

J. M. HARPER.

SAD IRON.

APPLICATION FILED FEB. 28, 1907.

951,438.

Patented Mar. 8, 1910.

Fig. 1.

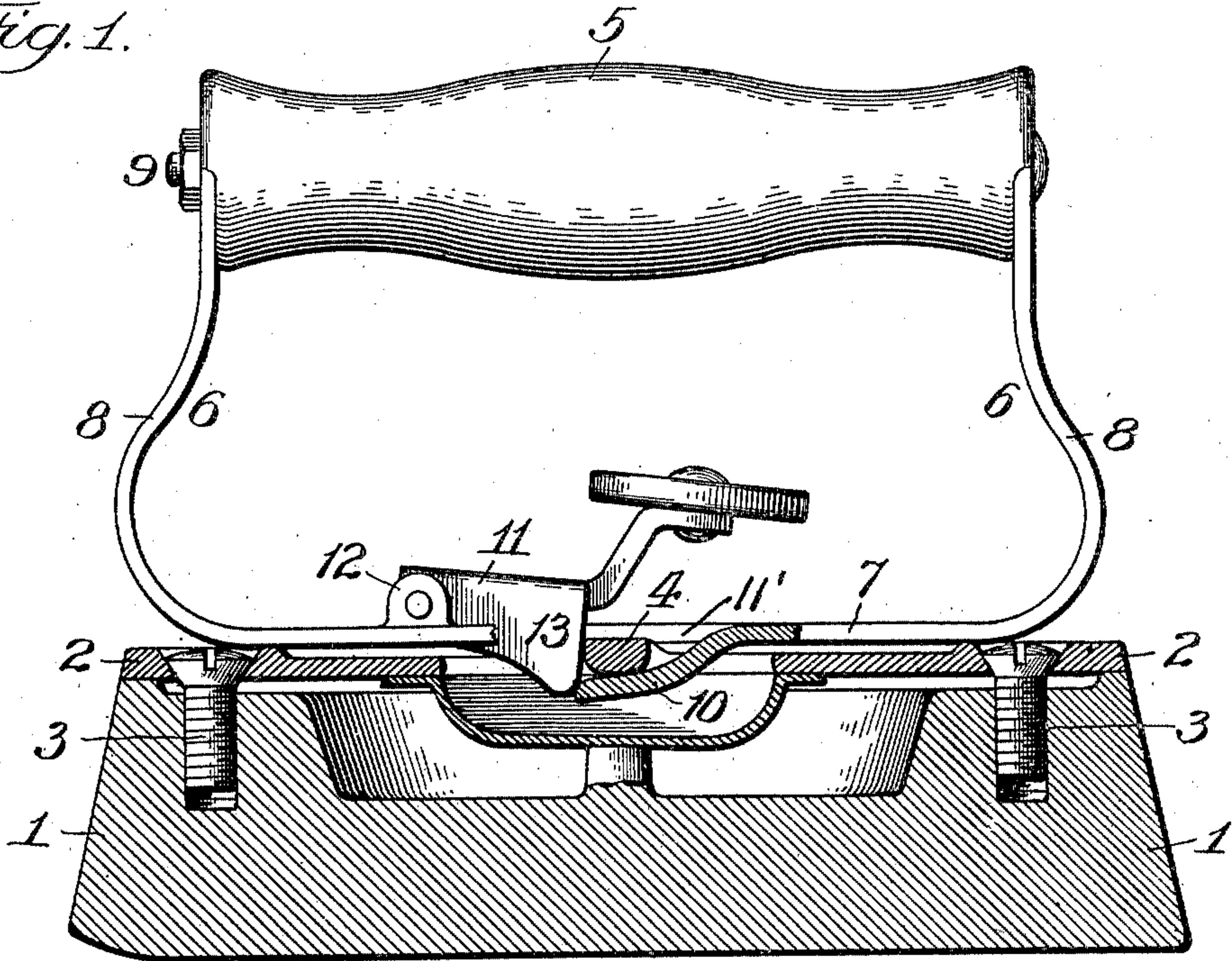


Fig. 2.

