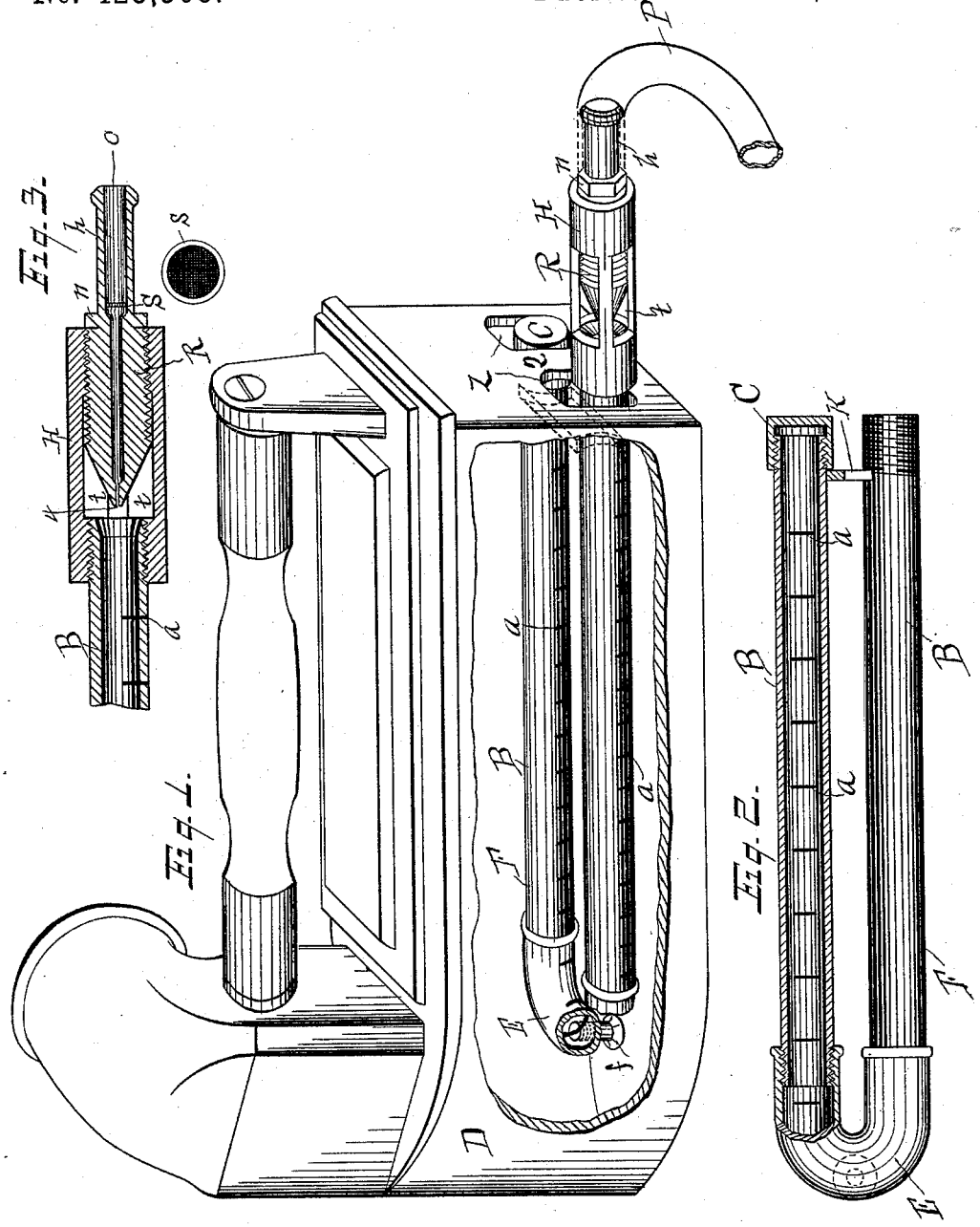
(No Model.)

A. W. BARBIER & P. P. COADY.

ATTACHMENT FOR A TAILOR'S GOOSE.

No. 423,368. Patented Mar. 11, 1890.



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ATTACHMENT FOR A TAILOR'S GOOSE.

SPECIFICATION forming part of Letters Patent No. 423,368, dated March 11, 1890.

Application filed July 10, 1889. Serial No. 317,088. (No model.)

