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COMPLETE SPECIFICATION.

[Communicated from abroad by B. A. HJORTH & Co., of Klara Norra Kyrkogata No. 5, Stockholm, in the Kingdom of Sweden, Merchants.]

Improvements in Heating Apparatus or Blow-lamps for Soldering and other Purposes.

I, HENRY HARRIS LAKE, of the Firm of Haseltine, Lake & Co., Patent Agents, 45 Southampton Buildings, in the County of Middlesex, do hereby declare the nature of this invention, and in what manner the same is to be performed, to be particularly described and ascertained, in and by the following statement:—

5 This invention relates to a petroleum heating and soldering apparatus or blow lamp, in which the burner consists of a ring-shaped tube, which is connected with the receptacle for the petroleum by a tube and with the outlet-opening for the evaporated petroleum by another tube the said outlet being situated on the axis of the ring.

10 The object of the invention is a device for increasing the heat and the uniformity of the flame from such a burner.

In the accompanying drawing,

Figure 1 is a soldering-lamp provided with the improved chimney, and

Figure 2 a vertical section through the axis of the burner.

15 *a* is the ring-shaped tube, *b* the tube connecting it with the receptacle for the petroleum and *c* the tube carrying the outlet or nipple *d*.

The invention consists of a funnel or chimney *e*, surrounding the burner which chimney is not made of a plain cylinder throughout the whole of its length but is reduced close above the ring-shaped tube *a* and provided with openings *f* below the

20 said tube.
By reason of this form of the chimney the flame at the outlet *d* is forced to pass around the tube *a* thus imparting to it a heat sufficient to gasify the petroleum and of such a uniformity as cannot be obtained without the use of the improved funnel, because the flame then passes through the middle of the tube *a* without passing

25 around it. On account of the uniform gasification of the petroleum in the tube *a*, the flame also becomes very uniform and the developed heat of great intensity.

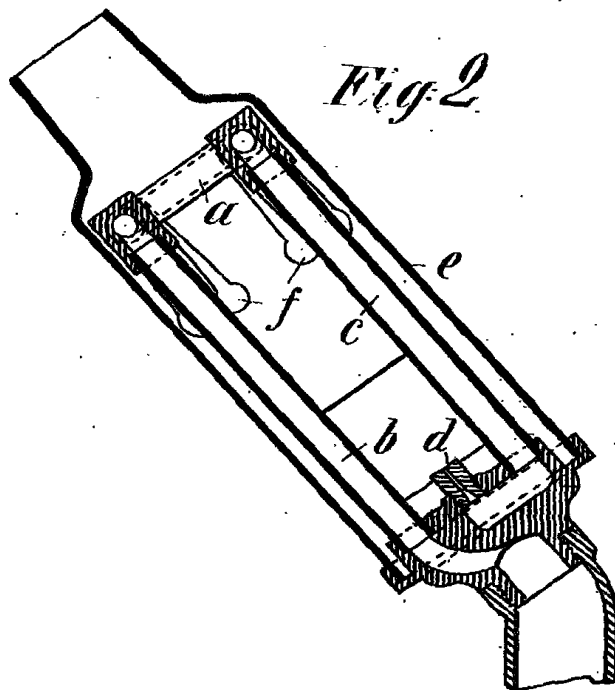
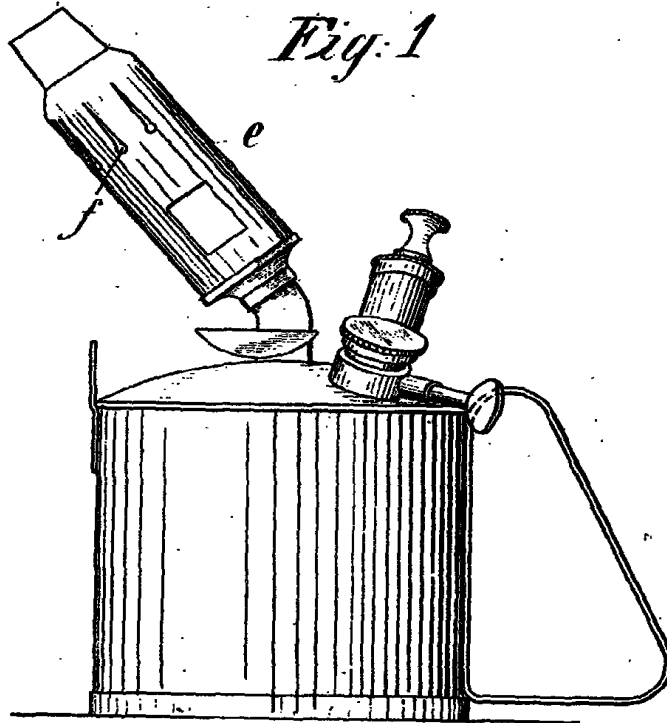
Having now particularly described and ascertained the nature of the said invention and in what manner the same is to be performed, as communicated to me by my foreign correspondents, I declare that what I claim is:—

30 In a petroleum heating apparatus or blow lamp with ring-shaped burner tube (*a*), the combination of the burner and a surrounding chimney (*e*), which is reduced close above the ring shaped tube and provided with openings (*f*) below it, for the purpose of producing a flame of great uniformity and heat.

Dated this 19th day of May 1894.

35 HASELTINE, LAKE & Co.,
45, Southampton Buildings, London, W.C., Agents for the Applicant.

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

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