

W. S. OWEN.
Fluting-Iron.

No. 226,776.

Patented April 20, 1880.

Fig-1.

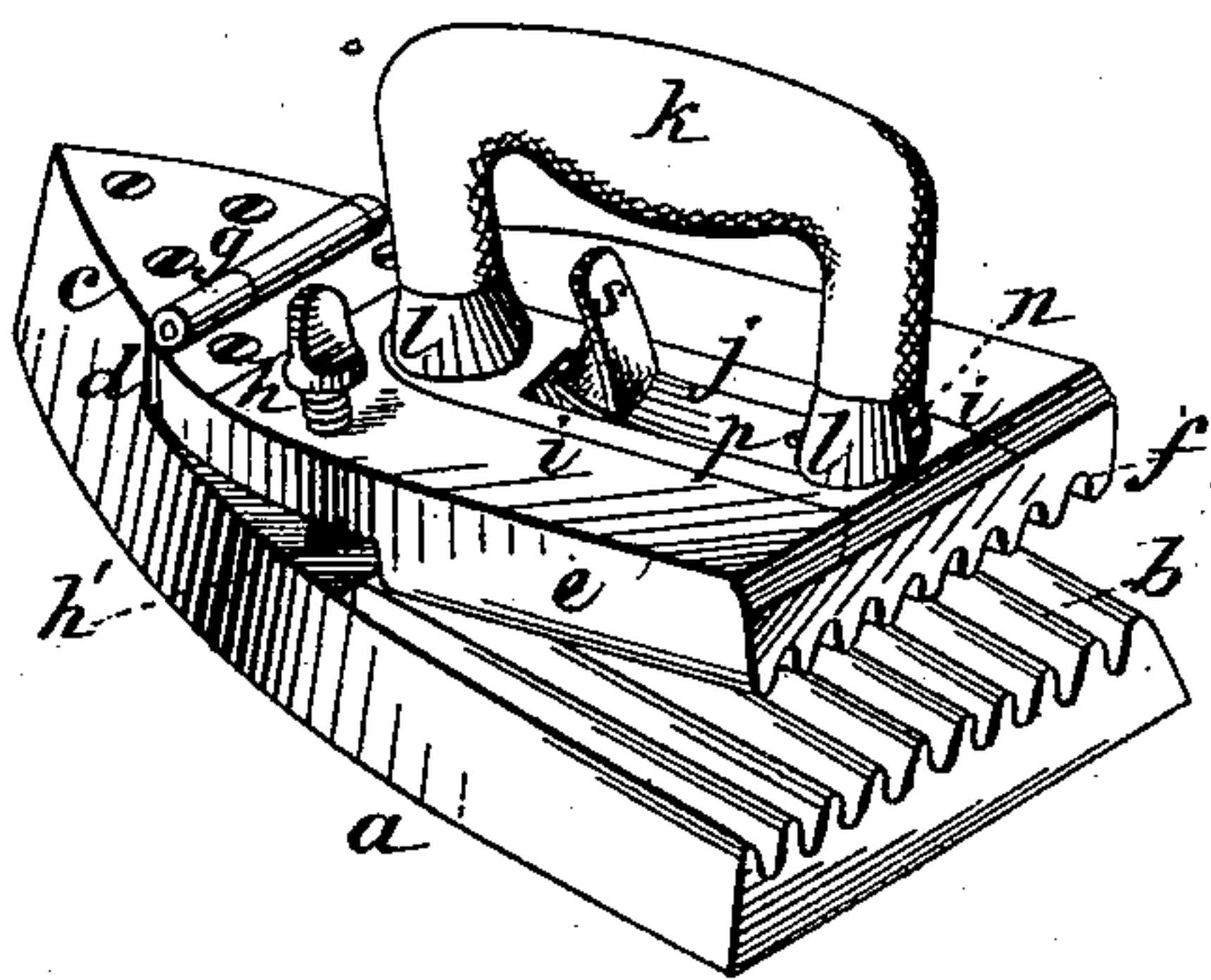


Fig-2.

