

F. R. SUTTON.
FLUTING-IRON.

No. 173,082.

Patented Feb. 1, 1876.

Fig 1

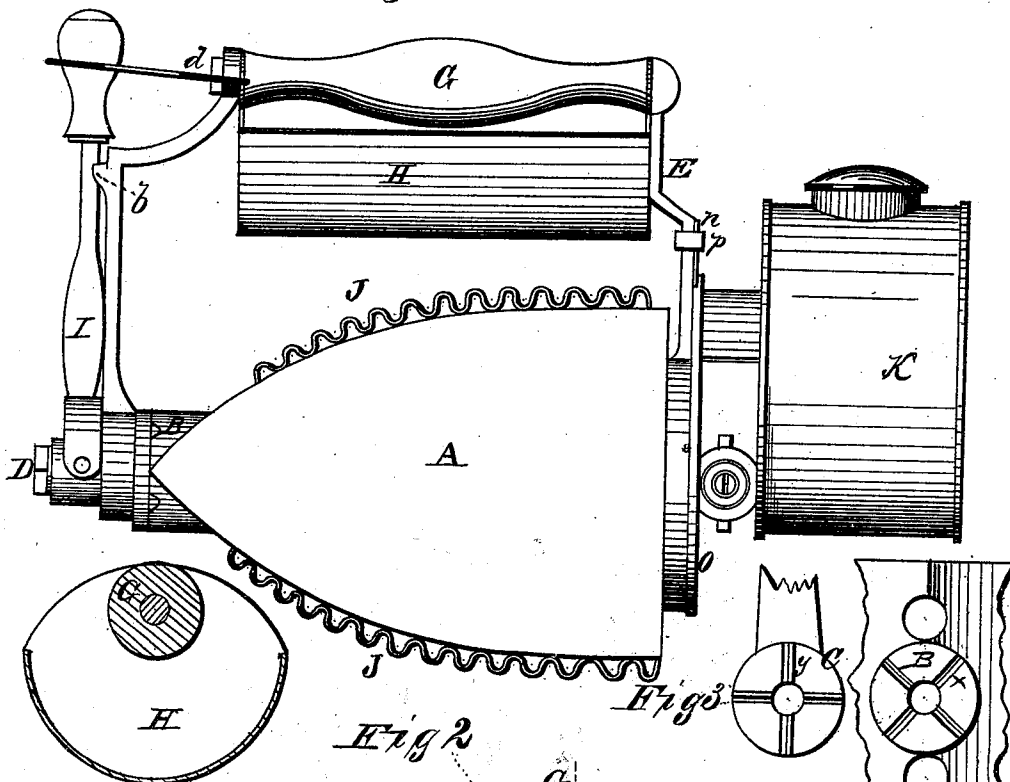
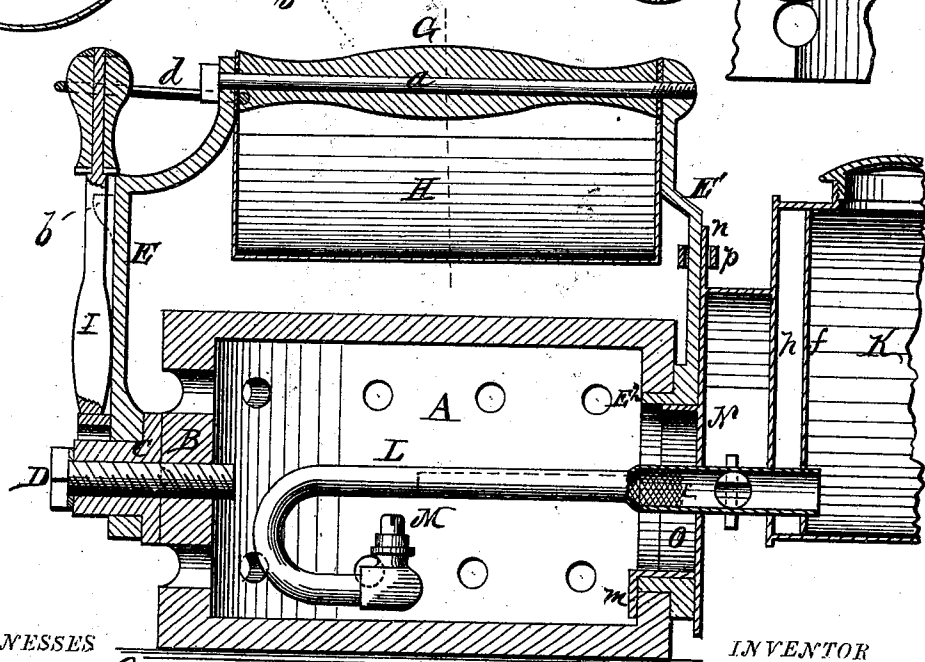


Fig 2



WITNESSES

INVENTOR

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FREDERICK R. SUTTON, OF KANKAKEE, ILLINOIS.

