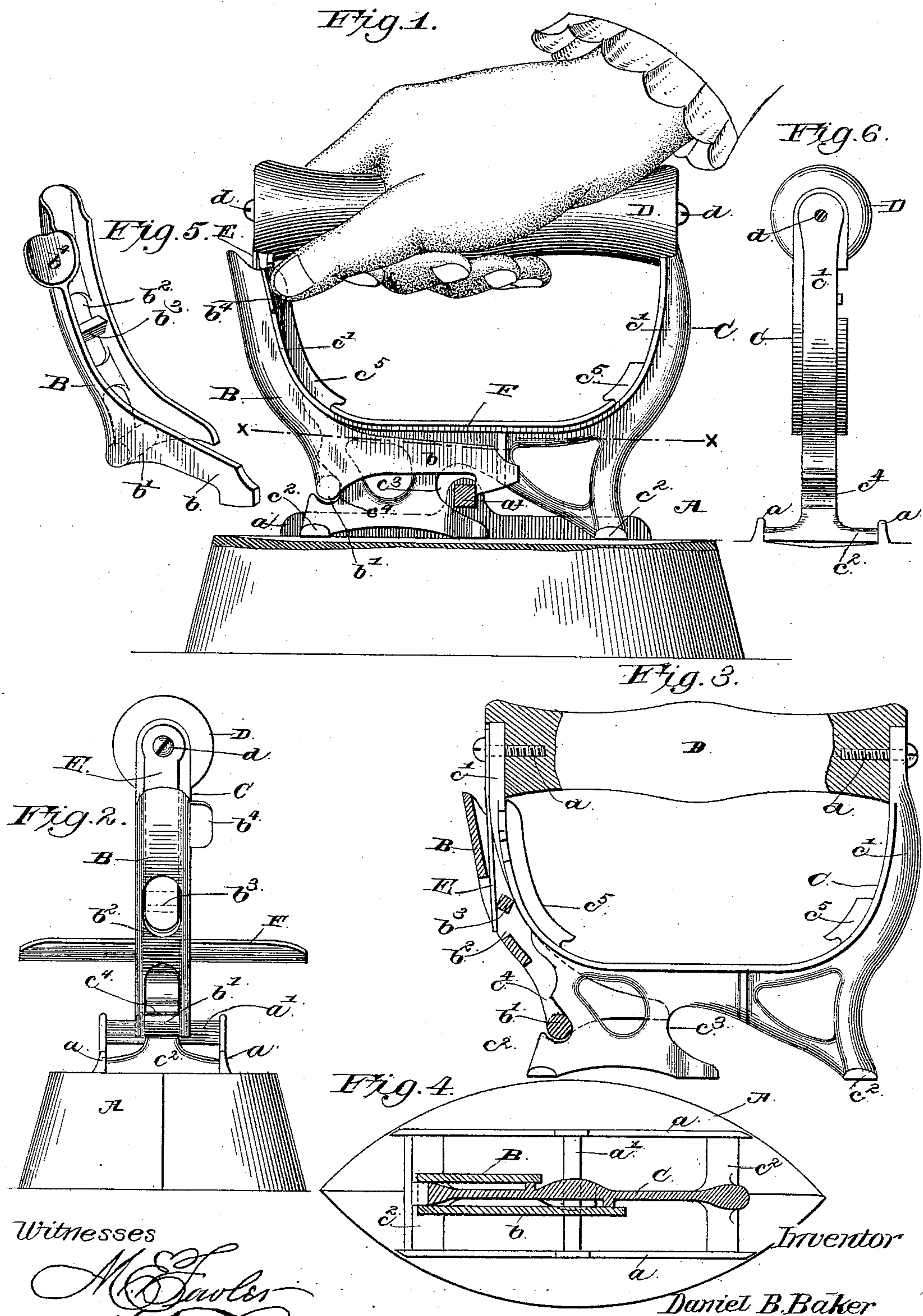


(No Model.)

D. B. BAKER.
SAD IRON.

No. 444,418.

Patented Jan. 13, 1891.



Witnesses

M. E. Fowler

H. J. Wiley

By his Attorneys.

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UNITED STATES PATENT OFFICE.

DANIEL B. BAKER, OF SAN JACINTO, CALIFORNIA.

SAD-IRON.

SPECIFICATION forming part of Letters Patent No. 444,418, dated January 13, 1891.

Application filed July 12, 1889. Serial No. 317,350. (No model.)

To all whom it may concern:

Be it known that I, DANIEL B. BAKER, a citizen of the United States, residing at San Jacinto, in the county of San Diego and State of California, have invented a new and useful Sad-Iron, of which the following is a specification.

The invention relates to improvements in sad-irons.

The object of my invention is to provide the curved iron-frame with an operating-lever having a thumb-piece terminating directly beneath the wooden hand-hold and in close proximity to the thumb, said lever extending to a central lift-bar on the iron with a locking-pawl at its lower point.

A further object of this invention is to make said lever conform to the configuration of the curved iron-frame and bring it within easy reach; also to make the whole handle novel, neat, and convenient.

