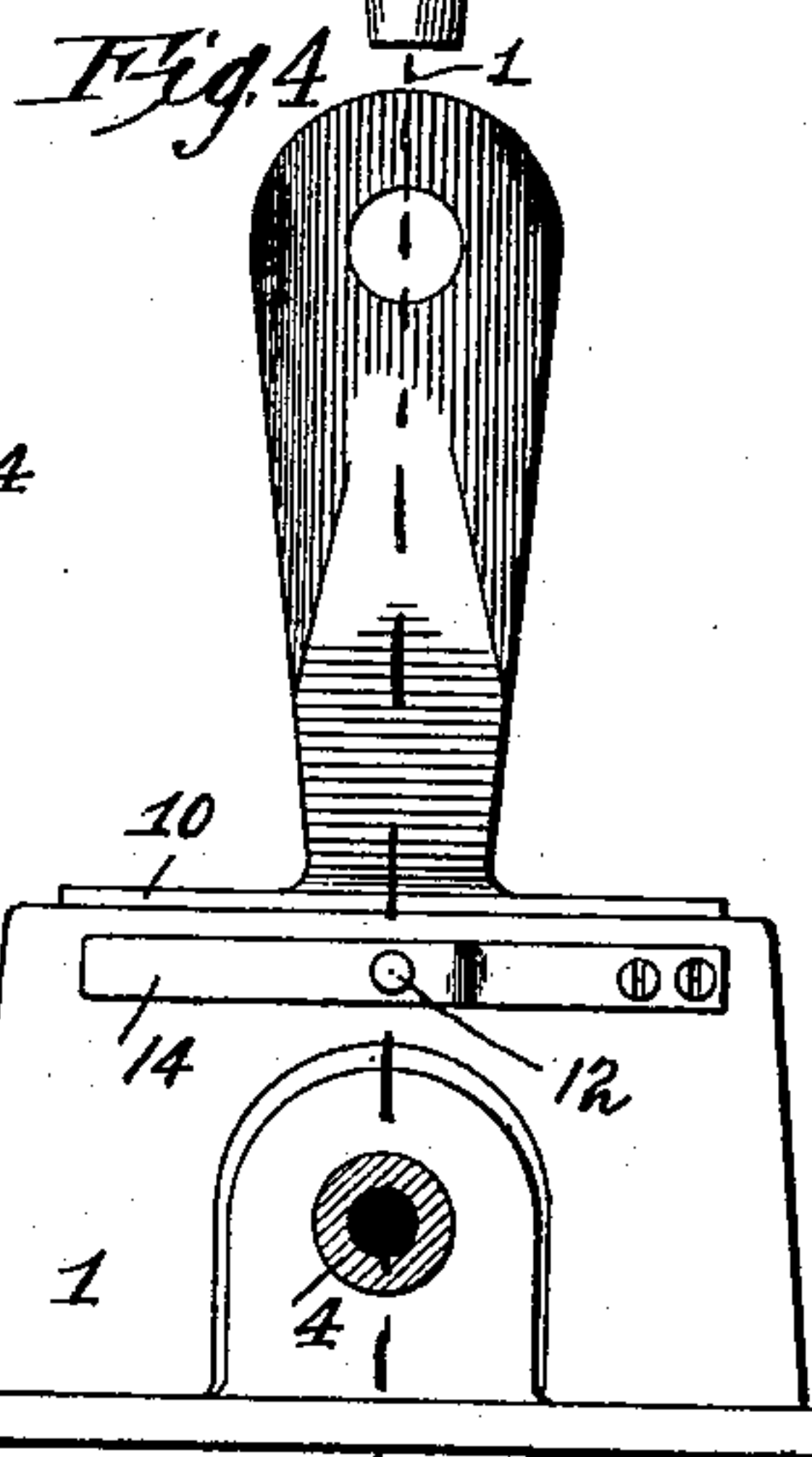