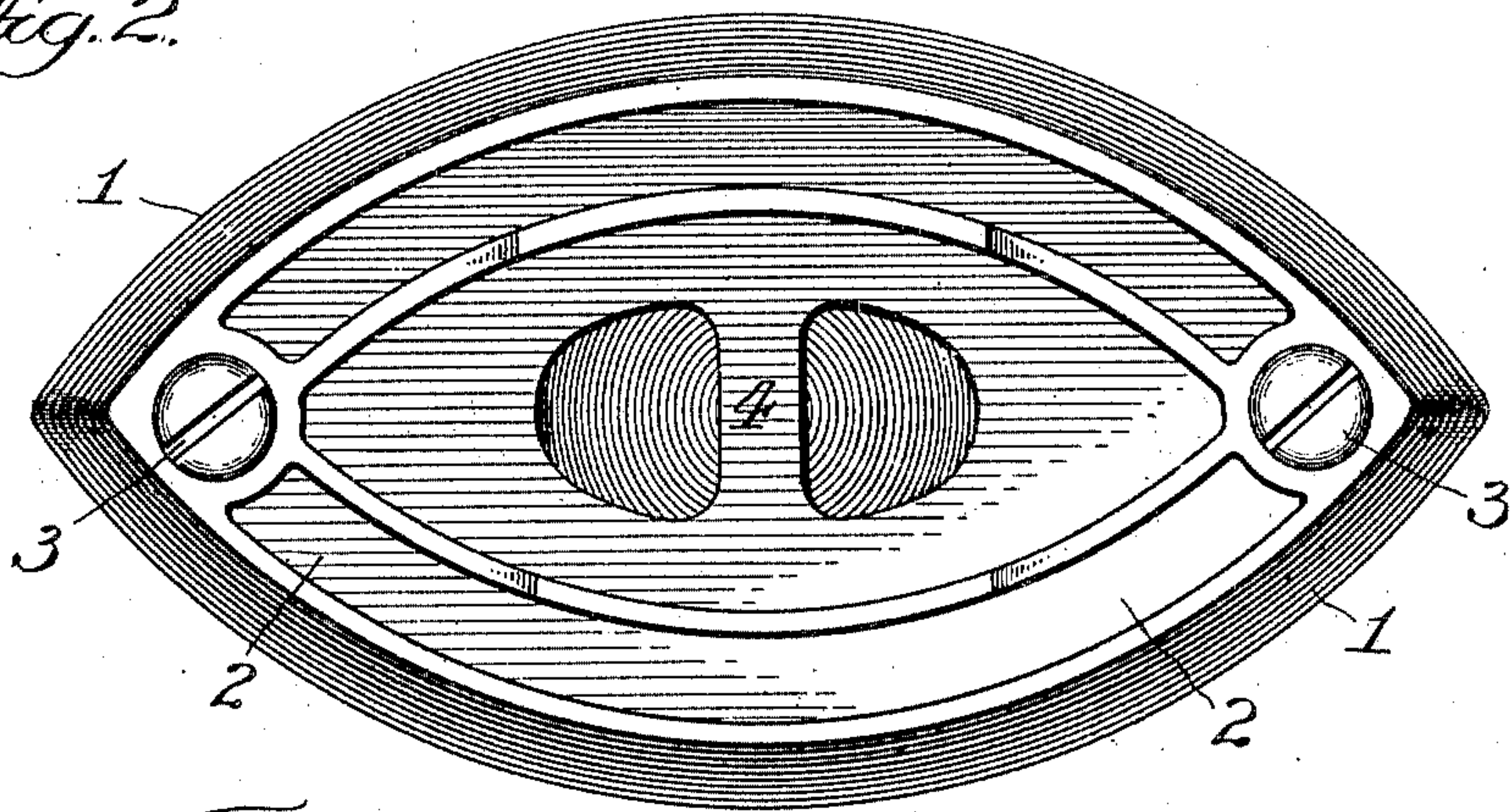
