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Complete Specification Left, 2nd Aug., 1905—Accepted, 28th Sept., 1905

PROVISIONAL SPECIFICATION.

Improvements in Blow Lamps or Burning Off Torches for the use of Painters, Plumbers and the like.

I ALFRED HENRY ALLEN of 3, Melton Road, Kings Heath, Birmingham, in the County of Worcester, Painter, do hereby declare the nature of this invention to be as follows:—

5 This invention relates to improvements in blow lamps or burning off torches for the use of painters, plumbers and the like, and which has for its object a lamp in which the flame can readily be adjusted, is regular in action and free from liability to blow out.

10 In carrying this invention into effect the body or reservoir is provided with a handle, and a central tube for holding the wick and allowing the pressure to gradually escape into a channel at the top of tube, which channel is provided with an aperture in connection with which a screw peg or rod having an exterior head is so arranged as to enable the pressure of the supply of spirit to the nozzle to be regulated or shut off. An air pump is mounted upon and connected with the top of the reservoir by a channel and an internal valve formed of asbestos
15 or other suitable material for the purpose of preventing the return of the air to the exterior.

The nozzle which is preferably screwed onto the upper part of central tube is provided with an internal perforated disc or button through which the pressure escapes during the working of the lamp, a curved tray being arranged upon the
20 underside so as to direct the waste spirit which leaves the nozzle into the outer cup which surrounds the central wick tube for the purpose of warming the working part of the lamp and for starting.

A separate screw down cap is provided at the top of reservoir for filling the lamp, while a screw cap for emptying is fitted in the bottom of the lamp, which
25 is made concave for the purpose of accomodating the projection of the screw cap and at the same time allow the lamp to stand evenly.

Dated this 2nd day of November 1904.

30 LEWIS W. GOOLD,
Patent Agent by Examination,
Agent for Applicant,
5 Corporation Street, Birmingham.

COMPLETE SPECIFICATION.

Improvements in Blow Lamps or Burning Off Torches for the use of Painters, Plumbers and the like.

35 I, ALFRED HENRY ALLEN, of 3 Melton Road, Kings Heath, Birmingham, in the County of Worcester, Painter, do hereby declare the nature of this inven-

[Price 8d.]



Improvements in Blow Lamps or Burning Off Torches for the use of Painters, &c.

tion and in what manner the same is to be performed to be particularly described and ascertained in and by the following statement:—

This invention relates to improvements in the construction & arrangement of blow lamps or burning off torches for the use of painters, plumbers and the like, and refers particularly to that class of lamp in which benzoline or other such spirit passes through a wick and is vapourized by the heat of the lamp, and which has for its object a simple arrangement of parts for starting and assisting in the supply of the spirit to the the flame of such lamps without the necessity of carrying a separate supply of spirit or of applying independent heat to the body of the lamp while at the same time the flame of lamps made in accordance with these improvements can be more easily regulated and are less likely to become extinguished either by wind or coldness of temperature and when extinguished from the extremity of such causes can be immediately restarted without the use of a separate supply of spirit or independent heat.

In order that this invention may be clearly understood and more easily carried into practice I have appended hereunto a sheet of drawings upon which I have illustrated the nature of my said improvements.

Figure 1 is a side elevation of the lamp.

Figure 2 is a part sectional side elevation of the lamp.

As usual in this class of lamps the body or reservoir A is provided with a handle a^1 and a central tube a^2 for holding the wick and allowing the pressure to gradually escape into a channel a^3 at the top of tube which channel is provided with an aperture a^4 in connection with which a screw peg or rod B having an exterior head b^1 is so arranged as to enable the pressure of the supply of spirit C to the nozzle E to be regulated or shut off.

In carrying this invention into effect an air pump F is mounted upon and connected with the top a^5 of the reservoir by a channel a^6 and an internal valve f^1 formed of asbestos or other suitable material for the purpose of preventing the return of the air to the exterior, and whereby an accumulation of pressure can be produced in the top part of the lamp so that upon the opening of the main valve P the pressure of air contained in the top of the lamp forces a portion of the spirit under pressure up the central tube a^2 through the wick and in vapourized form through the perforated disc sprayer or button b^1 into the nozzle or burner E thereby providing a continuing and sufficient supply of spirit to admit of the direct ignition at the burner, after which the flame is maintained by the heating of the body of the lamp in the manner usual with this class of lamp.

It will also be readily understood that in case of the flame becoming low which may be brought about by the intense cold or exceptional gusts of wind it is only necessary to apply pressure to the interior of the body of the lamp through the medium of the pump F to force more spirit through the wick and thereby increase the flame, thus producing the increase of heat required to continue the action of the lamp in a regular manner.

From experience in the use of a lamp having the hereinbefore described pump attachment it has been found that the old form of cup or outer tray such as illustrated by a^5 Figure 2 is not required for starting the lamp as it has been found that the pressure of the pump is sufficient to force the required quantity of air into the top of the lamp so as to force a continued spray of spirit through the nozzle sufficient to admit of direct ignition without recourse to any exterior accumulation of spirit which accumulation has been found to be dangerous especially in the case of workmen starting a lamp when mounted upon a ladder.

The usual separate screw down cap a^8 is provided at the top of reservoir for filling the lamp, while a screw cap a^9 for emptying is fitted in the bottom of the lamp which is made concave for the purpose of accomodating the projecting of the screw cap, and at the same time allows the lamp to stand evenly.

