

No. 864,734.

PATENTED AUG. 27, 1907.

J. M. HARPER.

SAD IRON.

APPLICATION FILED JAN. 29, 1906.

Fig. 1.

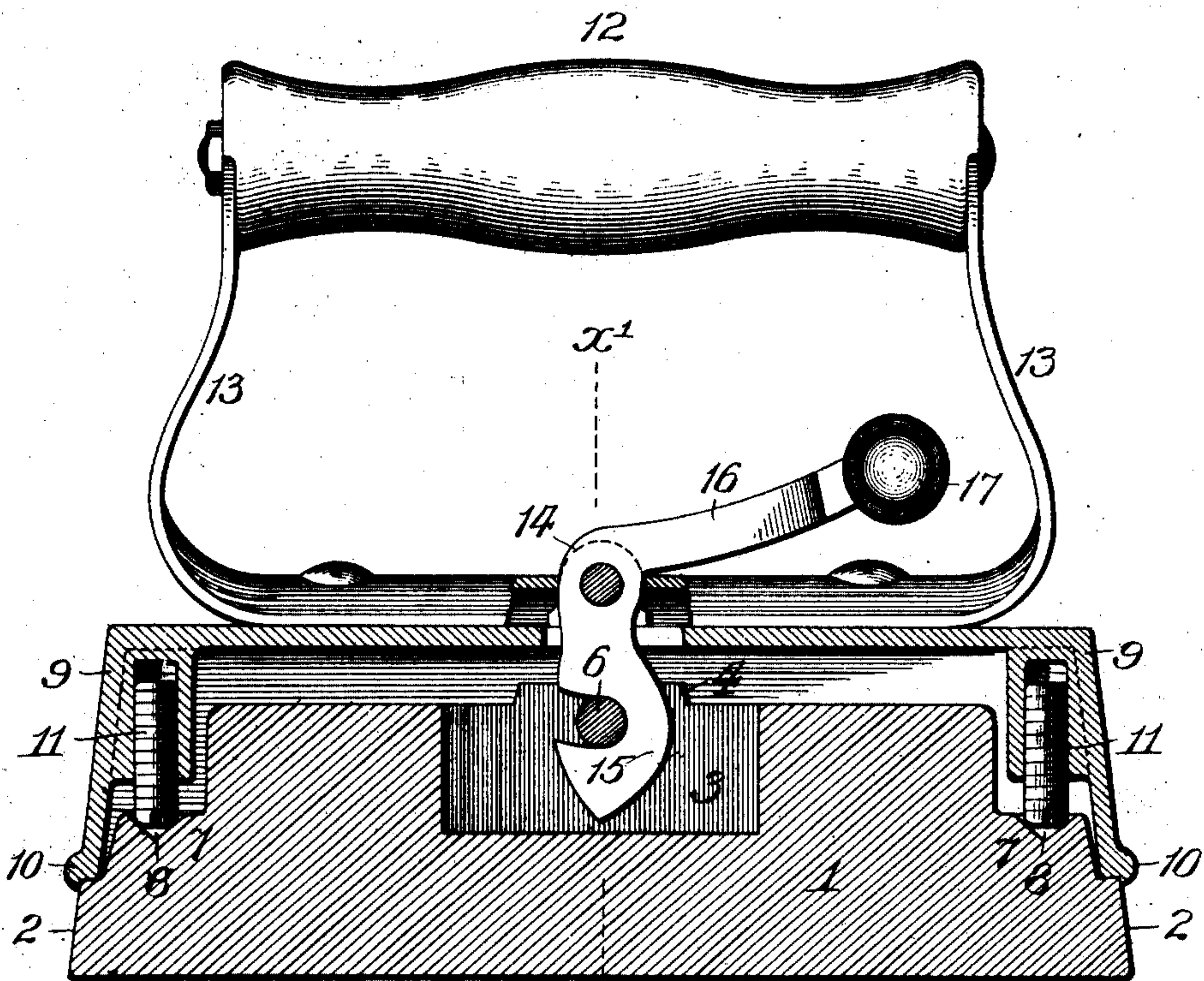


Fig. 4.

