

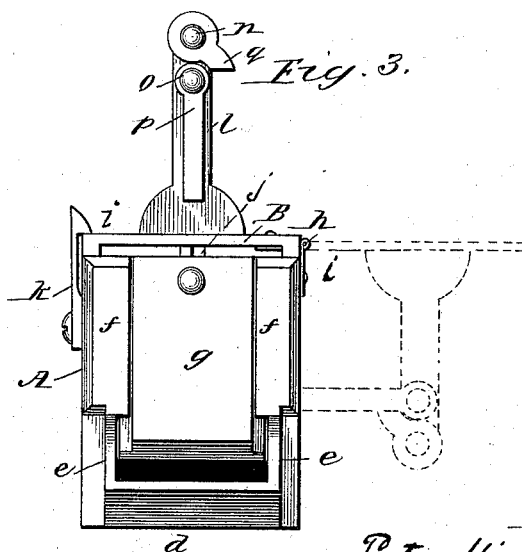
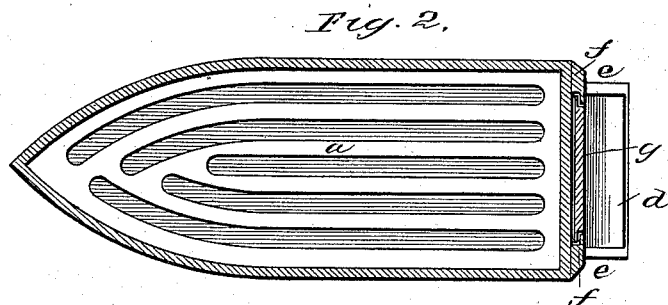
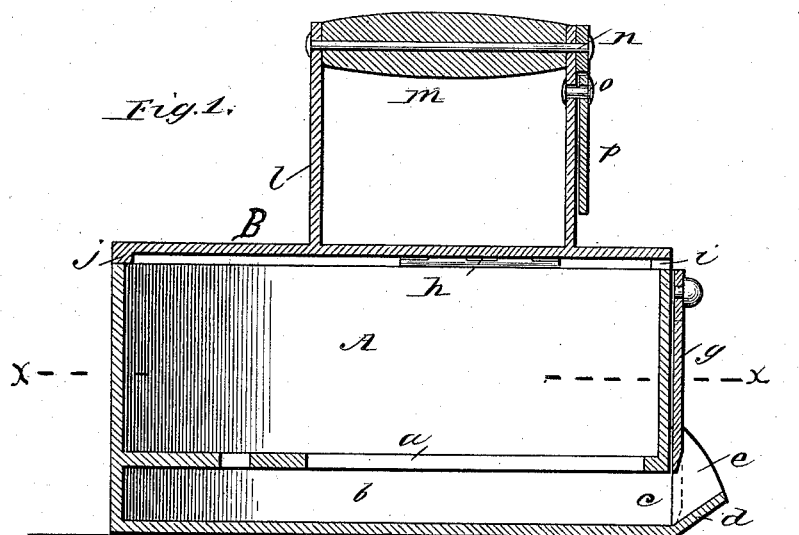
(No Model.)

P. MICHELS & J. KLEMMER.

SAD IRON.

No. 385,365.

Patented July 3, 1888.



Witnesses.
W. P. ...
Otto Lubberts.

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UNITED STATES PATENT OFFICE.

PETER MICHELS AND JOHANN KLEMMER, OF CHICAGO, ILLINOIS.

SAD-IRON.

SPECIFICATION forming part of Letters Patent No. 385,365, dated July 3, 1888.

Application filed February 21, 1888. Serial No. 204,843. (No model.)

To all whom it may concern:

Be it known that we, PETER MICHELS, a citizen of the United States of America, and JOHANN KLEMMER, a subject of the Emperor of Germany, both residing at Chicago, in the county of Cook and State of Illinois, 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.

This invention relates to the class of sad-irons heated by fuel from their inside; and our improvements consist in certain novel devices and combinations of devices hereinafter described and specifically claimed.

In the accompanying drawings, Figure 1 represents a longitudinal vertical section through center line, and Fig. 2 a sectional plan of the sad-iron on line *x x* in Fig. 1, and Fig. 3, a rear end elevation of the same.

Corresponding letters in the several figures of the drawings designate like parts.

A denotes the body of the sad-iron, being a hollow casing of the usual shape, open on top, and provided with a grate, *a*, formed therein a short distance above the bottom of the same, the space between such bottom and grate providing an ash-pit, *b*, which at the same time forms the channel for atmospheric air to pass through the grate *a* to the fuel spread thereon, and at the rear of the casing an opening, *c*, is provided for air to be admitted into ash-pit *b*, which opening *c* is guarded on its bottom by an inclined extension and by two side plates, *e*, to prevent ashes or coal from dropping out while the sad-iron is being used. Above this opening the rear of the casing has secured or cast on two side strips *f*, forming the guides for a vertically-sliding gate, *g*, by which the size of opening *c* can be adjusted or closed entirely for regulating the combustion of the incandescent coal upon the grate *a*.

To the top edge of one side of casing A is

pivotaly connected by a hinge, *h*, the cover B, having lugs *i* under its rear corners and a lug, *j*, under its forward end, on which the cover will rest when closed, so as to provide a shallow opening between such cover B and the top edges of the casing A, through which the gases of combustion will escape. This cover B, when closed, will be locked by a spring-hook, K, secured against the side of casing A, which spring-hook K must be pushed back for opening the cover. The cover B is provided with two standards, *l*, between which a turned wooden handle, *m*, is secured by a wire, *n*, passed through a central hole of handle *m* and through holes in both standards *l*, where its ends are riveted.

Against the rear face of rear standard *l* is pivotaly suspended on a rivet, *o*, an arm, *p*, that upon opening cover B will swing by its gravity until it rests upon a shoulder, *q*, formed to the top of standard *l*, and thus be sustained in a rectangular position relative to such standard or parallel with the face of the cover. The end of this arm *p* will bear against the side of casing A, and will thereby prevent the cover B from dropping below its horizontal position, and will prevent the handle *m* from coming into contact with the heated surface of the casting A.

What I claim is—

In a sad-iron, the combination, with casing or body A, of cover B, secured by hinge *h* and provided with standards *l*, for securing handle *m*, one of which standards *l* has a shoulder, *q*, and of arm *p*, pivoted against such standard *l* and swinging against shoulder *q*, all substantially as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

PETER MICHELS,
JOHANN KLEMMER.

Witnesses:

WILLIAM H. LOTZ,
OTTO LUBKERT.