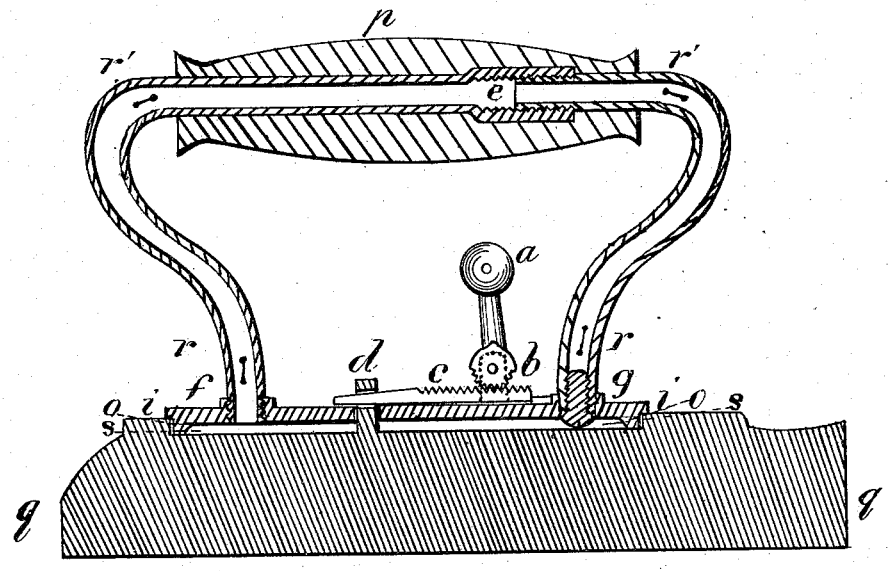
T. F. McEY & E. C. McCLAIN.

Sad-Iron.

No. 163,225. Patented May 11, 1875.



Witnesses
Fred Werbe
F. M. McDonald

Thomas F. McEy and
Edwin C. McClain
Joint Inventors.
by C. & M. McDonald
their Atty's in fact

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UNITED STATES PATENT OFFICE.

THOMAS F. McEY AND EDWIN C. McCLAIN, OF FRANKLIN, INDIANA.

IMPROVEMENT IN SAD-IRONS.

Specification forming part of Letters Patent No. **163,225**, dated May 11, 1875; application filed March 17, 1875.

To all whom it may concern:

Be it known that we, THOMAS F. McEY and EDWIN C. McCLAIN, of Franklin, Johnson county, Indiana, have invented an Improvement in Sad-Irons, of which the following is a specification:

The nature of the invention will be fully understood from the following general description and the accompanying drawings.

The accompanying drawing is a longitudinal vertical sectional view of the device.

The body *q* of the iron is much as usual, except the recess *s* and the lug or post *d*. The handle-plate *i*, to which is fastened the bow or loop *r r' r' r*, is provided with legs *o*, which hold it up in the recess *s*, so that between the plate *i* and the body *q* of the iron is a small space or chamber filled with atmosphere. This plate *i* is held in place by the sliding pin *c*, which, at one end, is adapted to a mortise in the lug or post *d*, and at the other end with a rack engages the pinion *b* of the oscillating lever *a*, so that by turning the lever *a* the slide *c* will slip backward and forward, fastening and releasing the handle-plate *i* at pleasure. The bow or loop *r r' r' r* consists of two pieces, joined together by a convenient screw at *e*. At *f* it is fastened to the handle-plate by a screw cut on the bow, and another adapted to it in the handle-plate. At *q* it is fastened by a separate screw, adapted to a thread cut in the interior of the end of the bow. The bow or loop *r r' r' r* is hollow, being composed of tubes. At *r* and *r* are cut holes in the bottom of the bow, and corresponding holes at *r'* and *r'* in the top of the bow, a current of hot air, induced by the heat of the iron, always passing through these holes; and the intervening parts of the handle will always keep the upper part of the handle cool. In this it will be aided by the atmosphere confined in the recess *s*, as before described. For convenience in handling, a wooden sheath envelops the upper end of the bow *r r' r' r;* the whole device to be constructed as shown in the drawing.

To use this device the part *q* alone is heated. The slide *c* is then drawn back by tilting the lever *a* toward *f* until slide *c* is entirely out of way of the lug *d*. The handle-plate *i* is then put on, as shown in the drawing. Tilting lever *a* toward screw *g*, the slide *c* is pressed into the mortise in the lug *d*, and the iron *q* and the handle held firmly together. It may now be used as an ordinary sad-iron. When it is cool the iron *q* may be taken off and heated alone, preserving all the time a cool handle at *p*.

I claim—

1. In a sad-iron, the combination and arrangement of the lever *a*, the pinion *b*, the rack-slide *c*, the lug or post *d*, and the handle-plate *i*, substantially as and for the purpose set forth.

2. The combination of the iron *q*, having recess *s* and lug *d*, the handle-plate *i*, having legs *o*, and secured by the slide *c*, and the detachable hollow handle *r*, all constructed substantially as set forth.

In testimony that we claim the foregoing specification we have hereunto set our hands this 30th day of September, 1874.

THOMAS F. McEY.
EDWIN C. McCLAIN.

Attest:
FRED. WERBE,
F. M. McDONALD.