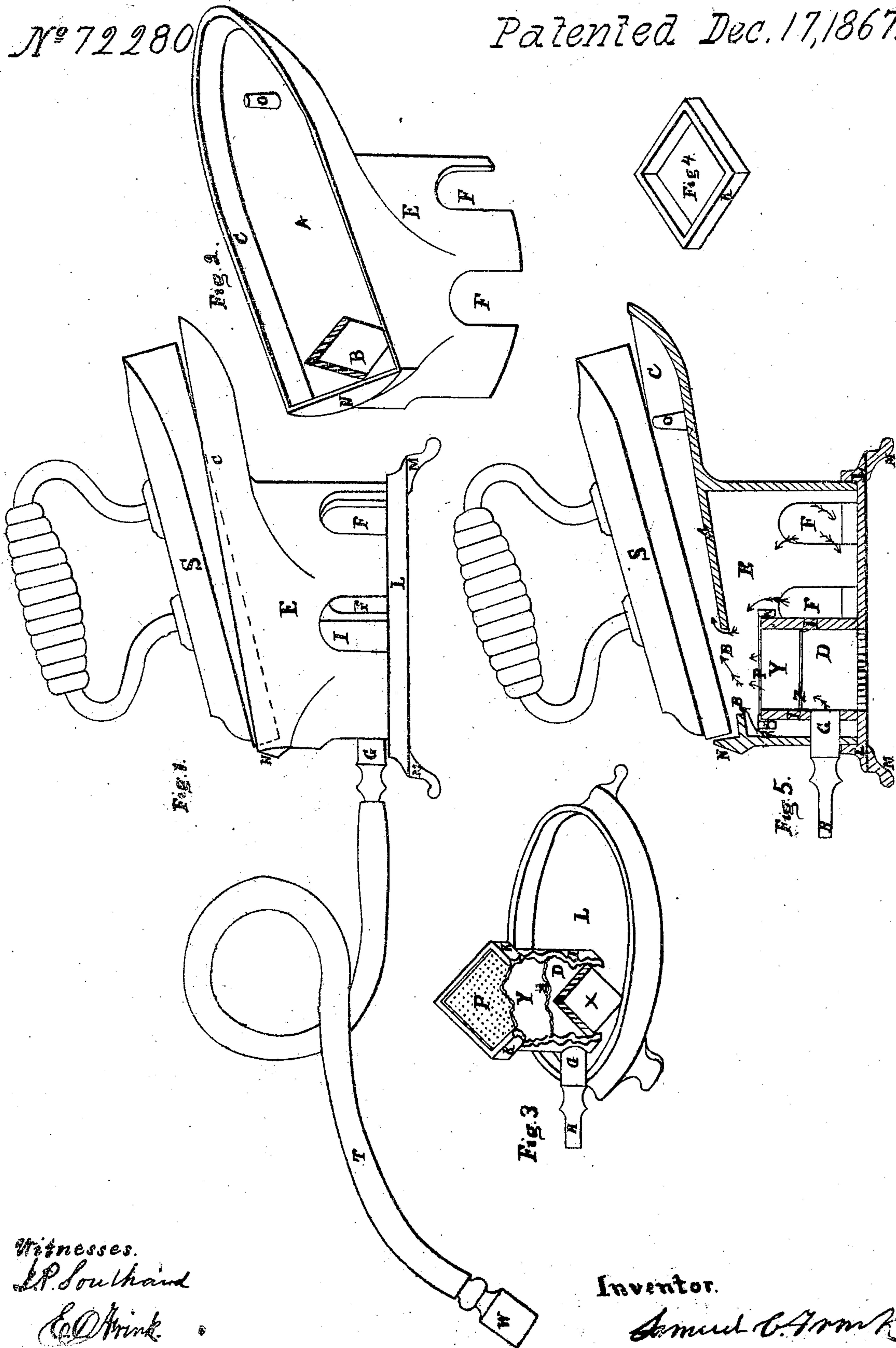


S. C. Frink.

Sad-Iron Heater.

