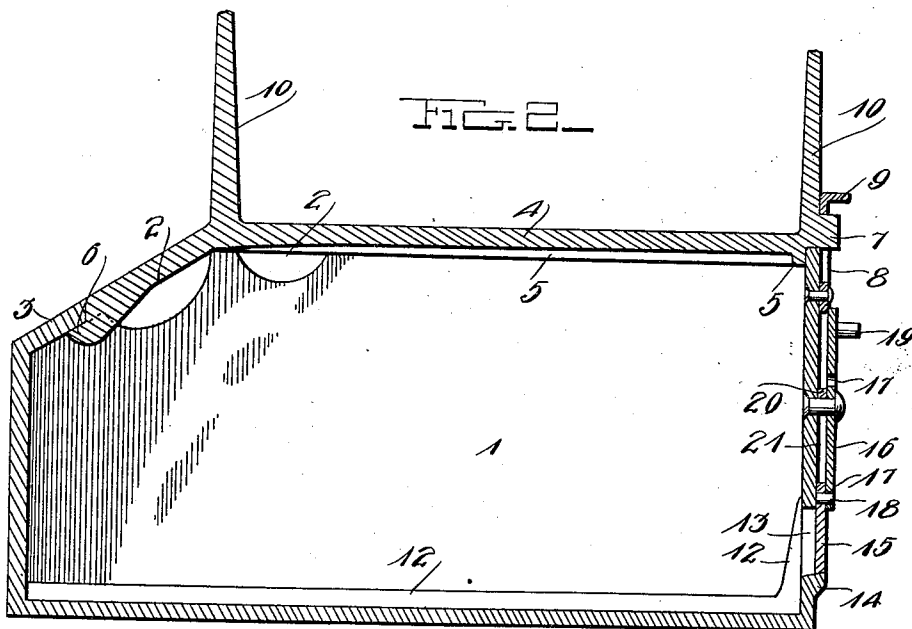
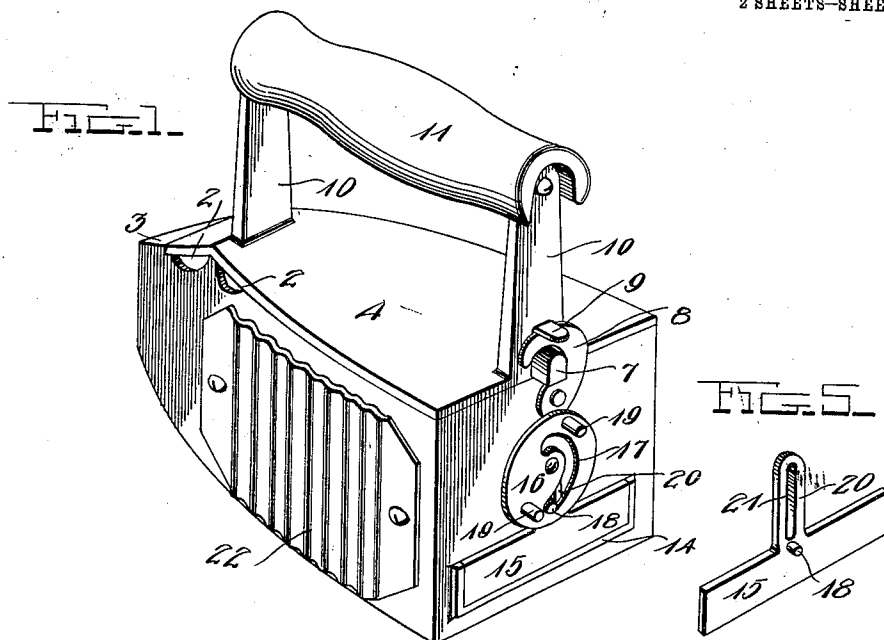


SAD IRON.

1,007,197.

Patented Oct. 31, 1911.

