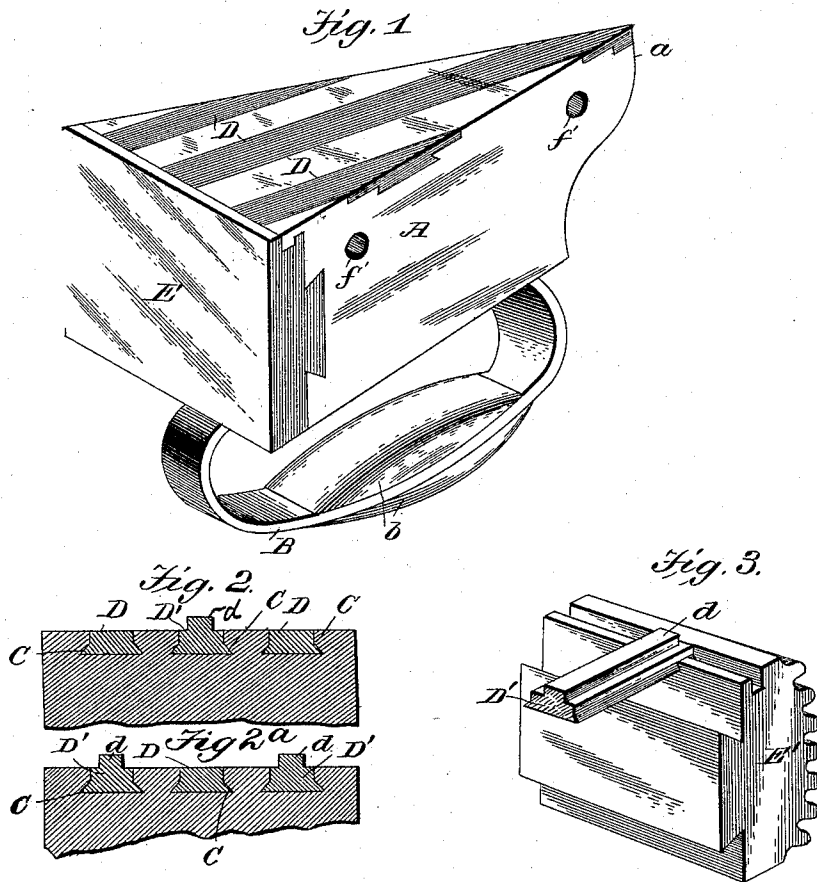


(No Model.)

W. HUNTER.
SAD IRON.

No. 477,660.

Patented June 28, 1892.



Witnesses:

M. W. Church
F. W. Ritter Jr.

Inventor,
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By J. R. Cornwall
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attys

UNITED STATES PATENT OFFICE.

WILLIAM HUNTER, OF HAVERHILL, MASSACHUSETTS, ASSIGNOR OF NINE-SIXTEENTHS TO HATTIE L. ELKINS AND RUFUS P. TAPLEY, JR., OF SAME PLACE.

SAD-IRON.

SPECIFICATION forming part of Letters Patent No. 477,660, dated June 28, 1892.

Application filed September 10, 1891. Serial No. 405,262. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM HUNTER, a subject of the Queen of Great Britain, formerly of Aberdeenshire, Scotland, but now residing at Haverhill, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Sad-Irons; and I do hereby 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.

My invention relates to a new and useful improvement in sad-irons; and it consists in providing the ironing-face proper with separable removable ribs and in the means for securing said ribs in position.

Figure 1 is a perspective view showing the smooth or polishing ironing-surfaces in place. Figs. 2 and 2^a are fragmentary cross-sections through the lower ironing-surface, showing different arrangements of the flush and ribbed strips. Fig. 3 is a perspective view of the preferred form of the rear ironing-plate provided with fluting-ribs.

In the drawings, A represents the body portion having tapering sides, which converge at the forward ends to a point *a*.

B is a handle secured to the upper part of the body portion, said handle being provided with any suitable non-heat-conducting material *b*, as shown.

C indicates the horizontal dovetailed grooves in the lower ironing-surface.

D and D' indicate strips adapted to slide in the dovetail grooves of the iron, the former of which being of such height as to be flush with the ironing-surface when inserted, and the latter being provided with ribs *d*, which ribbed strips may be substituted for the flush strips to adapt the iron to a particular class of work. This interchangeability of the strips is fully illustrated in Figs. 2 and 2^a. In Fig. 2 is represented a central strip provided with a rib, the other being flush, and in Fig. 2^a the central strip is flush and the others ribbed. It will also be noticed that the central strip may be removed and the iron successfully operated on articles which have projecting buttons or other projecting parts, said parts be-

ing allowed free passage through the ironing-surface of the iron through the medium of the dovetail groove, the iron passing on both sides of the projection. To retain these strips in place, I may provide suitable means on the detachable piece at the rear of the iron, such as shown in Fig. 3, which consists in forming cross-grooves on the rear ends of the strips and a tongue on the lower edge of the detachable ironing-plate, said tongue adapted to enter the cross-grooves in the ends of the strips and thereby lock the same in place. It is also obvious that the strips may be made of softer material than the body portion of the iron, which is generally formed of cast-iron—such, for instance, as brass, copper, &c.—and said material, being more readily influenced by heat in the same space of time as the body of the iron, will expand, and thereby retain themselves in position.

E indicates the detachable ironing-surface at the rear of the iron, said part being provided with a tongue adapted to fit in a cross-groove in the rear face of the iron, as shown, and thereby retain the part E in place.

E' represents a similar part provided with a like tongue adapted to fit in the cross-groove of the iron and is provided with a convexed outer surface, upon which is formed ribs, whereby a fluting-surface is formed.

I am aware that many minor changes may be made in the construction and arrangement of my device and substituted for those herein shown and described without in the least departing from the nature and principle of my invention.

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

1. An iron provided on its face with separable removable ribs, substantially as and for the purposes described.

2. An iron provided with dovetailed grooves in its face and interchangeable strips adapted to be secured in said grooves, whereby ribs may be formed on portions of the ironing-face, leaving the remaining portions smooth or unobstructed, substantially as and for the purposes described.

3. An iron provided with longitudinal dove-tailed grooves in its face, strips conforming in cross-section to the contour of the grooves, and ribs on the faces of said strips, substantially
5 as and for the purposes described.

4. In an iron, the combination of the body portion having grooves in its lower face, strips in said grooves, said strips being provided with cross-grooves in their rear ends, and a
10 removable ironing-plate on the rear of the

iron, provided with a tenon on its lower edge adapted to slide in the cross-grooves in the strips, substantially as and for the purposes specified.

In testimony whereof I affix my signature in 15
presence of two witnesses.

WILLIAM HUNTER.

Witnesses:

RUFUS P. TAPLEY, Jr.,

WILLIAM H. TRUDEL.