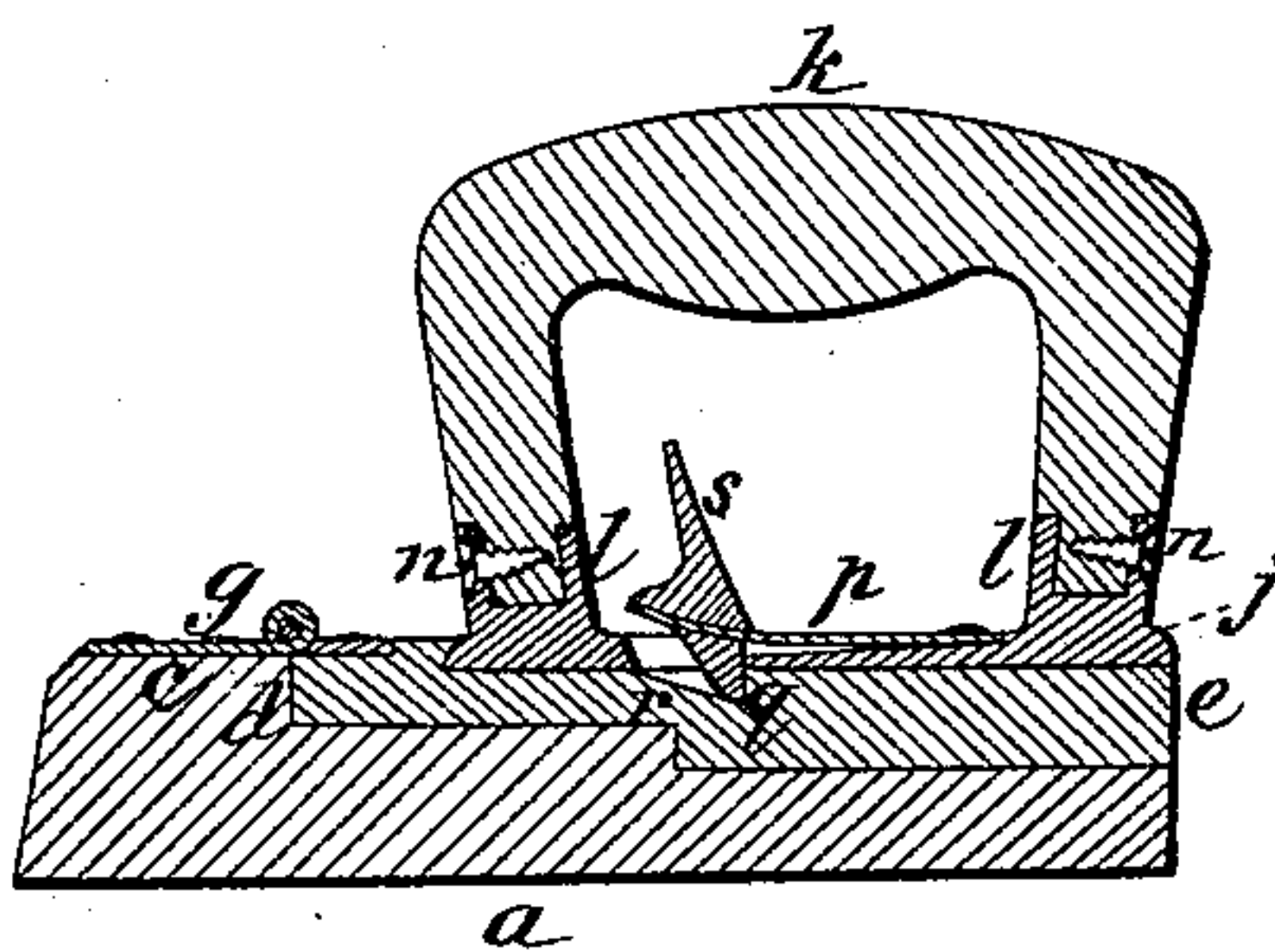