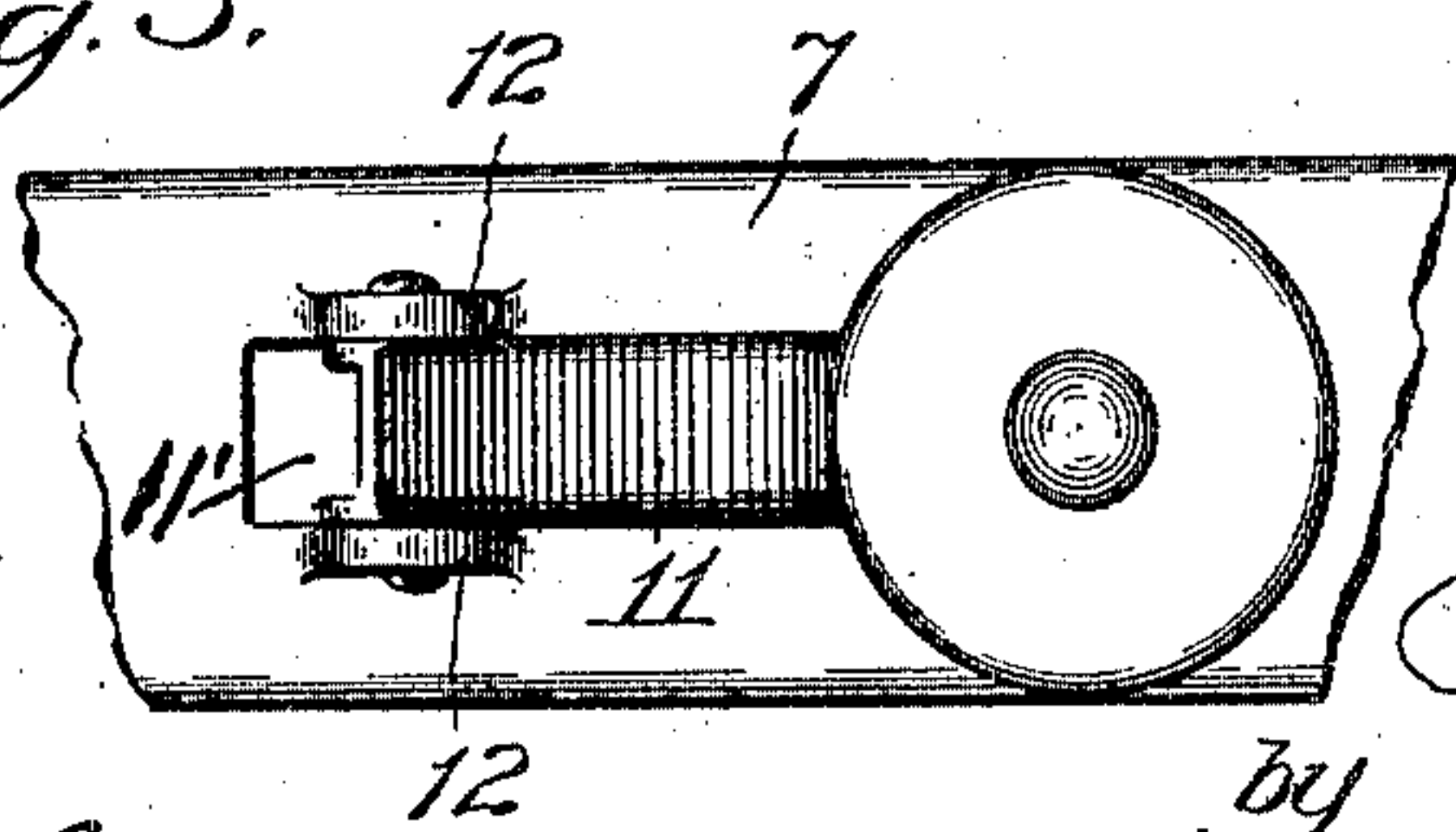