Another object in making the lever and frame contiguous and compact is that there is less liability to breakage in shipping, whereas if the lever stands out separate and apart from the iron-frame breakages are very liable to occur.

The invention consists in the improved construction and arrangement of parts herein-after set forth and claimed.

In the drawings, Figure 1 is a side elevation of a sad-iron embodying the invention. Fig. 2 is an end elevation. Fig. 3 is a side elevation of the handle-frame, the ends of the handle and the operating-lever being shown in section. Fig. 4 is a horizontal sectional view, section being taken on the line $x x$ of Fig. 1. Fig. 5 is a detail perspective view of the operating-lever. Fig. 6 is an end elevation of the handle-frame.

Referring to the accompanying drawings, A designates an iron, which is provided upon its upper face with parallel flanges a , which rise intermediate of their ends and form lugs which have formed integral with them a central lift-bar a' .

The lift-bar a' is adapted to be engaged by a locking-pawl b , situated at the end of a locking-lever B, which is pivoted to a handle-frame C. This handle-frame C has curved arms c' , between the ends of which is secured a wooden handle D by means of screws d ,

which pass through perforations in the ends of the arms c' . The lower portion of the frame is provided with feet c^2 , which elevate the handle-frame and enable the operating-lever to conform to the frame, and which are situated at each end and rest upon the iron A between the flanges a , and the said lower portion has intermediate of the ends an inclined opening c^3 , which receives the central lift-bar a' , which is retained in said opening by the locking-pawl b at the end of the operating-lever B.

The operating-lever B conforms to the configuration of the curved arm of the handle-frame and fits closely thereto, being normally retained in that position by the spring E, which also holds the pawl b in engagement with the lift-bar a' , and which is secured to the handle-frame C by one of the screws d , and the said lever is provided at its lower end with two arms which straddle the bottom portion of the handle-frame and prevent lateral movement of the lever. The ends of the arms bear against ribs of the frame and the friction of the parts is thereby reduced. One of the arms acts as a guide and the other arm is formed into the pawl b . The lever B about midway its length is provided with a round cross-bar b' , which has its bearing in the curved recess c^4 , whereby the operating-lever B is pivoted to the frame C. The sides of the recess c^4 are inclined, and they aid the spring E in keeping the pivot-bar b' in its bearing. An opening b^2 is provided near the upper end of the lever B, and has a cross-piece b^3 , against which bears the free end of the spring E. The lever B has upon one of its sides a thumb-piece b^4 , which lies just beneath the handle D, within easy reach of the thumb, as clearly illustrated in Fig. 1 of the accompanying drawings.

On the inner faces of the curved arms c' are provided ribs c^5 , between which are secured a sheet-metal shield F.

From the foregoing description and the accompanying drawings the construction, operation, and advantages of the invention will readily be understood.

What I claim is—

1. A sad-iron comprising the iron having a central lift-bar, the handle-frame provided with an opening to receive the lift-bar, and the

lever conforming to the configuration of the frame and being contiguous thereto and having its lower end formed into two arms straddling the bottom of the handle-frame, one of the arms forming a locking-pawl arranged to engage the lift-bar and retain the latter in said opening, substantially as described.

2. A sad-iron comprising an iron provided with a central lift-bar, the handle-frame having a handle and provided with an opening to receive the lift-bar, and having depending feet which elevate the bottom of the handle-frame above the iron, and the lever conforming to the configuration of the frame and having its lower end provided with arms which straddle the bottom of the handle-frame, one of which arms engages the central lift-bar, said lever being provided with a thumb-piece beneath the handle, substantially as described.

3. A sad-iron comprising the iron having the central lift-bar, the handle-frame having the opening c^3 to receive the central lift-bar and provided with a recess c^4 , and the lever conforming to the configuration of the frame and having the pivot-bar b' , arranged in the recess c^4 and provided with arms which straddle the handle-frame, one of said arms forming a pawl engaging the central lift-bar, substantially as described.

4. In a sad-iron of that class in which the handle grapples the iron at the center, the iron having the central lift-bar a' , the sad-

iron handle composed of a straight handle and curved open frame and having the opening c^3 , and the operating-lever curved to conform to the shape of the curved frame and extending down one end and provided with arms which straddle and extend part way along the bottom of the frame, one of said arms terminating above the central lift-bar of the iron in a locking-pawl to engage said lift-bar, and the other arm serving as a guide to prevent lateral movement of the lever, the upper end of the operating-lever terminating in a thumb-piece which lies directly beneath the handle, substantially as described.

5. A sad iron comprising the iron having parallel ridges extending throughout the length of the iron and provided with lugs and a central lift-bar connecting the lugs, the handle-frame having the opening c^3 and provided with feet which elevate each end and extend across the space between the ridges and bear against the latter, and the lever journaled in the frame and having its lower end straddling the handle-frame and engaging the central lift-bar, substantially as described.

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

DANIEL B. BAKER.

Witnesses:

FRANK S. RYAN,
LEWIS H. TOBEY.