

F. ALTMANN.
 INVERTED BURNER FOR LIQUID COMBUSTIBLES.
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1,025,851.

Patented May 7, 1912.

Fig. 1.

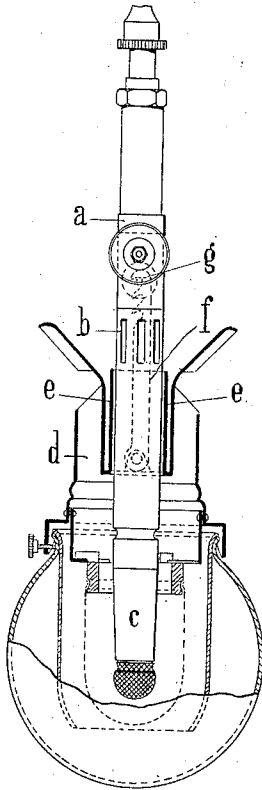


Fig. 2.

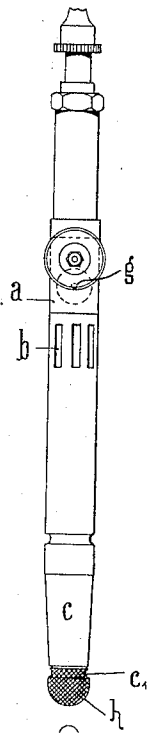


Fig. 3.

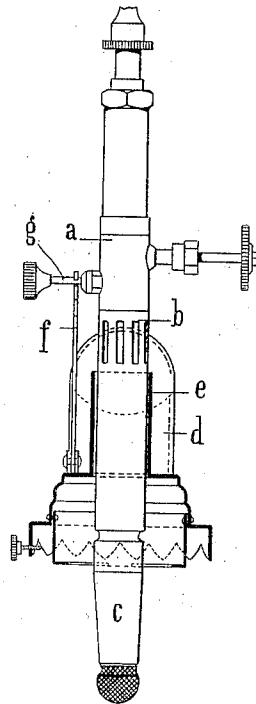
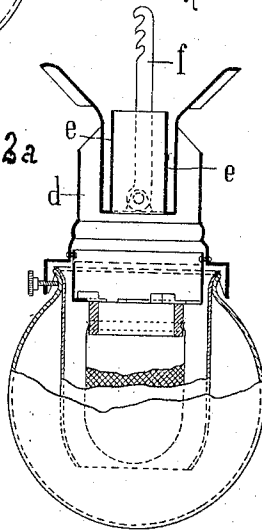


Fig. 2a



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UNITED STATES PATENT OFFICE.

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INVERTED BURNER FOR LIQUID COMBUSTIBLES.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FRITZ ALTMANN, a subject of the German Emperor, and residing at Berlin, Germany, have invented certain new and useful Improvements in Inverted Burners for Liquid Combustibles, of which the following is a specification.

My invention relates to inverted burners for liquid fuels, in which the products of combustion are led away through one or more chimneys.

A primary object is to provide such a burner having a special cap of wire gauze or perforated sheet metal at the nozzle of the burner, the burner being divided into two groups of parts which are adjustably and readily detachably connected one with another.

One illustrative embodiment of my invention is represented by way of example on the accompanying drawing, wherein:—

Figure 1 is an elevation, partly in section, showing a complete burner, Figs. 2 and 2^a are elevation and sectional elevation, respectively, showing the two groups separated one from the other, and Fig. 3 is an elevation, partly in section, showing the burner without mantle and globe as seen at right angles to Fig. 1.

Referring to the drawings, *a* designates the gasifier, *b* the Bunsen tube and *c* the burner nozzle. The latter has in it a groove *c'* and carries thereby a basket-like cap *h* of wire gauze or perforated sheet metal. In consequence of the gauze-like nature and basket-like shape of the cap, the total area of passage through the cap is larger than the orifice of the nozzle *c* and therefore a large flame can be formed and the flame is prevented from flashing back.

The chimney *d*, to which both the glass parts and the mantle are attached, comprises in its center a tube *e* which slides on the Bunsen tube *b*. In order to clean the cap *h*

or other parts of the burner the chimney 45 together with the parts attached thereto are pushed downward after detaching the hook *f* which is normally suspended from pin *g* provided in the tube *b*. Instead of the hook I may employ some suitable device which 50 connects the two groups of parts one with the other and also simultaneously admits of the same being moved. This movement is necessary in order to be able to adjust the distance between the mantle and the cap 55 corresponding to the liquid fuel employed and the pressure thereof, as well as to the length of the mantle and the flame.

I claim:—

1. An inverted burner for liquid fuels, 60 comprising in combination two groups of parts, one group comprising a gasifier, a Bunsen tube, having a nozzle connected therewith, and a cap surrounding the nozzle of said tube, and the other group comprising 65 a chimney, an incandescent body mounted thereon, and a globe mounted on said chimney; and means detachably connecting the two groups in such a manner that the distance between the cap and the incandes- 70 cent body can be varied.

2. An inverted burner for liquid fuels, comprising in combination two detachably connected groups of parts, one group comprising a gasifier, a Bunsen tube, having a 75 nozzle connected therewith, and a cap surrounding the nozzle of said tube, and the other group comprising a chimney, an incandescent body mounted thereon, and a globe mounted on said chimney, said chimney 80 having a centrally-arranged tube slidable on said Bunsen tube.

In testimony whereof I affix my signature in the presence of two witnesses.

FRITZ ALTMANN.

Witnesses:

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