

(No Model.)

I. G. POLLARD.

SAD IRON.

No. 341,942.

Patented May 18, 1886.

Fig. 1.

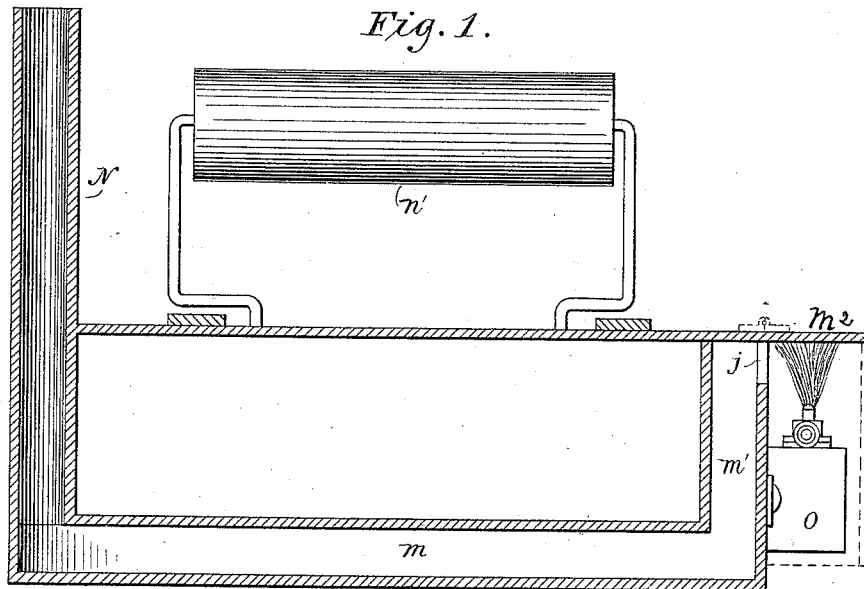
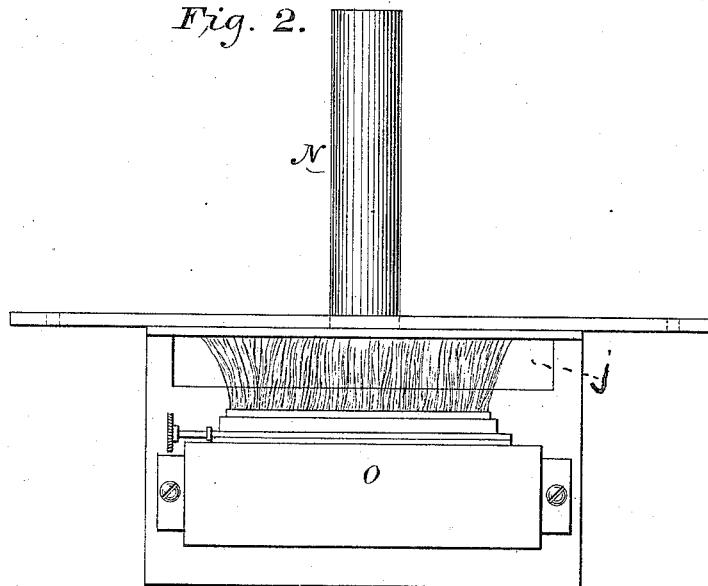


Fig. 2.



WITNESSES

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# UNITED STATES PATENT OFFICE.

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## SAD-IRON.

SPECIFICATION forming part of Letters Patent No. 341,942, dated May 13, 1886.

Application filed June 10, 1885. Serial No. 168,253. (No model.)

*To all whom it may concern:*

Be it known that I, ISAAC G. POLLARD, a citizen of the United States, residing at Sunville, in the county of Venango and State of Pennsylvania, have invented certain new and useful Improvements in Sad-Irons, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to sad-irons of the class or kind which have a lamp or stove attachment for heating them.

The object of the invention is to provide a simple, reliable, and efficient self-heating sad-iron which shall, when the heating device is in action, be kept at a uniformly proper degree of heat, so as to be in a condition for ironing continuously.

It consists in a sad-iron formed of plate metal having a flue extending around three or more of its sides, said flue traversing the bottom of the iron, so as to lie near the ironing-surface. This flue is provided with an opening at one end at or near the top of the iron for the admission of the flame and heat from the lamp or other heating device, which is secured to the end or side of the iron. A deflecting plate or hood is placed in a line with the top of the iron over the flame or source of heat, and serves to direct the same into the flue before described. The other end of the flue terminates in a chimney, which extends up sufficient height to prevent the smoke and heat from coming in contact with the handle of the iron.

While my iron is intended more especially for machine use, it will be understood that it may be used by hand as well. For this double use it may be provided with a handle of any suitable or desired character, or with means for engaging it with the moving parts of a machine, or with both.

In the accompanying drawings, Figure 1 is a longitudinal section of the iron, taken at one side of the lamp. Fig. 2 is an end elevation of the same, showing the lamp in place.

Similar letters refer to similar parts throughout the several views.

The iron is provided with an internal flue,

M, extending along close to its bottom from front to rear and from side to side of the iron. A wing, M', of this flue extends up at the back of the iron, and an opening, J, is formed through the back plate of the iron, leading into the wing M', as will be seen in the drawings. A plate, M<sup>2</sup>, is extended rearwardly from the upper side of the iron, as shown in Fig. 1, in such manner as to cover the lamp. A chimney, N, is connected with the forward end of the flue M, and extends upward so as to provide a sufficient draft to draw the heat and smoke through the flue and up the chimney. The lamp O is secured to the rear side of the iron, under ledge or plate M<sup>2</sup>, and so that its burner will extend across the opening J, as shown in Fig. 2. When desired, the plate M<sup>2</sup> may be provided with depending side and back plates and hinged to the iron, as indicated by dotted lines in Fig. 1, so it may be turned down over and form a hood for the lamp. It will be noticed that in the forward and back movements of the iron the heat from the lamp will be forced through flue M out of chimney N, and the bottom of the iron will continue heated during use. I provide the iron with a handle, n', so it can be used by hand when detached from the machine.

Having thus described my invention, what I claim is—

The smoothing-iron, substantially as hereinbefore described, provided with an internal flue extended along its bottom and formed with a rear upwardly-extended wing, and having an opening formed through the back of the iron at the upper end of said wing, and a plate or ledge extended to the rear over said opening, the lamp secured to the iron under said plate or ledge, and the chimney arranged at the front end of the iron and communicating with the internal flue therein, substantially as set forth.

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

ISAAC G. POLLARD.

Witnesses:

JOHN O'NEILL,  
J. C. JOHNSON.