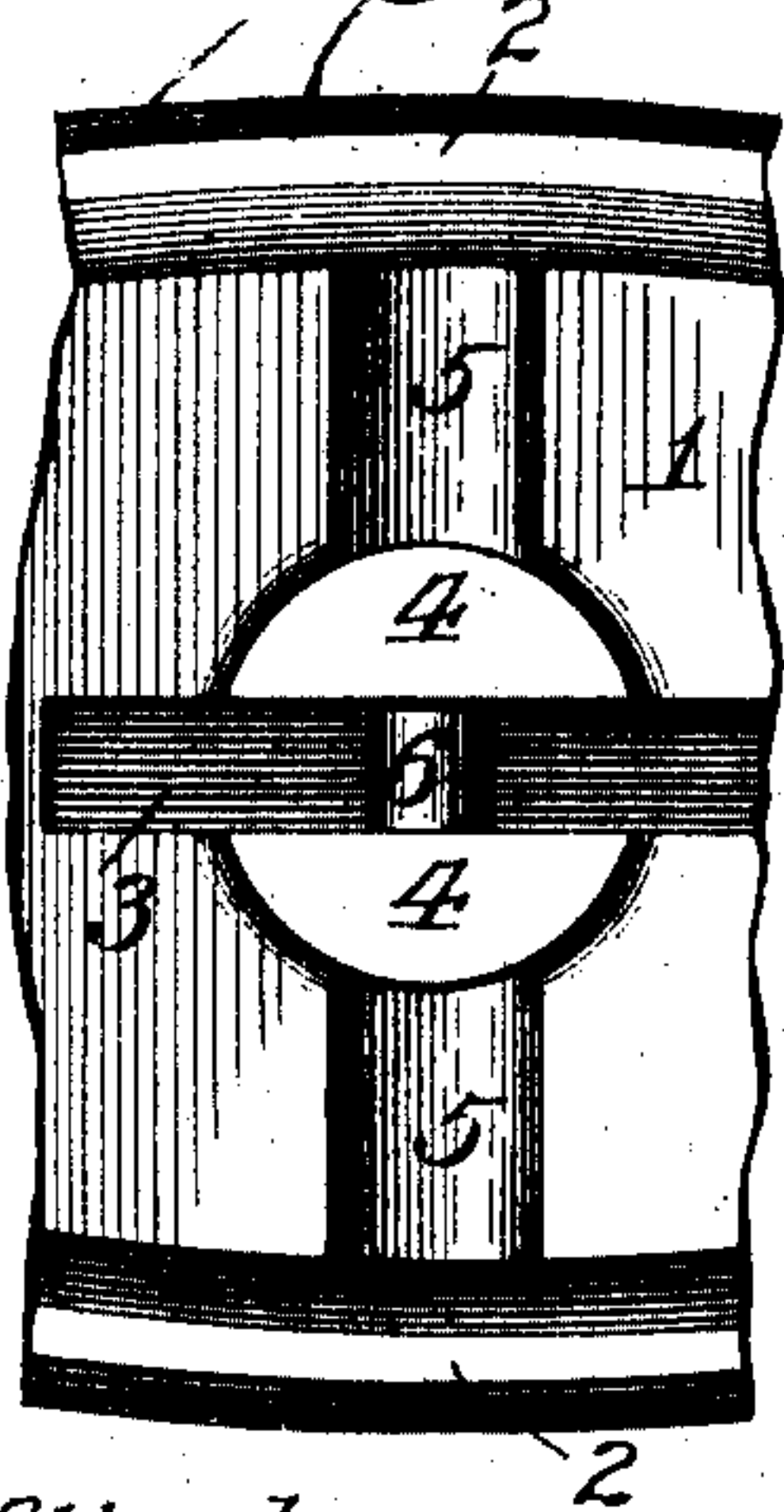


Fig. 2.

