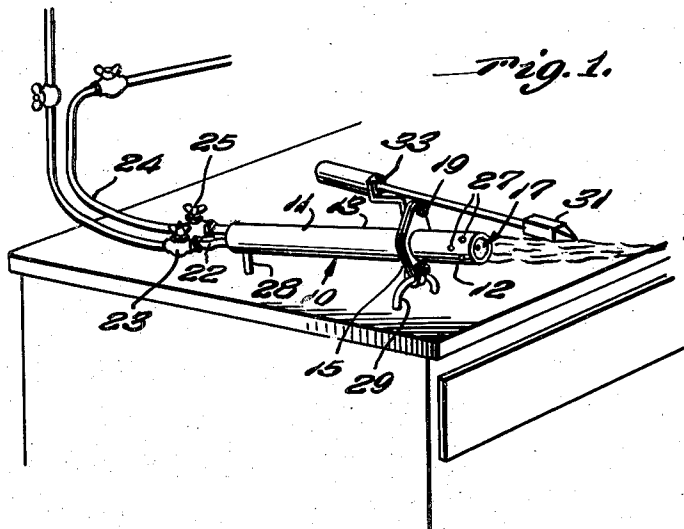
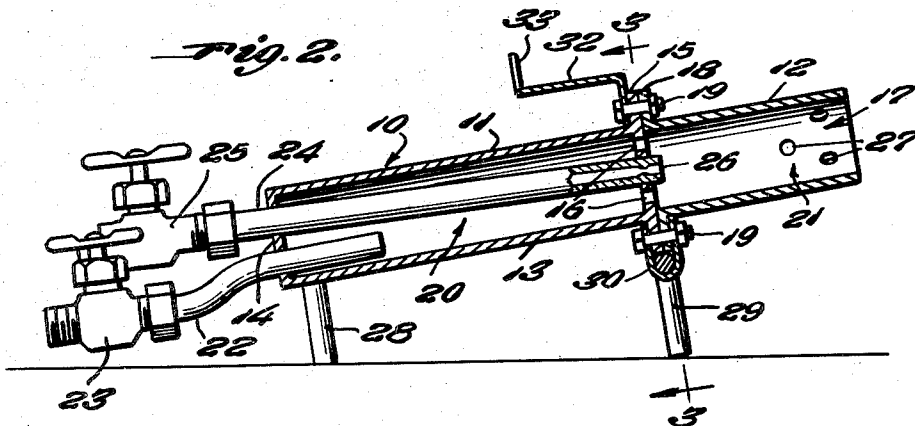
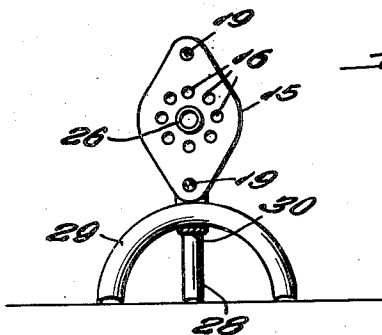


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B. C. LUZADER, SR
BLOWPIPE FOR HEATING TOOLS
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BLOWPIPE FOR HEATING TOOLS

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2 Claims. (Cl. 126—229)

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This invention relates to new and useful improvements and structural refinements in blow pipes, and the principal object of the invention is to provide a device of the character herein described, such as may be conveniently and effectively employed for heating soldering irons, preheating furnaces and for other similar uses.

A further object of the invention is to provide a blow pipe which is simple in construction, highly efficient in operation, and which will not easily become damaged.

Another object of the invention is to provide a blow pipe which embodies in its construction means for supporting the soldering iron with which it is used.

An additional object of the invention is to provide a blow pipe which will readily lend itself to economical manufacture.

With the above more important objects in view, and such other objects as may become apparent as this specification proceeds, the invention consists essentially of the arrangement and construction of parts as illustrated in the accompanying drawings, in which:

Figure 1 is a perspective view showing the invention in use.

Figure 2 is a longitudinal cross sectional view of the invention per se, and

Figure 3 is a cross sectional view, taken substantially in the plane of the line 3—3 in Figure 2.