2 SHEETS—SHEET 1.



Witnesses
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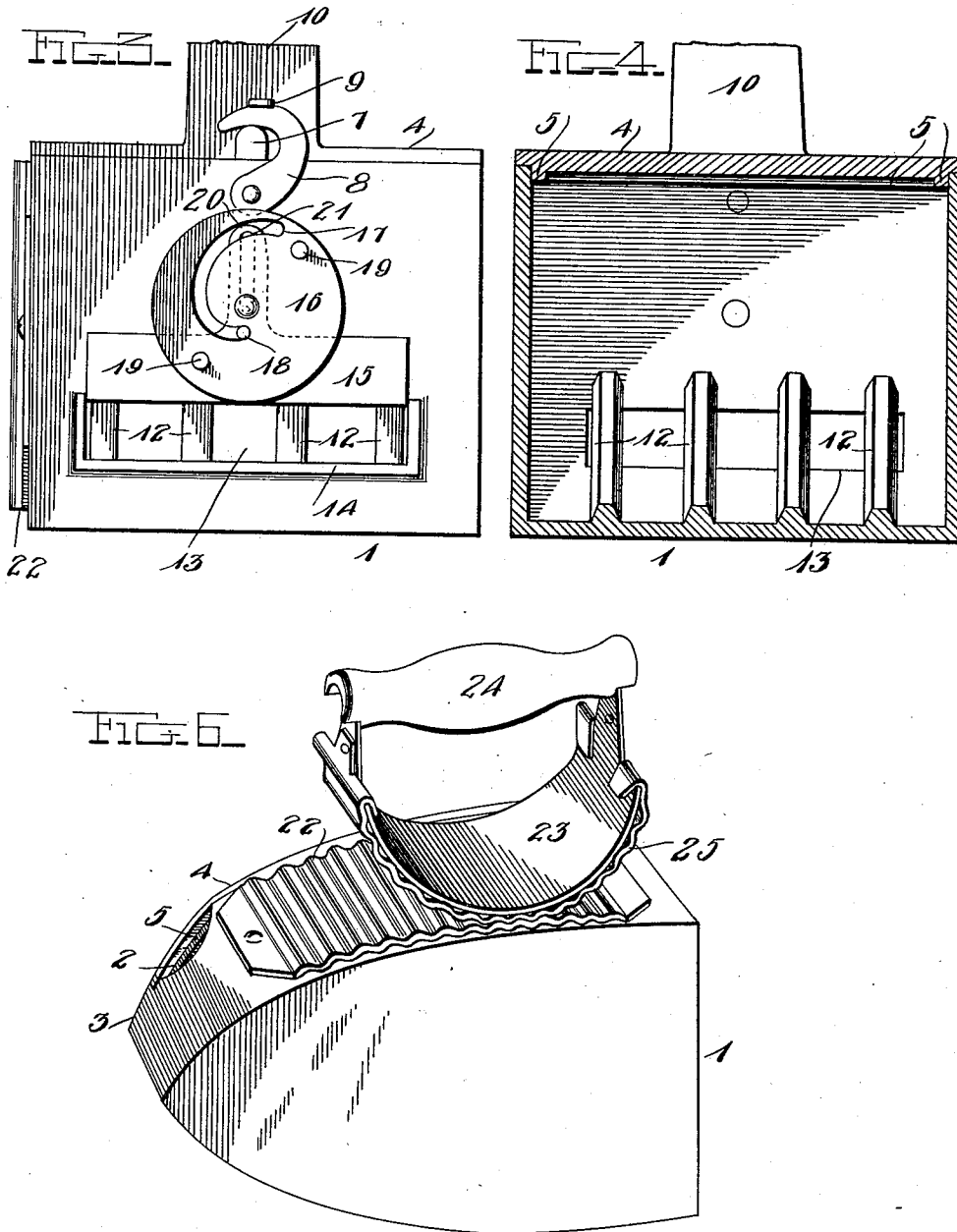
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SAD IRON.

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2 SHEETS-SHEET 2.



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UNITED STATES PATENT OFFICE.

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SAD-IRON.

1,007,197.

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To all whom it may concern:

Be it known that I, DANIEL FLOYD HARMON, a citizen of the United States, residing at Johnstown, in the county of Cambria and State of Pennsylvania, have invented certain new and useful Improvements in Sad-Irons; and I 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.

This invention relates to improvements in sad irons and particularly to carbon irons.

The object of the invention is to provide a sad iron of a generally improved character having in view simplicity and economy of construction and efficiency of operation.

With this object in view, the invention consists of certain novel features of construction, and combination and arrangement of parts which will be hereinafter fully described and afterward specifically claimed.

In the accompanying drawings: Figure 1 is a rear perspective view of my improved iron; Fig. 2 is a central vertical longitudinal section of the same; Fig. 3 is a rear end view; Fig. 4 is a vertical cross sectional view; Fig. 5 is a detail perspective view of the improved damper or draft regulating plate employed in connection with my improved iron. Fig. 6 is a perspective view showing the manner in which the iron is used for fluting.

Referring more particularly to the drawings, 1 denotes the hollow body portion of my improved iron, said body portion being of any suitable size and shape. In the upper edges of the sides of the front end of the iron are formed ventilating passages 2 and said upper edges of the front end of the body are inclined downwardly as shown. The upper edges of the sides of the iron where they come together to form the point or front end thereof are connected by an integral top piece 3 the purpose of which will be hereinafter described.