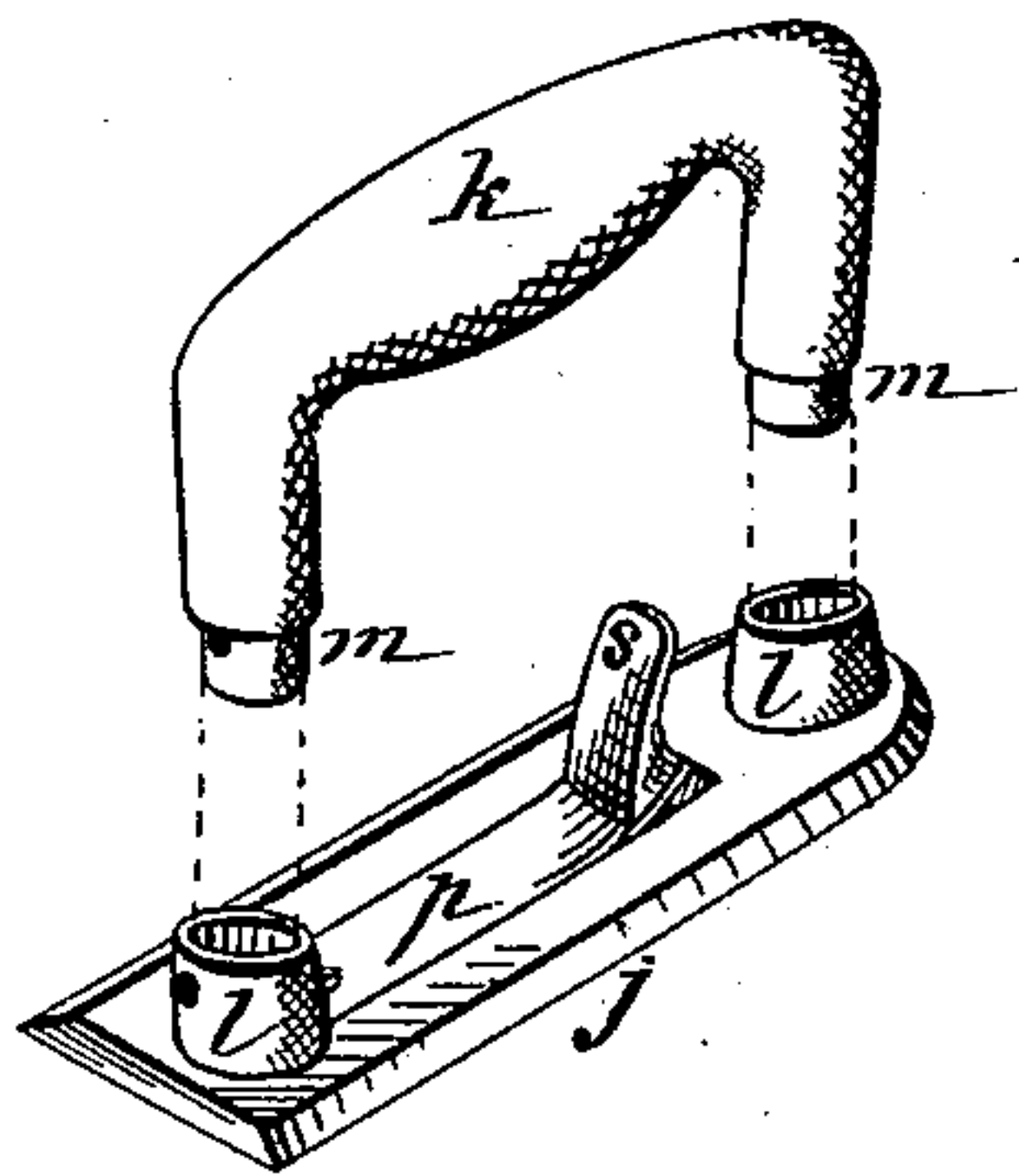