Like characters of reference are used to designate like parts in the specification and throughout the several views.

Referring now to the accompanying drawings in detail, the invention consists of a blow pipe designated generally by the reference character 10, the same embodying in its construction two longitudinally aligned sections of pipe 11 and 12 constituting a tubular body designated by the reference character 13. The section 11 is closed at one end thereof as at 14, while its remaining end is provided with a baffle plate 15 perforated as at 16.

One end of the section 12 is open as at 17, while its remaining end is formed with a flange 18, whereby the section 12 is secured to the plate 15 of the section 11 by means of suitable bolts and nuts 19.

The interior of the section 11 forms an air chamber 20, while the interior of the section 12 forms a combustion chamber 21. An air supply line 22, provided with a control valve 23 extends through the closed end 14 of the section 11 and communicates with the air chamber 20, as will be clearly apparent from the accompanying draw-

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ings. A gas line 24, equipped with a control valve 25, also enters the chamber 20 through the closed end 14 and extends longitudinally therein, the free end portion of the tube 24 constituting what may be referred to as a Venturi tube 26. It will be noted that this Venturi tube extends through the baffle plate 15 into the combustion chamber 21, as is best shown in Figure 2.

The lateral wall of the pipe section 12 is also provided with a plurality of auxiliary air openings 27. The body 13 is supported in an inclined position, that is, with the chamber 21 elevated with respect to the chamber 20, by means of suitable brackets 28 and 29, the former assuming the form of a simple shank secured adjacent the closed end of the section 11, while the latter is arcuated as shown in Figure 3 and is secured by means of a substantially U-shaped clamp 30 to the body 13. In effect, the clamp 30 spans or straddles the baffle plate 15 and the flange 18, and is rigidly secured thereto by means of one of the aforementioned bolts 19.

Means are also provided for supporting a soldering iron 31 at the open end 17, that is, at the mouth of the chamber 21, said means consisting of a substantially Z-shaped bracket, or a reverse angle bracket 32. One of the free arms of this bracket is secured to another of the bolts 19 as will be clearly apparent from the accompanying drawings, while the remaining free arm of the bracket is forked as at 33 to receive the shank or shaft of the soldering iron.

When the invention is placed in use, the air pressure in the chamber 20 will be relieved through the openings or passages 16, thereby facilitating efficient combustion of the gas from the tube 26 in the chamber 21.

It is believed that the advantages and use of the invention will be clearly understood from the foregoing disclosure and accordingly, further description thereof at this point is considered unnecessary.

While in the foregoing there has been shown and described the preferred embodiment of this invention it is to be understood that minor changes in the details of construction, combination and arrangement of parts may be resorted to without departing from the spirit and scope of the invention as claimed.

What I claim as my invention is:

1. A blow pipe comprising two longitudinally aligned sections separably connected together and constituting a tubular body, a perforated baffle plate interposed between the adjacent ends of said sections, one of said sections being closed

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at the free end thereof and forming an air chamber, the remaining section being open and forming a combustion chamber, an air supply tube communicating with said air chamber, a tube having a venturi positioned axially in said body and extending through said plate into said combustion chamber, said Venturi tube adapted to be connected to a source of gas, a control valve provided on each of said tubes, the lateral wall of said combustion chamber being formed with a plurality of openings, brackets for supporting said body, and a further bracket attached to said baffle plate and adapted to support a soldering iron at the mouth of said combustion chamber.

2. A blow pipe comprising two longitudinally aligned sections separably connected together and constituting a tubular body, a perforated baffle plate interposed between the adjacent ends of said sections, one of said sections being closed at the free end thereof and forming an air chamber, the remaining section being open and forming a combustion chamber, an air supply tube communicating with said air chamber, a gas sup-

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ply tube positioned axially in said body and extending through said plate into said combustion chamber, said gas supply tube adapted to be connected to a source of gas, a control valve provided on each of said tubes, a lateral wall of said combustion chamber being formed with a plurality of openings, brackets for supporting said body, and a further bracket attached to said baffle plate and adapted to support a soldering iron at the mouth of said combustion chamber.

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