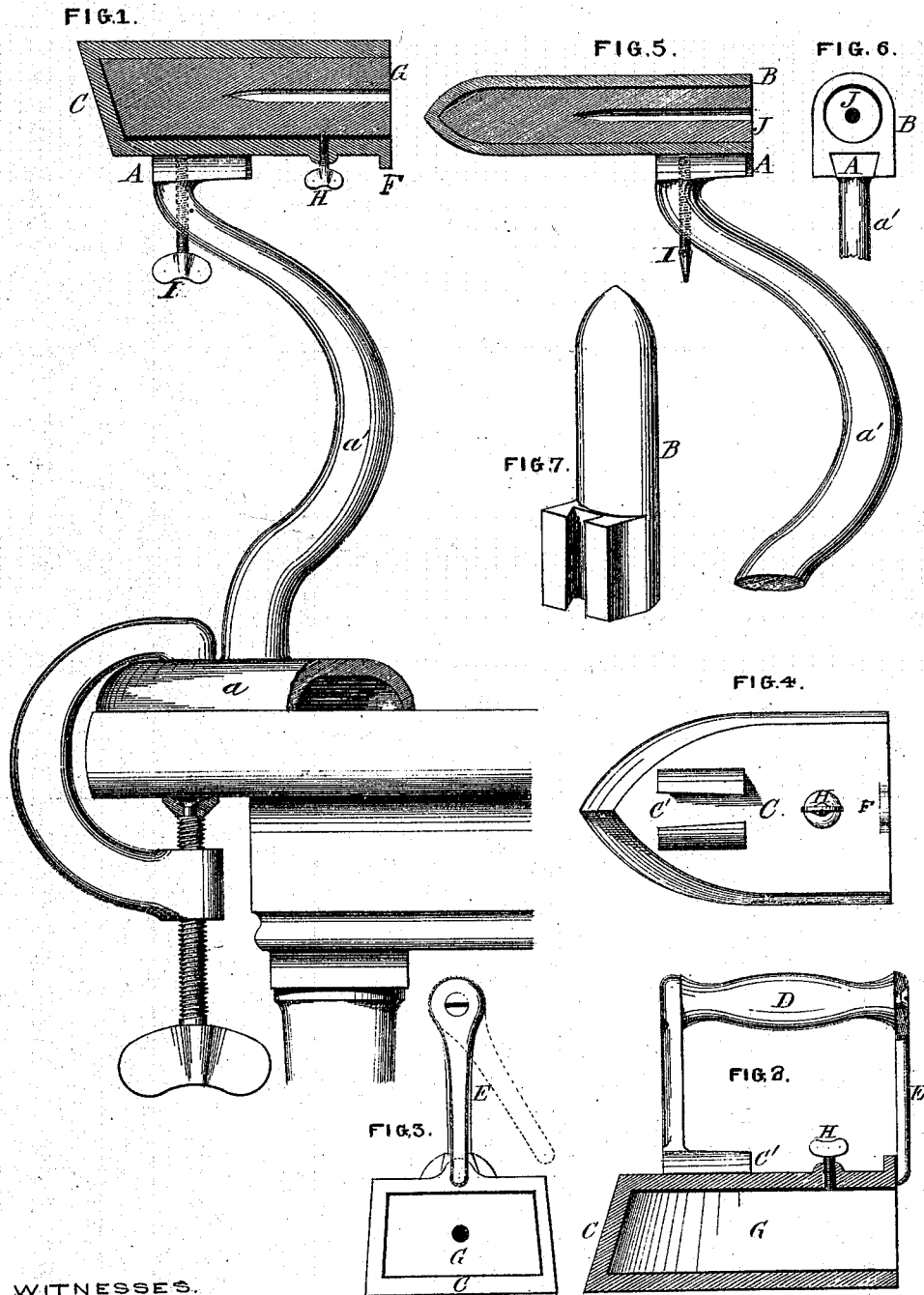


W. D. Robertson,

Fluting Iron.

No. 112,282.

Patented Feb. 28. 1871.



WITNESSES.

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WILLIAM D. ROBERTSON, OF KNOXVILLE, TENNESSEE.

IMPROVEMENT IN SAD AND FLUTING IRONS.

Specification forming part of Letters Patent No. **112,282**, dated February 28, 1871.

I, WILLIAM D. ROBERTSON, of Knoxville, in the county of Knox and State of Tennessee, have invented a new and useful Combined Sad-Iron, Velvet-Steamer, and Fluting-Iron, of which the following is a specification:

Nature and Objects of the Invention.

