

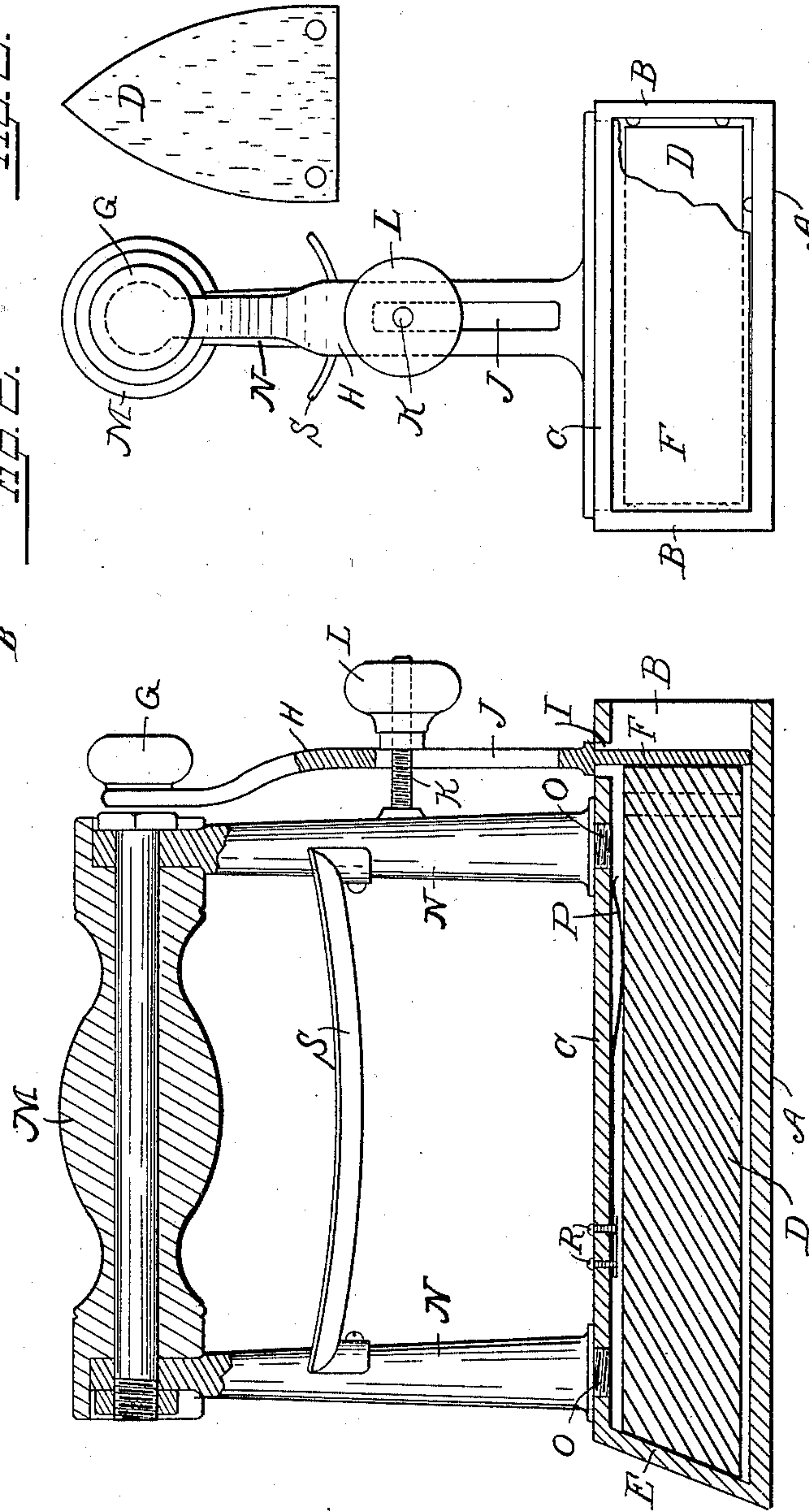
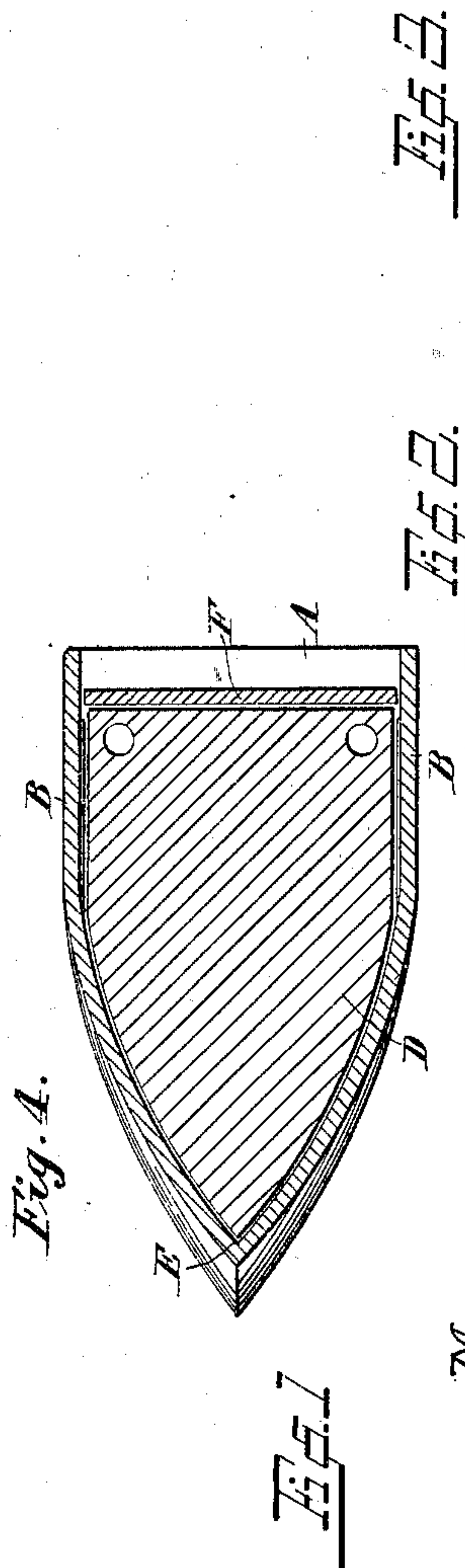
No. 702,422.

