J. REEKIE.

LAMPS FOR HEATING A TAILOR'S GOOSE.

No. 192,130 Patented June 19, 1877.

Fig-1-

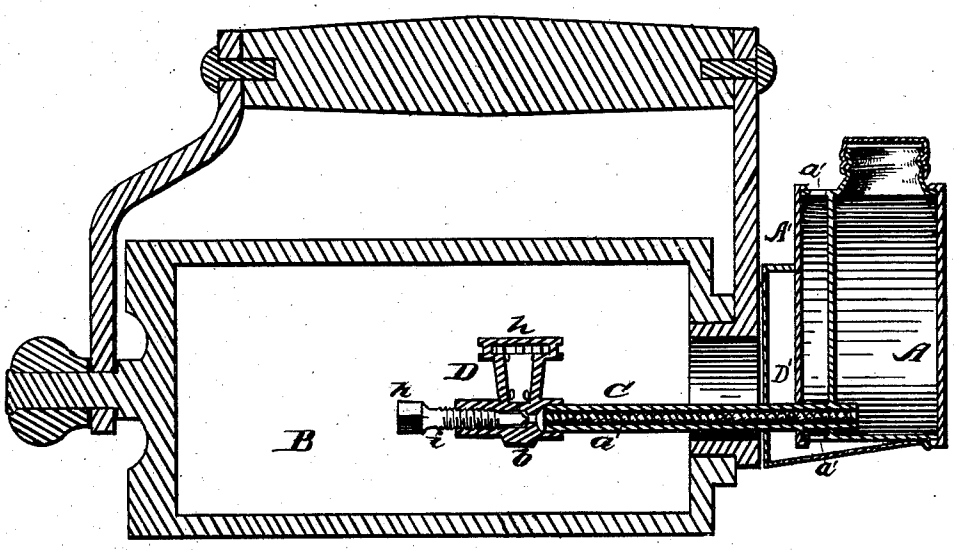


Fig-2-

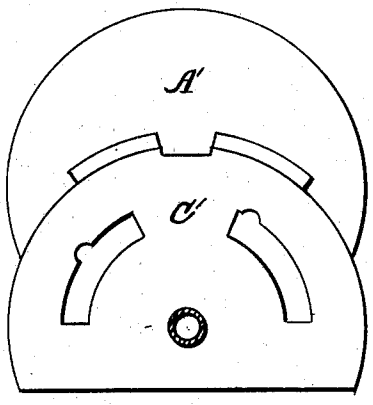


Fig-3-

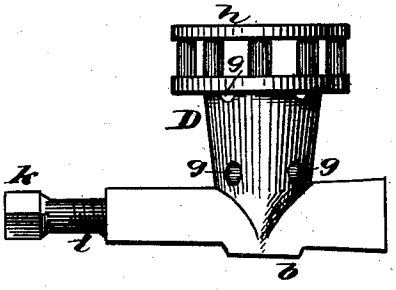
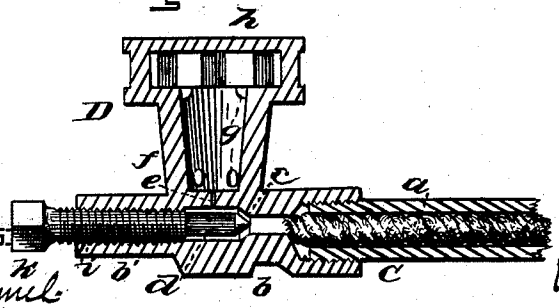


Fig-4-



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JAMES REEKIE, OF MARTLING, MISSOURI.

IMPROVEMENT IN LAMPS FOR HEATING A TAILOR'S GOOSE.

Specification forming part of Letters Patent No. **192,130**, dated June 19, 1877; application filed April 2, 1877.

To all whom it may concern:

Be it known that I, JAMES REEKIE, of Martling, in the county of Newton and State of Missouri, have invented certain new and useful Improvements in Lamps for Heating a Tailor's Goose; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same.

The invention consists in a lamp capable of detachable connection with a tailor's goose, provided with a vapor-burner of peculiar construction, as hereinafter specified.

In the drawing illustrating my invention, Figure 1 is a longitudinal section of the lamp and goose connected. Fig. 2 is a front view of the lamp with the burner wick tube in cross-section, showing the means upon the lamp for securing it to the goose. Fig. 3 is a side elevation of the burner, and Fig. 4 a longitudinal section of said burner and a portion of the wick-tube.

The essential characteristic of a goose adapted to receive my invention is a hollow interior, into which the burner of the lamp may extend. Such a goose, as ordinarily constructed, has means for the attachment of the lamp. It has also two ironing or smoothing surfaces, so that while one of such surfaces is being used the other is being heated ready for use.

My lamp consists of an oil-chamber, A, provided with a dead-air chamber, A′, having openings *a′* at the bottom and top, to permit of the passage of air caused by expansion. The bust C′ forms another air-chamber, D′, open at the sides (shown in Fig. 1) to allow of the free passage of air. By this construction non-conducting air-chambers are interposed between the oil-chamber and the heated iron for the purpose of retaining the oil at its ordinary temperature.

The bust is provided with bayonet-slats, as seen in Fig. 2, or other means for securing it to a goose, B. From the lower end or bottom of this chamber extends a tube, C, in which the wick *a* is placed.

Detachably connected to the end of the tube C is the burner D. This burner is constructed of a tube, *b*, the interior or bore of which is contracted at *c*, forming thereby a seat for a valve, *d*. This valve *d* may be continuous of a screw, *i*. The said screw *i* has a head, *k*, for adjusting it in the threaded portion *b′* of the tube *b*, which adjustment locates the valve *d* with reference to its seat *c*, thereby regulating the size of the opening in the tube.

A vertical slit, *e*, is made in the upper wall of the tube *b*, centrally of a core, *f*, that rises from the said tube. A number of air-inlets, *g*, are made in this core, and it is surmounted by a flame-deflector, *h*.

I do not confine the application of my lamp to a tailor's goose, for it may be used also with any self-heating sad-iron.

The operation is as follows: Sufficient heat being obtained to vaporize the fluid—as, for instance, gasoline—the gas issues from the slit *e* into the core *f*, where the air-inlets are located, and where the gas is ignited, and, rising therein, finds an exit beneath the deflector, which latter serves to diffuse it horizontally, and thereby distribute the heat throughout the iron or goose.

This core, with its air-inlets and deflector, acts very much like a blow-pipe, and produces an intense and quick heat.

The quantity of vapor allowed to escape is regulated by adjusting the valve *d* in its seat so as to govern the size of the opening in the tube *b*.

By this construction a cheap oil or other inexpensive fluid may be substituted for alcohol, and better results obtained.

What I claim is—

1. The combination of the oil-chamber A, air-chambers A′ and D′, tube C, adjustable valve and burner, with a tailor's goose, all constructed, arranged, and operating as shown and described.

2. The tube *b*, adjustable valve *d*, slit *e*, and core *f*, in combination with a deflector, *h*, substantially as shown and described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JAMES REEKIE.

Witnesses:
G. H. HOVEY,
W. MACBURNIE.