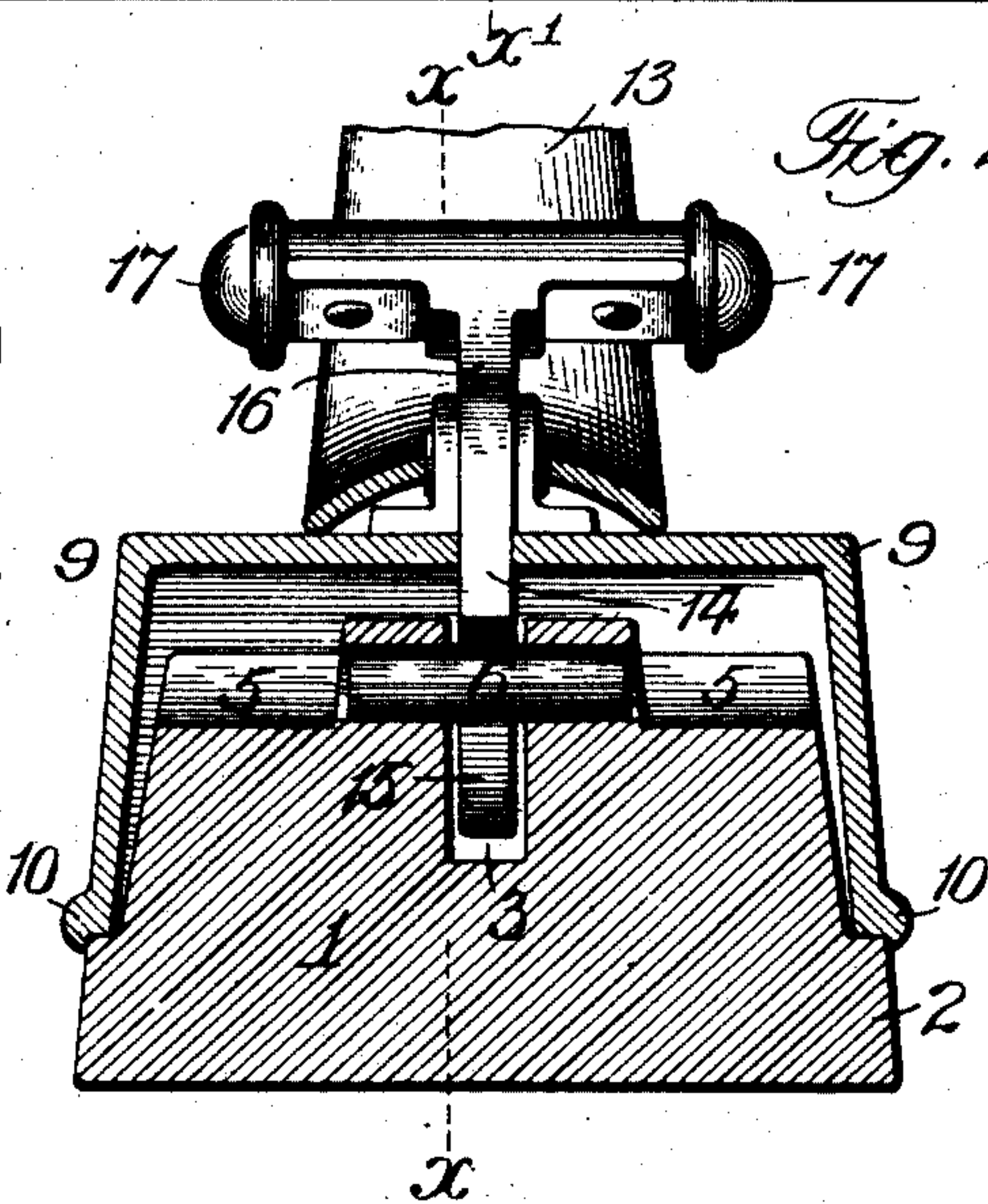