Patented June 17, 1902.

H. GRABIN.
SAD IRON.

(Application filed Dec. 24, 1901.)

(No Model.)



WITNESSES:

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HARRY GRABIN, OF MILWAUKEE, WISCONSIN.

SAD-IRON.

SPECIFICATION forming part of Letters Patent No. 702,422, dated June 17, 1902.

Application filed December 24, 1901. Serial No. 87,094. (No model.)

To all whom it may concern:

Be it known that I, HARRY GRABIN, a citizen of the United States, residing at Milwaukee, county of Milwaukee, and State of Wisconsin, have invented new and useful Improvements in Sad-Irons, of which the following is a specification.

My invention relates to that class of sad-irons in which the smoothing-block consists of a hollow shell which is adapted to be heated from its interior by a metallic heating-core, which core may be heated in the combustion-chamber of a stove or furnace preparatory to be inserted in said shell; and my invention pertains more especially to the means for inclosing said heating-core within the chamber and for holding the same rigidly in place, whereby it is prevented from rattling as the iron is being used.

The construction of my invention is explained by reference to the accompanying drawings, in which—

Figure 1 represents a longitudinal vertical section of the invention. Fig. 2 represents an end view. Fig. 3 is a bottom view of the core. Fig. 4 is a sectional plan view of the iron.

Like parts are identified by the same reference-letters throughout the several views.

The shell which forms the smoothing-block consists of the horizontal smoothing-surface A, side walls B B, and top or upper wall C, all of which parts are cast integral from iron, brass, or other metal.

D is the heating-core, which is preferably tapered forwardly and downwardly at its front end to conform to the front end E of the inclosing shell, whereby as said heating-core D is forced forwardly against said front end E it will impinge against the same and be prevented from moving in any direction. The core D is held firmly in place against the converging side walls B B and the angular surface of the front end E of the shell by contact with the sliding door F, which door is provided with a handle G and a connecting-bar H.

An aperture I is provided in the upper wall C of the shell for the reception of said door F, which permits said door to be raised or lowered when desirous to insert or withdraw the heating-core. The bar H is provided with a longitudinal slot J for the reception of the screw K, by which said bar H is guided as said door is raised and lowered.

L is a hand-nut which has screw-threaded engagement with the bolt K and is adapted to be turned down on said bolt against said bar H, whereby the door F is not only locked in its closed position, but is also forced forwardly against the heating-core D, whereby said core is caused to impinge firmly against its bearings and is held in place, as previously stated.

M is the operating-handle, which is preferably formed of wood. The handle M is connected with the shell of the sad-iron by the vertical metallic standards N N, which standards have screw-threaded studs O at their base in engagement with threaded-openings in the upper wall of the core-inclosing case.

To prevent the rear end of the heating-core from moving vertically as the iron is being used, I have provided a bearing-spring P, which is rigidly affixed at one end to the wall C by the rivets or bolts R. S is a shield for protecting the operator's hands.

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

In a sad-iron, the combination of a metallic shell provided with a smoothing-surface, and having its side walls converging forwardly and its front end inclining downwardly toward a common center; a heating-core located in, and conforming in shape to, the interior shape of said shell; a vertically-slidable door having bearings in said shell; a connecting-bar secured to the upper side of said door, provided with an elongated aperture and an operating-handle; a horizontal screw rigidly affixed at one end to one of the handle-supporting standards of said sad-iron, and having its opposite end projecting through the elongated slot of said connecting-bar; a hand-nut operating on said screw, and adapted, as it is turned forward thereon, to force said door against the rear end of said heating-core and said core against the front end of said shell, whereby said core is retained in place and prevented from rattling, all substantially as and for the purpose specified.

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

HARRY GRABIN.

Witnesses:

JAS. B. ERWIN,
F. A. OTTO.