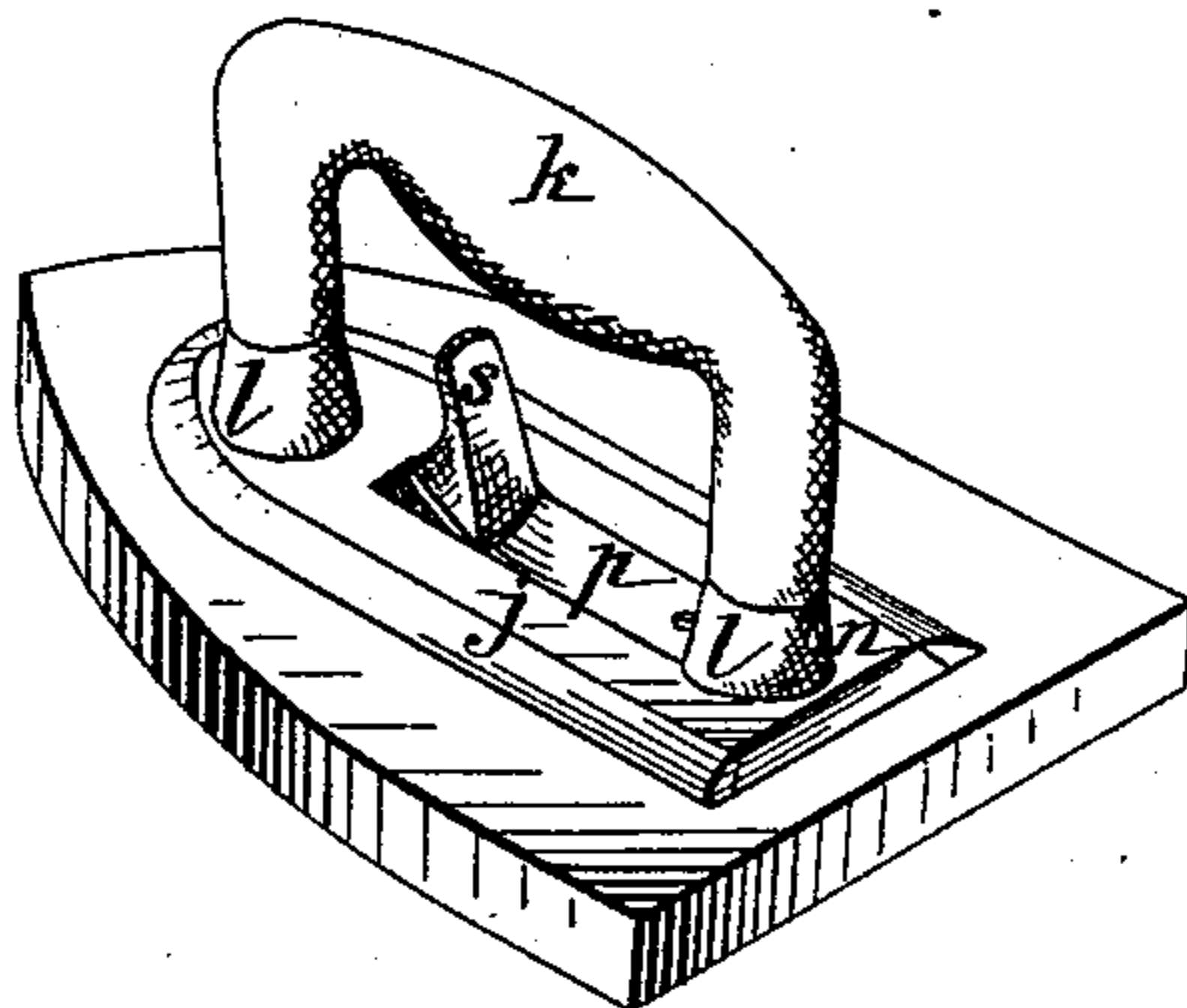