N^o 72280

Patented Dec. 17, 1867.



Witnesses.

L. P. Southard

S. C. Frink

Inventor.

Samuel C. Frink

United States Patent Office.

SAMUEL C. FRINK, OF INDIANAPOLIS, INDIANA.

Letters Patent No. 72,280, dated December 17, 1867.

SAD-IRON HEATER.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, SAMUEL C. FRINK, of the city of Indianapolis, county of Marion, and State of Indiana, have invented a new, novel, and useful Mode of Heating Sad (Flat) or Tailors' Irons by Gas; and I do hereby declare that the following is a true, full, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference thereon, the same being part of this specification.

The nature of my invention consists in a complete apparatus for heating the common flat and tailors' irons by gas from a common gas-burner in the kitchen, parlor, bed-chamber, or workshop, without heating the handle, or producing any unpleasant or offensive smell, or but little extra heat in the room.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation in connection with the drawings and letters thereon.

Figure 1, of said drawings, represents the gas sad-iron heater complete, with the sad-iron S and the rubber tube W and T attached thereto.

Figure 2, of said drawings, represents the outside shell E, with the inclined plane A, the bevel sides C, and lug O, on which rests the point of the sad-iron while heating. B represents the flue through which the ignited gas and hot air pass. N is the back plate, to receive the heel of the iron S. F F F represent the openings for air to pass inside of the shell E, and mix with the gas after it passes through the perforated metal into the flue or opening B.

Figure 3, of said drawings, represents the base-plate or stand L, and a sectional view of the gas, air, and cotton-chambers, I I. The space or chamber D, between the opening X and perforated metal Z, is for gas and air. Z represents a floor of perforated metal or wire gauze, over which is the cotton-chamber and cotton, Y, the whole of which is covered with gauze-wire or perforated tin, or other metal, P, and bound or fastened in its place by the metallic ring or clamp K. The opening X in the base-plate L, and its elevation by the legs M M, are to give sufficient air to burn all of the gas that passes through the tube H G into the opening or air-chamber D, then through the floor Z, cotton Y, by which the gas is more effectually spread, increasing the heat thereby, and perforated metal covering, P.

Figure 4, of said drawings, represents a metallic ring or clamp, for holding on and fastening the upper perforated metallic covering of gas, air, and cotton-chambers I I.

Figure 5, of said drawings, represents a sectional view of the whole heating-apparatus complete. L, the base-plate or stand, with the air, gas, and cotton-chambers I I, and the draught-hole X. E represents the shell for air, and the inclined plane A attached, with the back stop N and opening B, for the flame and hot air to pass under the sad-iron, which is elevated at the point by lug O. The arrows mark the passage of the gas and air through the cotton-chamber and perforated metallic covering P. The flame from the ignited gas strikes the sad or tailors' iron at the heel, and passes along its face to the elevated point, heating the same sufficient for smoothing and pressing purposes, when it passes out into the air without heating the handle of the iron, or leaving any unpleasant smell in the room, arising from the gas.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. I claim the peculiar-formed base-piece L, as represented in fig. 3, with the air, gas, and cotton-chambers attached, separated by gauze-wire or perforated metal, substantially as set forth.

2. I claim the metallic ring or band K, fig. 4, when used to bind or make fast the gauze-wire or perforated metal P on the gas, air, or cotton-chambers I I, as represented in fig. 3 of drawings, substantially as herein set forth.

3. I claim the peculiar-shaped shell or cover E, with the inclined plane A, lug O, and bevelled sides C, to receive the flat or tailor's iron, as represented in figs. 1 and 2, substantially as herein set forth.

4. I claim the whole device, when constructed and operated substantially as set forth.

S. C. FRINK.

Witnesses:

H. A. MOORE,

I. P. SOUTHARD.