A. C. KEPHART.

ATTACHMENT FOR BLACKSMITH'S BLOWERS.

APPLICATION FILED MAY 10, 1913.

1,131,385.

Patented Mar. 9, 1915

Fig. 1.

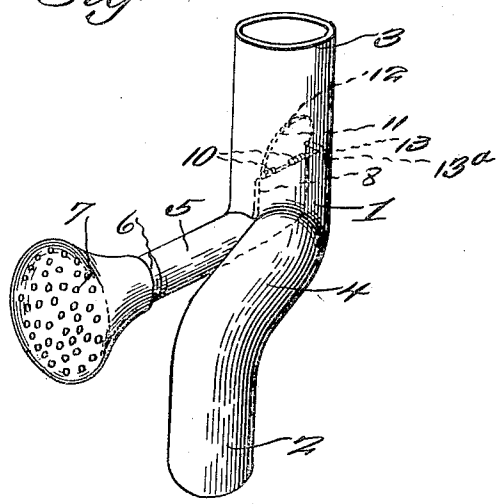


Fig. 2.

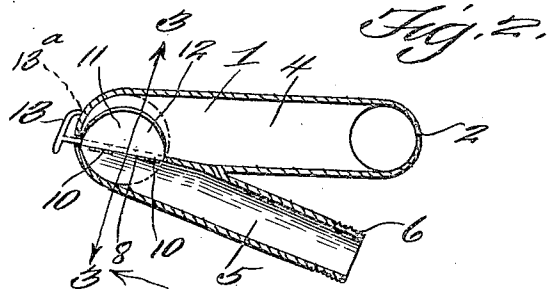
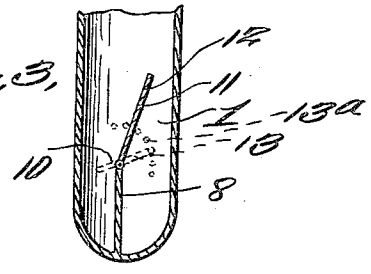


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

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ATTACHMENT FOR BLACKSMITHS' BLOWERS.

1,131,385. Specification of Letters Patent. Patented Mar. 9, 1915.

Application filed May 10, 1913. Serial No. 766,791.

To all whom it may concern:

Be it known that I, ANDREW C. KEPHART, a citizen of the United States, residing at Charlotte, in the county of Dickson and State of Tennessee, have invented a new and useful Attachment for Blacksmiths' Blowers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a blacksmith's blower and particularly to a new and useful attachment therefor.

An object of the invention is the provision of an attachment comprising an elbow construction of connection between the glower and the furnace or casing for the fire having a return pipe or tube provided with a spray nozzle whereby a portion of the air blast through the connection may be distributed in the face of the blacksmith, while operating the high pressure blower, in order to keep him cool while at the forge.

A feature of the invention is to so arrange the return pipe relative to the connection or elbow construction as to deflect a portion of the air blast.

Another feature is the provision of a deflector plate arranged in the elbow or connection for facilitating the deflection of the air blast.

In practical fields the details of construction may necessitate alterations, to which the patentee is entitled, provided the alterations fall within the scope of what is claimed.

The invention comprises further features and combination of parts, as hereinafter set forth, shown in the drawings and claimed.

In the drawings: Figure 1 is a view of the improved elbow construction or connection constructed in accordance with the invention. Fig. 2 is a sectional plan view. Fig. 3 is a vertical sectional view.

Referring to the drawings more particularly, 1 designates an elbow construction, the end 2 of which connects to the furnace or forge, while the end 3 is adapted to connect to the usual form of high pressure blower or like means (not shown). Merging or blending into the portion 4 of the elbow construction forming an integral part thereof, and extending at an acute angle as shown clearly in Fig. 2 is a return pipe or tube 5, to the end 6 of which a spray nozzle 7 is threaded, whereby the air blast may be distributed. Where the portion 4 of the elbow and the return pipe 5 merge or blend together a partition 8 is formed, which acts to deflect a portion of the air blast into and through the return pipe 5. Hinged at 10 to the partition 8 is an extension partition 11 which constitutes a deflector plate 12, which may be adjusted for regulating the deflection of a portion of the air blast through the return pipe, by means of the member 13. This member 13 is in the form of a spring arm designed to engage any one of the series of depressions 13^a of the elbow construction, for holding the extension partition in adjusted positions. The series of depressions are arranged concentric with the hinge connections, as shown. In this manner not only the air blast for cooling the blacksmith is regulated, but also the air blast to the forge or furnace. From the foregoing it will be noted that there has been devised a simple and efficient attachment adapted for location between the forge and the blower, for deflecting a portion of the air blast to keep the blacksmith cool.

The invention having been set forth, what is claimed as new and useful is:

In combination, a flue adapted for connections between a blower and a forge furnace, said flue having a compound curved elbow, an air pipe or tube extending laterally of the flue and disposed at an acute angle to the compound curved elbow, said laterally extending tube forming an integral part of one of the arms of the elbow and merging into the flue, a vertical partition extending partially into said flue and arranged at the merging junction between the air tube and the elbow for deflecting a portion of the air blast, an extension partition hinged to the first partition for deflecting a part of the blast through the air tube for keeping a blacksmith cool, and part through the furnace, or all the blast through one or the other, said extension partition having a projection arranged axially with the hinged connections of said extension partition, said

projection having a lateral spring arm, and means arranged annularly on the flue and concentrically with the hinged connections to be engaged by said spring arm to hold the extension partition in adjusted positions, and a spray nozzle carried by said air tube.

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

ANDREW C. KEPHART.

Witnesses:
J. T. HARRIS,
J. R. RAGAN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."