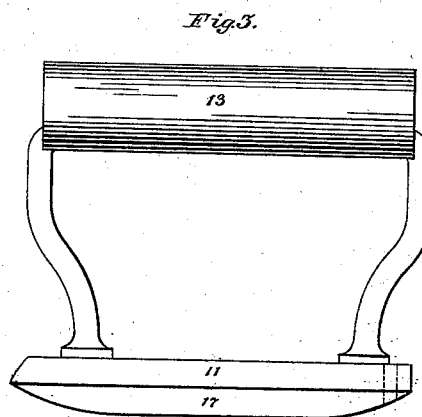
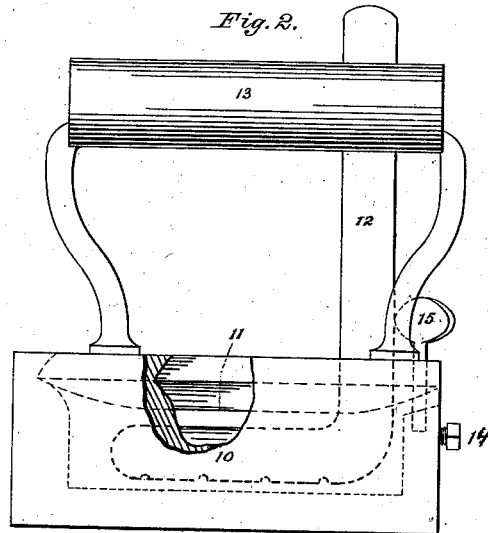
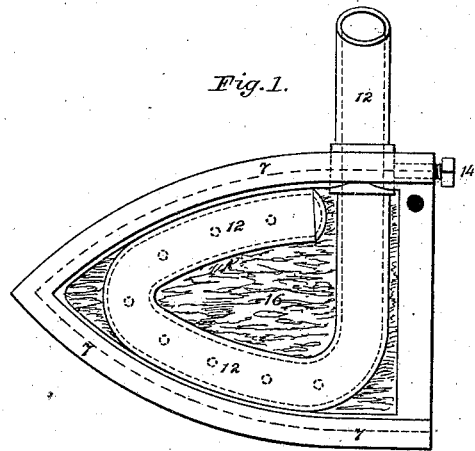


R. REID.
Smoothing and Polishing Irons.

No. 219,112.

Patented Sept. 2, 1879.



Attest:
E. F. Sick
J. B. Carpenter

Inventor:
Robert Reid by
A. Pollok
his attorney

UNITED STATES PATENT OFFICE.

ROBERT REID, OF GLASGOW, GREAT BRITAIN.

IMPROVEMENT IN SMOOTHING AND POLISHING IRONS.

Specification forming part of Letters Patent No. **219,112**, dated September 2, 1879; application filed July 8, 1879.

To all whom it may concern:

Be it known that I, ROBERT REID, of Glasgow, Great Britain, have invented a new and useful Smoothing and Polishing Iron, which improvement is fully set forth in the following specification.

This invention relates to that class of hand or sad irons which are heated by gas, or by an admixture of air with gas, or other inflammable vapor.

The iron is made hollow, with an open top, to which a shutter or lid is fitted so as to slide in grooves in the sides of the iron, the lid being held in its place by a pin or spring-catch, or other suitable means. The gas or admixture of air and gas is conveyed to the interior of the iron through a bent pipe passing through the side and around the interior. In the under side of said pipe are a series of perforations, through which the gas issues, playing, when lighted, upon a layer of asbestos or other material suitable for promoting combustion by diffusing the gas. This material is laid on the bottom of the iron. The bent pipe is held to its place by a set-screw passing through the end of the iron and pressing upon said pipe. The opening at the back of the iron to admit of the lid being removed also allows the products of combustion to escape. The under side of the lid is so shaped as to form, when the lid is detached, a polishing or burnishing iron, which is heated while the body of the iron is in use.

When the operator wishes to use the polishing-iron she has simply to take out the pin, withdraw the lid, and she has in her hand a polishing-iron ready for use. Further, when the lid is removed from the body of the iron, what remains can be used as a stove, for boiling, cooking, or general heating purposes.

The nature of my improvements and the manner of carrying them into effect can be best explained by reference to the accompanying drawings.

Figure 1 is a plan of my improved iron with-

out the lid or polishing part; Fig. 2, a side elevation of the complete iron, and Fig. 3 a side elevation of the handle and polishing-iron.

In these figures, 10 represents the body of the iron, which is hollow, with an open top. The lid 11 is held in its place by grooves, (denoted by dotted lines 7 in Fig. 1.) 12 is the pipe for conveying the gas, which is bent so as to conform to the shape of the iron. In the underside of the portion within the body of the iron are a series of perforations, through which the jets of gas play upon the asbestos 16, laid in the bottom of the body of the iron. 14 is a set-screw, which, being screwed through the end of the iron, presses upon the bent pipe, holding it in its place. 15 is the pin by which the lid is held in position on the iron.

The under part, 17, of the lid 13 is rounded, as shown in Fig. 3, so as to adapt it to be used when detached as a polishing or burnishing iron.

Having thus fully described my said invention, and the manner in which the same is or may be carried into effect, what I claim, and desire to secure by Letters Patent, is—

1. A sad-iron having a hollow body and adapted to be heated by gas, and provided with a removable lid rounded on the under side, and adapted to serve as a polishing or burnishing iron when detached, as set forth.

2. The combination, with the hollow body of a sad-iron, of the gas-inlet pipe entering said hollow and perforated, and a layer of asbestos or similar material located in the body of the iron, substantially as described, whereby the asbestos or similar material aforesaid serves to diffuse the gas; as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

ROBERT REID.

Witnesses:

JOHN REID,
JAMES BALLINTINE.