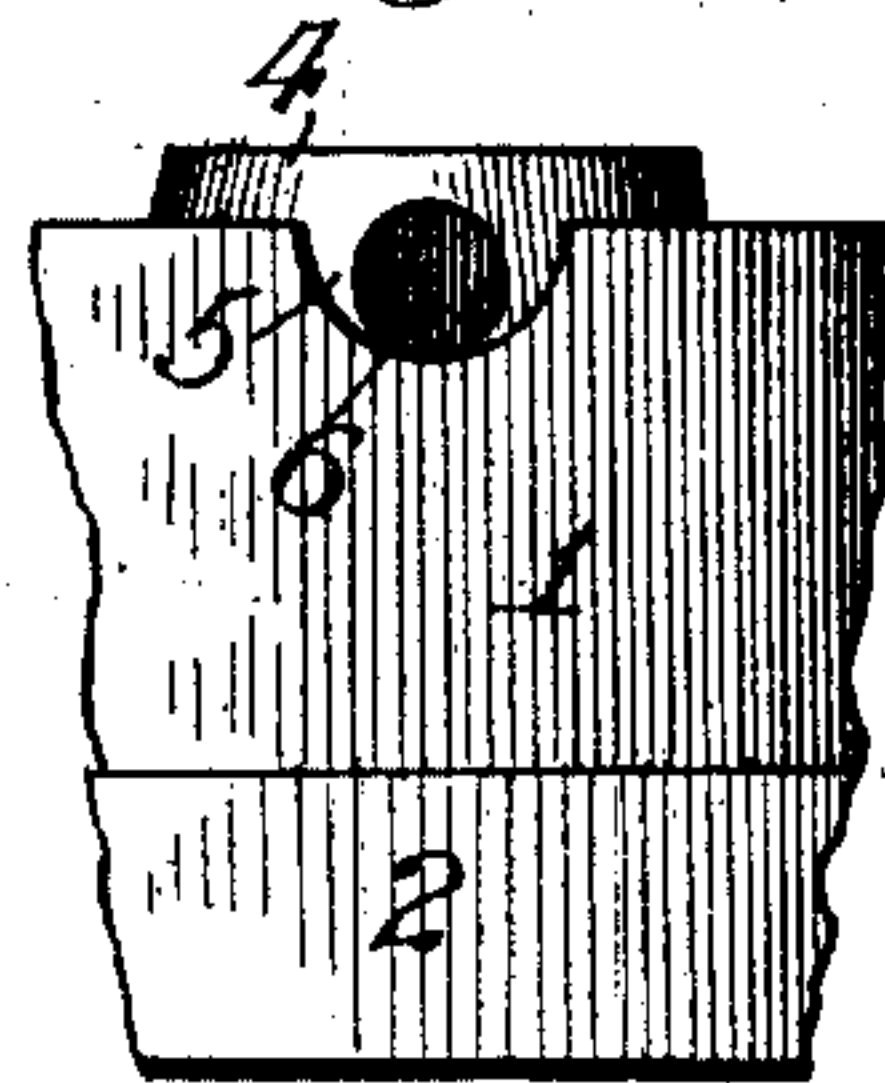