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Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

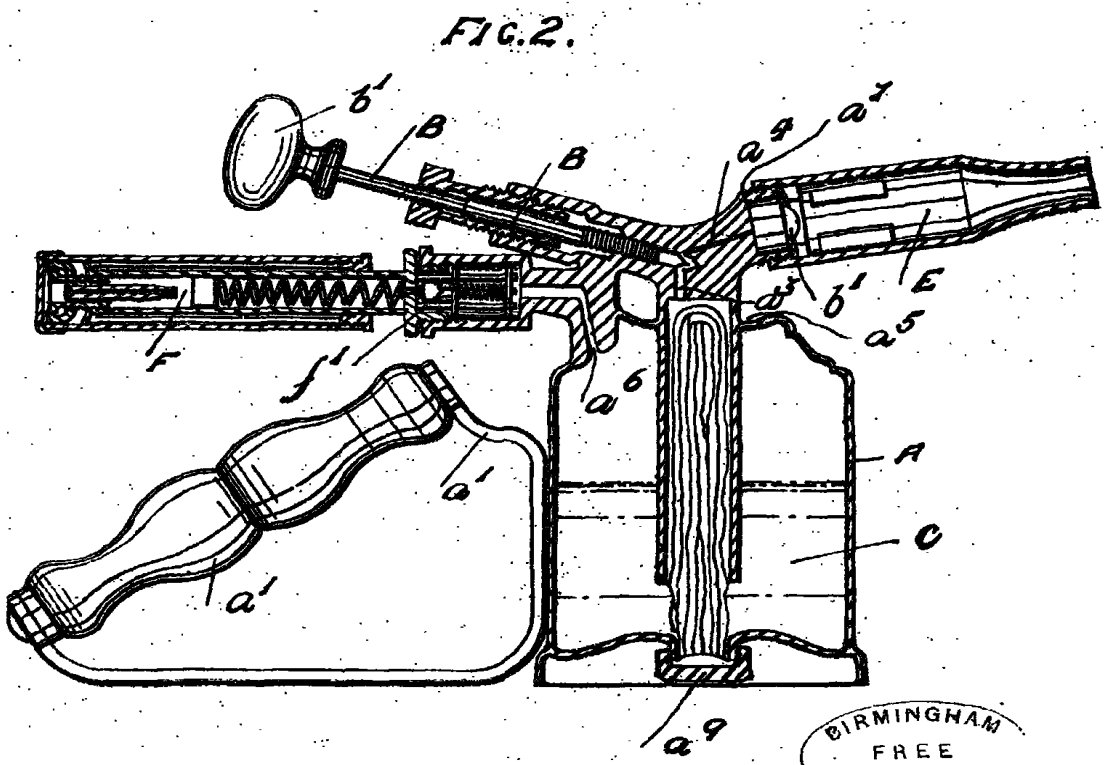
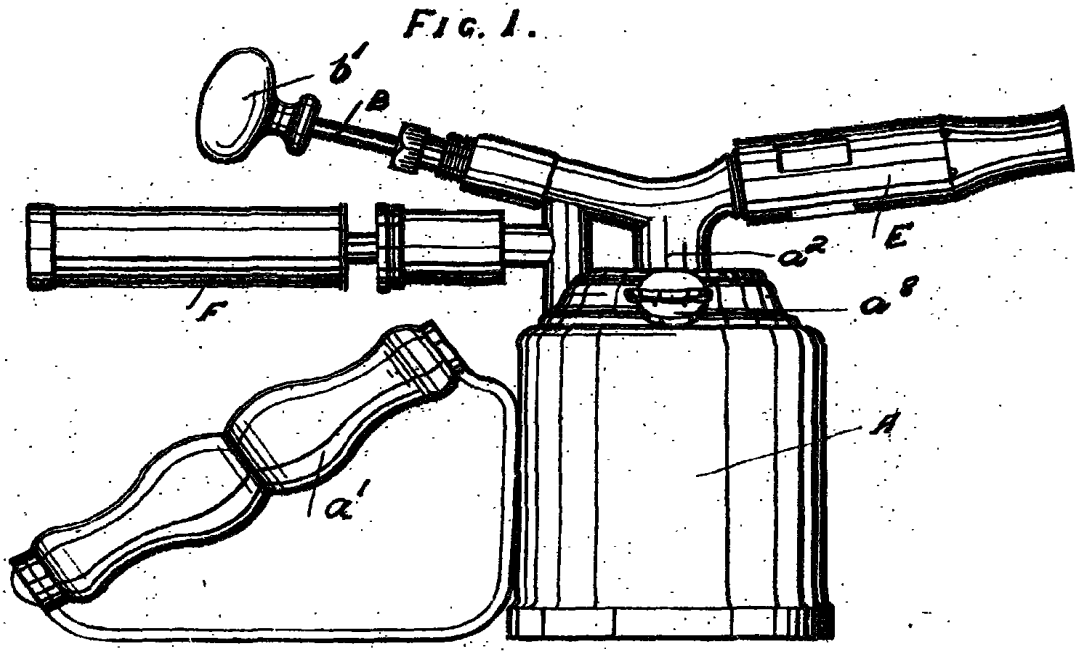
5 The improvements in blow lamps or burning off torches characterized by the general arrangement of the pump, wick, tube, regulating valve and burner whereby a sufficient supply of spirit can be forced through the burner when starting to admit of ignition at the nozzle, substantially as and for the purpose herein set forth and illustrated.

Dated this 1st day of August 1905.

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5 Corporation Street, Birmingham.

[This Drawing is a reproduction of the Original on a reduced scale.]



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