Fig-4.

Fig-3.



WITNESSES=

Jas. E. Hutchinson.
Floyd Norris.

William S. Owen
INVENTOR.

by Johnson & Johnson
Attys

UNITED STATES PATENT OFFICE.

WILLIAM S. OWEN, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR
OF ONE-HALF OF HIS RIGHT TO ACHSAH COX AND ANNIE E. KENT,
OF SAME PLACE.

FLUTING-IRON.

SPECIFICATION forming part of Letters Patent No. 226,776, dated April 20, 1880.

Application filed August 26, 1879.

To all whom it may concern:

Be it known that I, WILLIAM S. OWEN, of Washington city, in the District of Columbia, have invented certain new and useful Improvements in Combined Smoothing and Fluting Irons; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My improved sad-iron is of the kind in which a fluting and smoothing iron section are hinged together for either fluting or smoothing, and in which a detachable wooden handle is employed.

My improvements are designed to render the combined smoothing and fluting iron more complete, and in which the smoothing-iron proper is united to the top fluting part by a plate-hinge, and for this purpose the base part has a raised point-seat for one leaf of the hinge, and also forms a cross-shoulder, against which the fluting top part abuts when closed, to serve as a bracing support for said leaf-hinge and as a means of bringing the fluted parts always in matching positions, and the confining-screw for these parts always in proper relation to the screw-hole in the base, so that there can be no lateral play of the fluting part, as with the ordinary point-hinge, and thus avoid much inconvenience in using the iron in fluting.

Referring to the drawings, Figure 1 represents my improved combined smoothing and fluting iron as used for fluting; Fig. 2, a vertical section of the same; Fig. 3, the detachable handle as used with a smoothing-iron only, and Fig. 4 the handle and its socketed plate separated.

The smoothing-iron proper, *a*, has the usual fluting top surface *b*, but is made with a flat raised point, *c*, which forms a shoulder, *d*, crossing the iron back of the point. The top part, *e*, has the usual fluting-surface *f* on its under side, and is hinged to the base at the cross-shoulder by a plate-hinge, *g*, one leaf of

which is screwed to the raised part *c*, and the other to the fluting part in the same plane, so as to bring the front end of the fluted part, when closed, snug against the cross-shoulder, thereby forming a brace to the hinge and insuring the matching of the fluting parts by preventing all lateral play of the top part in opening and closing it, and relieving all strain upon the hinge when ironing.

When used as a smoothing-iron the base and top are secured by a thumb-screw, *h*, passing through the top near the hinge at one side of the handle, and into a screw-hole, *h'*, in the base, and the cross-shoulder serves also to bring this screw always at the point to cause it to enter the screw-socket, thus avoiding an inconvenience incident to a loose point or pin hinge.

The fluting part is made with a dovetail recess, *i*, on its upper surface, to receive a correspondingly-formed handle-plate, *j*, to which a wooden handle, *k*, is secured, thereby adapting the combined device for use with a detachable handle. The handle being of wood, it is important that its connection with its dovetail plate should be durable and firm, and to effect this the handle-plate is made with socket-projections *l* at each end, and the wooden handle is formed with tenon ends *m m*, adapted to be firmly driven into said sockets and secured by screws *n n*, passing through said sockets into the tenons. These sockets serve to brace the handle, and to relieve the securing-screws of the strain and wear.

The handle is of suitable wood, and is formed by steaming and bending, or otherwise. The handle-plate is provided with a retaining device, consisting of a spring-plate, *p*, screwed at one end to said plate, and having a latch-point, *q*, at its free end, which, projecting through an opening in said plate, is adapted to take into and latch with a recess, *r*, in the surface of the recessed top part, to secure the handle in place when using the iron and allow it to be detached when heating the iron.

The spring-catch plate will become heated in using the iron, and as the catch is raised by the fingers to remove and replace the handle, I provide it with a wooden trigger, *s*, secured

to the free end of the spring, so that it can be taken hold of at all times without risk of burning the fingers or requiring the use of a cloth to unlatch it.

5 By this construction the handle and its retaining device are both isolated from their dovetail attachable plate, so that they will be comparatively cool, yet forming the handling connected parts.

10 As shown in Fig. 3, the handle and its retaining device may be used with a smoothing-iron only, and the dovetail recess in the latter may be formed by a raised rib.

15 The pin-jointed hinge shown gives a bearing for the top part equal to the width of the iron at that point, and the cross-shoulder forms a solid joining with the top part, so that there

is no strain upon the hinge in ironing, as the pressing shoving force is borne by the cross-shoulder.

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I claim—

In a combined smoothing and fluting iron, the base part having the raised point *c*, forming a cross-shoulder, *d*, in combination with the plate-hinge and the top fluting part, hinged 25 in relation to said shoulder, substantially as herein set forth.

In testimony that I claim the foregoing I have hereto affixed my signature in the presence of two witnesses.

WILLIAM S. OWEN.

Witnesses:

A. E. H. JOHNSON,

J. W. HAMILTON JOHNSON.