the said wick-tube and reservoir, as and for the purpose set forth.

2. The combination of the wick-tube F and its sleeve G with the rod *g* attached thereto, passing to the outside of the reservoir, and having a regulating-nut, *g'*, adapted to its threaded end, all as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ARNOLD SOUHEUR.

Witnesses:

V. RIEBNYCK,  
J. C. CONINCK.