Adapted to be engaged with the top or upper edges of the sides of the iron is a top plate 4 having on its under side near its outer edges a rib 5 which engages the inner edges of the sides and rear end of the iron and forms a tight closure for the iron. The front end of the plate 4 inclines down-

wardly and fits upon the top of the inclined upper forward edges of the front portions of the sides of the iron and on the under face of said inclined front end of the plate 4 is formed a downwardly and forwardly extending locking lug 6 which is adapted to hook under the top piece 3 of the point of the iron and thereby securely fasten the front end of the top plate in place. On the rear end of the top plate is formed a rearwardly extending stud 7 having a curved upper edge with which is adapted to be engaged a catch in the form of a hook 8 the inner end of which is pivotally connected to the rear end of the body of the iron in position to permit the free end of the hook to be swung up into engagement with the stud 7 thereby securely fastening the rear end of the cover plate to the body of the iron. The catch hook 8 is preferably provided with an offset operating lug 9 whereby the same may be readily swung into and out of operative position. On the upper side of the top plate 4 at the rear end thereof and adjacent to the front end are formed upwardly projecting handle attaching members 10 to the upper ends of which is secured a handle 11, said handle being formed of wood or other material which will not readily become heated.

On the bottom of the iron and projecting up a suitable distance into the body thereof are longitudinally disposed ribs 12 which form grate bars upon which the charcoal or other material employed for heating the iron is placed. The rear ends of the ribs 12 extend upwardly on the inner side of the rear end of the body of the iron and across a ventilating or draft opening 13 formed in the rear end of the iron adjacent to the bottom as shown. By extending the rear ends of the grate bars upwardly across the opening 13 the fuel will be prevented from falling out of said opening. The ventilating passage 13 is preferably of oblong rectangular form and is provided around its side ends and lower edge with an outwardly projecting guide flange 14 with which is slidably engaged a damper plate 15, said plate being adapted to be raised for opening the ventilating passage 13 to a greater or less extent as desired. The damper plate 15 is raised and lowered and held in its adjusted positions by means of an operating disk 16 pivotally mounted on the rear end of the

iron and having formed therein a cam slot 17 with which is engaged a stud 18 which is secured to and projects rearwardly from the plate 15 as shown. The disk 16 is provided with rearwardly projecting operating pins 19 which are provided to facilitate the moving of the disk 16 for opening and closing the damper plate. The damper plate 15 has preferably formed on its upper edge a centrally disposed upwardly projecting extension 20 in which is formed a guide slot 21 through which the pivot stud for the damper operating disk extends, said stud thus forming a guide for the damper plate when the latter is moved upwardly and downwardly by said disk to open and close the draft passage in the rear end of the iron.

The iron is preferably provided with a fluting mechanism comprising a stationary corrugated fluting plate 22 which is secured by screws or other fastening devices to one side of the iron as shown. The movable member of the fluting mechanism comprises a curved supporting plate 23 the upper ends of which are reduced and secured to a handle 24. To the outer side of the supporting plate 23 is secured a corrugated fluting plate 25 which is adapted to be engaged with the plate 22 on the side of the iron and to act therewith for fluting the goods placed between said corrugated plates as clearly shown in Fig. 6 of the drawing.

From the foregoing description taken in connection with the accompanying drawings the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the

principle or sacrificing any of the advantages of the invention as defined in the appended claim.

Having thus described my invention, what I claim is:

An iron of the character described comprising a hollow body portion having in its rear end near the bottom thereof a draft passage and in the upper edges of the forward ends of its sides ventilating notches, a cover detachably engaged with the upper side of the body of the iron, means to secure said cover in place on the iron, ribs formed on the inner side of the bottom of the iron and extending upwardly on the inner side of the rear end thereof over the draft passage therein, a damper plate slidably engaged with the outer end of the iron and adapted to open and close said draft passage, a slotted extension formed on said plate, a pivot stud secured to the rear end of the iron and projecting through the slotted extension of said damper plate, said stud thereby forming a guide for the plate, a plate operating disk pivotally mounted on said stud, said disk having formed therein a cam slot, a stud arranged on said plate and engaged with said cam slot whereby when said disk is turned in one direction or the other the plate will be raised or lowered, and disk operating pins secured to and projecting outwardly from said disks.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

DANIEL FLOYD HARMON.

Witnesses:

JAMES R. GAHAN,
LULU M. MORAN.