To all whom it may concern:

Be it known that we, ALPHEUS W. BARBIER and PETER P. COADY, citizens of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Attachments for a Tailor's Goose; and we do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to an attachment to a tailor's goose or sad-iron; and it consists in providing such iron interiorly with a gas-burner having two series of jets across the tubing of the burner and a foot or leg to support the burner at its inner end, said jets or openings being in the under face of the burner, so that the gas when ignited will burn directly against the bottom of the iron; and the object of the invention is to provide means for rapidly and perfectly heating said sad-iron, and when in use to maintain a uniform degree of heat, the essential features being indicated in the claims. This result is attained by the device illustrated in the accompanying drawings, in which—

Figure 1 is a view of a tailor's goose embodying our invention, the side being broken away to show internal construction. Fig. 2 is a plan view of the burner, partly in section, showing the series of openings in the under face thereof. Fig. 3 is a central longitudinal section through the burner-cage, showing also a plan of the screen-diaphragm, which is located in the opening through the feeding-head.

As indicated in the drawings, D represents the ordinary tailor's goose or sad-iron, which is provided at the rear end with the openings Z.

F represents the burner, which is composed of the parallel tubes B and the elbow E, having in their under faces the transverse openings *a*. The burner F is placed within the iron D, as shown in Fig. 1. The leg *f*, which is screwed into the elbow E, supports the inner end of the burner, and the outer ends of the tubes B rest in the openings Z in the rear end of the sad-iron, whereby the burner is held slightly above the bottom of the iron, as clearly shown in Fig. 1.

The outer end of one of the tubes B is provided with the cap C. To the outer end of the other tube is secured the burner-cage H, which is tapped to receive the threaded feeding-head R, which is screwed thereon. The opening *c*, running longitudinally through said head R, forms the passage through which the gas flows to the burner. Located near the outer end of the opening *c* is the screen-diaphragm S, through which the gas flows, and which strains the gas, removing the small particles of carbon therefrom, thereby preventing from becoming clogged the reduced discharge 4 in the tapered end of the head R. (See Fig. 3.) To the extended end *h* of the head R is secured the flexible gas-hose P. (See Fig. 1.) Through said hose the gas is supplied to the burner, the hose being of sufficient length to permit of the iron being moved about at will in the act of pressing or ironing.

In order to insure perfect combustion of the gas, it is necessary to mix with it a certain quantity of air before it passes into the burner. This is accomplished by means of the openings *t* in the cage H, which allows the air to mix with the gas as it passes from the opening 4 in the tapered end of the head R into the conical opening in the end of the tube B of the burner. The amount of air that passes into the burner with the gas is regulated by means of the head R, which when screwed into the cage H reduces the openings, shutting off the supply of air, and when screwed out enlarging the openings *t*, increasing the supply of air, as will be readily understood. The head R is turned in the cage H by applying a wrench to the hexagon collar *n* of said head.

The openings Z in the end of the iron are made large enough to permit a sufficient quantity of air to circulate through the iron to insure perfect combustion.

The arm *k*, coupling the outer ends of the tubes B, engages the partition 2 between the openings Z when the burner is placed in the iron, as shown in Fig. 1, preventing the tubes B from sliding out, and retaining the burner in position.

It will be observed, when the herein-described device is placed in a sad-iron, as shown in Fig. 1, the openings *a* in the tubes B of the burner being in the under face of said tubes, the gas being turned into the burner and ignited, that the blaze from the jets or openings *a* will burn down and directly against the bottom of the iron, whereby the iron may be quickly and perfectly heated and a uniform degree of heat maintained therein.

Having thus fully set forth our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In combination with the body of the iron having openings through the rear end, the U-shaped tubular burner having a series of transverse openings in its under face, the leg at the front, the cap and arm at the rear, the cage coupled to the burner, the feeding-head screw-threaded in the cage and having the central opening with screen therein, the collar on said head, and tubing at the rear end thereof, substantially as and for the purposes specified.

2. In combination with the body of the iron having openings through the rear end thereof, the U-shaped tubular burner having the openings *a* in the under face, the cap C and arm *k*, the cage mounted on the rear end of the burner, the feeding-head screw-threaded within the cage and having the passage *c*, and tubing on the rear end thereof, as and for the purposes specified.

In testimony whereof we affix our signatures in presence of two witnesses.

ALPHEUS W. BARBIER.
PETER P. COADY.

Witnesses:
R. B. WHEELER,
E. S. WHEELER.