IMPROVEMENT IN FLUTING-IRONS.

Specification forming part of Letters Patent No. 173,082, dated February 1, 1876; application filed January 21, 1876.

To all whom it may concern:

Be it known that I, FREDERICK R. SUTTON, of Kankakee, in the county of Kankakee and in the State of Illinois, have invented certain new and useful Improvements in Fluting-Irons; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in certain improvements upon revolving sad-irons, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a plan view of a sad-iron embodying my invention. Fig. 2 is a longitudinal section of the same. Fig. 3 is a detailed view of a part thereof.

A represents the body of a revolving sad-iron, made hollow and in the usual form. The top and bottom of the iron are steel-faced, which facing extends over the edges of the iron also. At the toe of the iron A is formed a nose-piece, B, having four radial grooves, *x*, formed in its end. Against this nose-piece is placed a flanged sleeve, C, having radial ribs *y* on its inner end to fit in the grooves *x* on the nose-piece, the sleeve being held thereto by a bolt, D, passing through the sleeve, and screwing into the nose-piece. On the sleeve C is loosely placed the lever E, the upper end of which is, by a rod or bolt, *a*, connected with the upper end of another lever, E¹. The lower end of this lever has a large annular flange, E², formed on its lower end, which is inserted in a corresponding aperture formed in the heel of the iron, the two levers and rod, with the handle G placed on the rod, forming the handle-frame for operating the iron. From the rod *a*, under the handle G, is suspended a shield, H, for protecting the hand from the heat of the iron. On the outer end of the sleeve C is pivoted the lower forked end of a lever, I, which is thrown inward against the lever E, between two ears, *b b*, thereon, and held by a wire bail, *d*, or other suitable catch.

By simply releasing the bail *d* and moving the lever I outward, the iron may, by said lever, be reversed, and fastened again by the lever I and bail *d*, so as to use either face of the iron, it being understood that the sleeve C is held stationary against the nose-piece by means of the bolt D.

The sides of the iron A are provided with corrugated or fluted sheet-metal plates J, to be used for fluting purposes, said plates being permanently attached to the iron. When it is desired to use these plates the bolt D is loosened sufficiently to allow the ribs *y* on the sleeve C to get out of the grooves *x* on the nose-piece, and the sleeve to be turned one-fourth of a revolution, when the bolt is again tightened, and the lever-frame will be in position so as to use the fluting-plates on the sides of the iron and reverse the iron at will.

The iron is heated by gasoline contained in a reservoir, K, from which a tube, L, passes into the iron, the inner end of said tube being bent, as shown, and provided with a burner, M, which heats the tube to generate gas from the gasoline, and heats the iron. The tube L is provided with wicking *e*, as shown, to retract and regulate the flow of the gasoline. The reservoir K is, near the side next to the iron, provided with an interior vertical partition, *f*, forming a chamber, *h*, to be filled with plaster-of-paris, to prevent the gasoline in the reservoir from becoming heated from the heat of the iron. To the inner side of the reservoir is connected a plate, N, having an annular flange, O, to fit within the flange E² of the lever E¹ at the heel of the iron, and from the bottom of said flange O extends a hook, *m*, to catch on the inside of the iron, as shown in Fig. 2. The reservoir is then held by means of a sliding loop, *p*, on the lever E¹, moving down over an arm, *n*, projecting from the plate N. The reservoir can thus easily be attached and detached at will.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the iron A, with nose-piece B, having radial grooves *x*, the flanged sleeve C, with radial ribs *y*, the bolt D, the handle-frame, and locking-lever, all substantially as and for the purposes herein set forth.

2. The combination of the iron A, with the top and bottom smooth surfaces, the stationary corrugated fluting-plates J, attached to the sides of the same, the nose B, with grooves, the flanged sleeve, with ribs, the bolt D, levers E E', handle G, and annular flange E², all constructed substantially as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 20th day of January, 1876.

F. R. SUTTON.

Witnesses:

M. L. STOWELL,
H. A. HALL.