Fig. 3.



Attest:

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# UNITED STATES PATENT OFFICE.

JAMES M. HARPER, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE HARPER SUPPLY COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

SAD-IRON.

951,438.

Specification of Letters Patent.

Patented Mar. 8, 1910.

Application filed February 23, 1907. Serial No. 359,771.

*To all whom it may concern:*

Be it known that I, JAMES M. HARPER, a citizen of the United States of America, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Sad-Irons, of which the following is a specification.

This invention relates to that type of sad-irons in which the handle portion is connected in a readily detachable manner to the main body. And the present improvement has for its object to provide a simple and efficient structural formation and combination of parts adapted to afford a safe and substantial connection between the handle and body of a sad-iron, all as will hereinafter more fully appear.

In the accompanying drawings:—Figure 1, is a longitudinal sectional elevation of a sad-iron embodying the present invention. Fig. 2 is a top view of the body portion, the handle portion being removed. Fig. 3 is a detail plan view of the movable latch member carried by the handle portion.

Similar numerals of reference indicate like parts in the different views.

Referring to the drawings, 1 represents the main sad-iron body usually of cast iron and having its top part recessed out to form an open top cavity as shown.

2, is a plate secured to the top of the body 1 by screws 3, so as to be a fixture thereon and afford a finish thereto; such plate is formed with an open central portion across which is arranged a transverse bar 4, the location of which is midway the length of the sad-iron body 1.

5, is the main portion of the sad-iron handle, of a substantially cylindrical form arranged longitudinally and formed of wood or like non-conducting material.

6, is an intermediate portion of the handle formed of wrought metal and consisting of a main longitudinal member 7 having angular end extensions 8, the upper ends of which are permanently attached to the respective ends of the main handle portion 5 by a longitudinal bolt 9, as shown.

10, is a depending prong upon the underside of the member 7 near the midlength thereof and arranged in separated relation thereto a distance approximating the depth of the transverse bar 4 aforesaid. The said

prong is formed by slitting the member 7 longitudinally and transversely to form a tongue which is then bent down to constitute said prong, and as so formed is adapted to be inserted beneath the transverse bar 4 as shown. Said prong being of wrought metal is capable of being readily bent to and from the main member 7 to compensate for varying depths in the transverse bar 4, to provide in a ready and economical manner a close and effective engagement of the prong beneath the bar when the handle is engaged with the sad-iron body for actual use. And to such end the free portion of the prong will extend horizontally beneath the transverse bars 4, with its point in the path of the free end of the gravity latch, hereinafter described, to form a stop therefor. The described construction is adapted to hold the detachable handle to the sad-iron body in the absence of the gravity latch piece from its locking position, and prevent accidental disengagement in the initial handling of the sad-iron previous to the movement of said latch piece into place.

11, is a gravity latch piece or dog pivoted at one end to the upwardly extending ears 12 on the longitudinal member 7 and moving in a longitudinal slot 11' therein as shown; such latch piece is formed with a curved free end 13 adapted to move into place against the bar 4 aforesaid to prevent an independent longitudinal movement between the handle and body of the sad-iron and the consequent disengagement of the holding prong 10 from beneath the transverse bar 4.

In the operation of effecting an engagement of the handle with the sad-iron body, the handle portion is placed upon the top of said body and moved along the same longitudinally to engage the prong 10 beneath the transverse bar 4, after which engagement the latch piece 11 drops by gravity in front of said bar to maintain the engagement of the parts. In effecting a disengagement of the handle from the sad-iron body, the latch piece is lifted from the described engagement with the transverse bar 4, and the handle moved longitudinally in a reverse direction to that above described to bring the prong 10 from under the bar 4, leaving the handle released for use upon a companion sad-iron body.

Having thus fully described my said in-



vention what I claim as new and desire to secure by Letters Patent, is:—

The combination of a sad-iron body provided with a central recess and a transverse  
5 bar arranged at the upper portion of said recess, a handle having a longitudinally extending attaching portion formed of ductile metal slitted midway of its length to provide  
10 a depending prong adapted for engagement beneath the aforesaid transverse bar, and a gravity latch-piece pivotally connected to

said attaching portion and adapted for engagement against said transverse bar, the said prong having a free end extending horizontally beneath said bar with its forward point forming a stop for the latch piece.

Signed at Chicago, Illinois, this 23rd day of February 1907.

JAMES M. HARPER.

Witnesses:

ROBERT BURNS,  
HENRY MOE.