Fig. 3.



Attest:
John Enderis.
M. H. Holmes

Inventor:
James M. Harper,
by Robert Burns
Attorney.

UNITED STATES PATENT OFFICE.

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

SAD-IRON.

No. 864,734.

Specification of Letters Patent.

Patented Aug. 27, 1907.

Application filed January 29, 1906. Serial No. 298,363.

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
5 certain new and useful Improvements in Sad-Irons, of which the following is a specification.

This invention relates to that class of sad-irons in which the handle portion is made detachable from the main body of the sad-iron in order that the handle portion may be used successively with a series of sad-iron
10 bodies forming a set.

Various objects of the present improvement are as follows;—to provide a simple and effective structural formation of parts whereby an economical finish of a
15 set of sad-irons is attained with a reduction of the amount of finish required on the set; to provide a simple and efficient latch mechanism for securing the handle portion to the body portion of the sad-iron, and to provide in connection with such mechanism, means for adjusting
20 the relation of the handle portion to the body portion and so that proper engagement of the latch parts is had, and looseness avoided, all as will hereinafter more fully appear.

In the accompanying drawings:—Figure 1 is a longitudinal section on line $x-x$ Fig. 2 of a sad-iron embodying the present invention. Fig. 2 is a transverse
25 section of the same, on line $x'-x'$ Fig. 1. Fig. 3 is a fragmentary side elevation of the central part of the sad-iron body. Fig. 4 is a fragmentary plan view of the
30 same.

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

Referring to the drawings:—1 is the sad-iron body formed with a marginal ledge 2, which extends up a
35 short distance from the bottom of said body as usual, and has a plane surface capable of receiving an easy and economical finish.

3 is a longitudinal central recess in the top surface of the body 1, in which the movable hook member of
40 the latch mechanism, hereinafter described, has movement.

4 is a vertical projection having a central arrangement both longitudinally and transversely on the top of the sad-iron body, such projection being centrally in-
45 tersected by the longitudinal recess aforesaid.

5 are transverse channels formed in the top of the body 1, mid-length of the same, and extending from the aforesaid projection 4 to the side margins of the body, as
illustrated in Figs. 3 and 4.

6 is a transverse pin crossing the longitudinal recess 3, aforesaid, with its ends arranged in alined orifices in the walls of said recess; such orifices are alined with the

transverse channels 5 in order that said pin may be driven into place in an assemblage of the parts.

7 are bearing steps at each end of the body 1, formed
55 by offsets in the same, as shown, and such steps are preferably formed with centrally arranged conical recesses 8 for the purpose hereinafter stated.

9 is a cap piece fitting over the body 1 to inclose the portion of the same above the ledge 2 thereof; such cap
60 piece is formed with an enlargement or bead 10, at its lower margin adapted to cover the seam between said body and cap and at the same time afford a finished appearance to the article as a whole.

11 are screws arranged vertically near the respective
65 ends of the cap piece 9 and in vertical alinement with the before described conical recesses 8 of the body 1, with their lower ends resting in said recesses; such screws are capable of independent adjustment and are adapted to regulate the vertical relation of the cap
70 piece 9 to the body 1 so that a close fit of the latch mechanism, hereinafter described, will be attained, and looseness between the parts avoided.

12 is a longitudinal handle or grip connected in a fixed manner to the cap piece 9 by means of an inter-
75 mediate yoke piece 13, as usual in the present type of sad-irons.

14 is the movable member of the latch mechanism, before referred to; such movable member is pivoted to the cap piece 9, at the mid-length of the same, its lower
80 end consisting of a depending hook shaped portion 15, adapted to enter the longitudinal recess 3 in the body 1 and have engagement with the transverse pin 6 thereof, as illustrated in Figs. 1 and 2; the upper portion of the movable member is in the form of a bar 16, having
85 angular relation to the hook shaped portion 15, and attached at its free end to a transverse bar or handle 17, as shown.

Having thus fully described my said invention, what I claim as new and desire to secure by Letters Patent, 90
is:—

1. The combination of a sad-iron body provided with offset portions at its respective ends, a handled cap piece fitting the top of said body, adjustable abutments between
95 said offsets and the cap, and means for detachably connecting said cap and body together.

2. The combination of a sad-iron body provided with offset portions at its respective ends, a handled cap piece fitting the top of said body, vertical screws forming adjustable abutments between said offsets and the cap, and
100 means for detachably connecting said cap and body together.

3. The combination of a sad-iron body provided with offset portions at its respective ends, said offsets having central conical recesses, a handled cap-piece fitting the
105 top of said body, adjustable abutments between said off-

sets and the cap, and means for detachably connecting said cap and body together.

4. The combination of a sad-iron body formed with a raised central projection, a central longitudinal recess
5 intersecting said projection, transverse channels at either side of said projection and with transverse orifices in line with said channels, a transverse pin arranged in said orifices and intersecting the aforesaid longitudinal recess to constitute the fixed member of the latch mechanism, a
10 handled cap piece, and a movable latch member pivoted

to the cap piece and having a depending hook shaped portion for engagement with said pin, and an inclined upper portion the free end of which carries a transverse handle.

Signed at Chicago, Illinois, this 18th day of January 1906.

JAMES M. HARPER.

Witnesses:

ROBERT BURNS,
M. H. HOLMES.