My invention is designed to provide a useful and convenient combination implement for the use of tailors, dress-makers, dyers and scourers, laundresses, and others employed in making and "getting up" articles of wearing apparel, &c., more especially of the finer description.

It consists, first, of a stand, which may be either temporarily attached to a table or other convenient object by means of a clamp or otherwise. The stand is constructed more especially for use with the implements hereinafter described, but may be readily adapted for holding and supporting various tools and utensils employed in other branches of mechanical industry.

Second, of a reversible flat-iron and velvet-steamer with a removable handle, heated internally, in usual manner.

Third, of a fluting-iron of peculiar form, heated in similar way.

Description of the Accompanying Drawing.

Figure 1 is an elevation representing the stand as clamped to a table, the sad-iron (shown in section) being attached to the stand. Fig. 2 shows the sad-iron in section and its handle in elevation. Fig. 3 is a rear end view of the sad-iron. Fig. 4 is a top view of the same with handle detached. Fig. 5 is a sectional view of the fluting-iron attached to the stand. Fig. 6 is an end view of the same. Fig. 7 is a perspective view of the fluting-iron detached.

General Description.

The stand consists of a foot, *a*, a vertical branch, *a'*, which may be either straight or so curved as to admit of the most ready manipulation of the fluting or other iron on the head thereof and the fabric under treatment, and a head, *A*, of such shape, preferably slightly tapering, as to fit into grooves in the various utensils which are intended to be used there-

with, and permit their ready removal and replacement, as required.

The flat-iron *C* may be of usual shape, having an interior cavity for the reception of the heater *G*, which has a hole at rear, adapting it to be lifted in and out by means of a loose handle.

The iron itself has a slotted lug at front and an upwardly-projecting ear at rear. The former of these is fitted to receive a dovetail on the lower part of the forward branch of the handle, and the latter serves as a stop for the backward branch of the handle, which is pivoted above, enabling it to be rotated so as to clear the stop when it is desired to lift the handle out. A thumb-screw, *H*, through the top of the shell of the iron presses the heater against the bottom thereof when in inverted position, and assists to retain it in place.

When desired to use the iron as a velvet-steamer, the handle *D* is removed, and the iron is placed bottom upward on the stand *A*, the tenon of which fits into the mortise of *C*, and is firmly secured by the thumb-screw *I*, working upwardly in said tenon.

This application of the iron *C*, I consider as supplying an important desideratum to practical workmen, the only method, so far as I am aware, of restoring velvets to their original smoothness of appearance when the plush was ruffled or crushed having hitherto been for one person to hold the iron upside down, while another drew the material, previously damped on the wrong side, over the iron.

My device, besides greatly lessening the labor, dispenses with the services of one operator for this purpose. It also affords a superior means of finishing the getting up of dress-waists and other gathered work by drawing the same over the bottom of the iron when inverted, enabling the operator to see clearly what is being done, instead of having the part being ironed hidden from view, as is the case when ironing in the usual way on a table. When the more difficult part of the work is thus finished, the iron can be taken off the stand, the handle almost instantaneously replaced, and the implement used in the ordinary way.

The outer shell of the fluting-iron *D* is cylindrical throughout the greater part of its length,

has a conoidal point and a shank with a dove-tail mortise, into which the tenon A of the stand fits.

The heater J is adapted in form to fit the interior of the shell B, so as to afford uniform heat to every part of the acting surface of the iron, and is taken out and replaced in manner before described.

Any number of different-sized irons may be adapted to fit the tenon A.

The fluting-iron, by its form and manner of heating and mounting, is peculiarly adapted for finishing or ironing the flounces of dresses, trimmings, frills, ruffles, &c., they being drawn over the iron, the tapering point of which may be pressed up into the gathers, giving a smooth finish to parts which can be reached, if at all, only with great difficulty in the ordinary way.

Claims.

I claim as my invention—

1. The stand A, in combination with an invertible flat-iron, C, and a removable fluting-iron, B, substantially as and for the purposes specified.

2. The invertible flat or steaming iron C, having a removable handle, D, with pivoted branch E, and provided with a slotted lug, C', ear F, and thumb-screw H, substantially as and for the purposes specified.

3. In combination with the invertible iron C, the thumb-screw H, when placed in the back of said iron, and employed to hold the heater in close contact with the face-plate when in an inverted position, as specified.

WILLIAM D. ROBERTSON.

Witnesses:

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CHAS. H. BROWN.