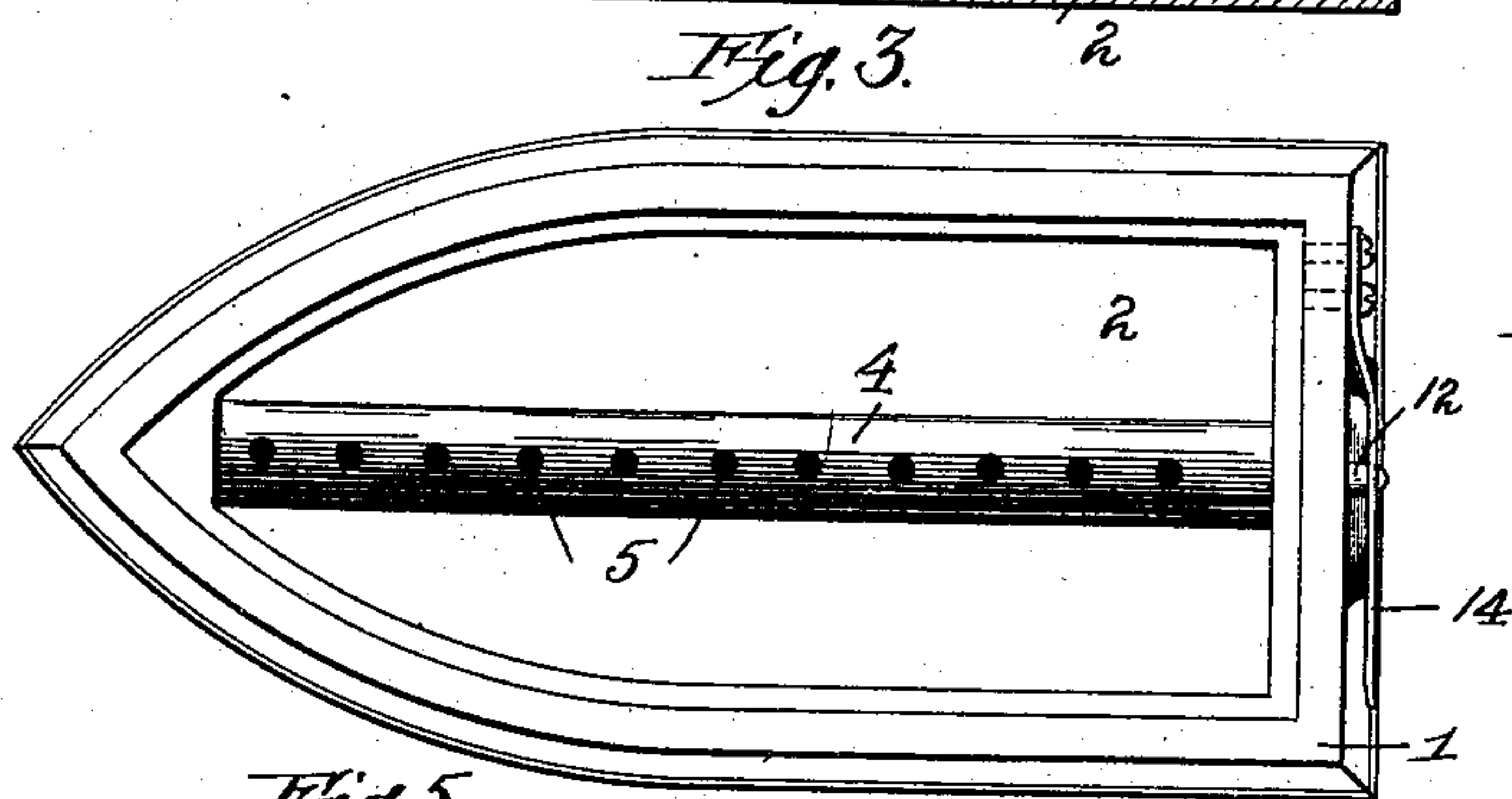
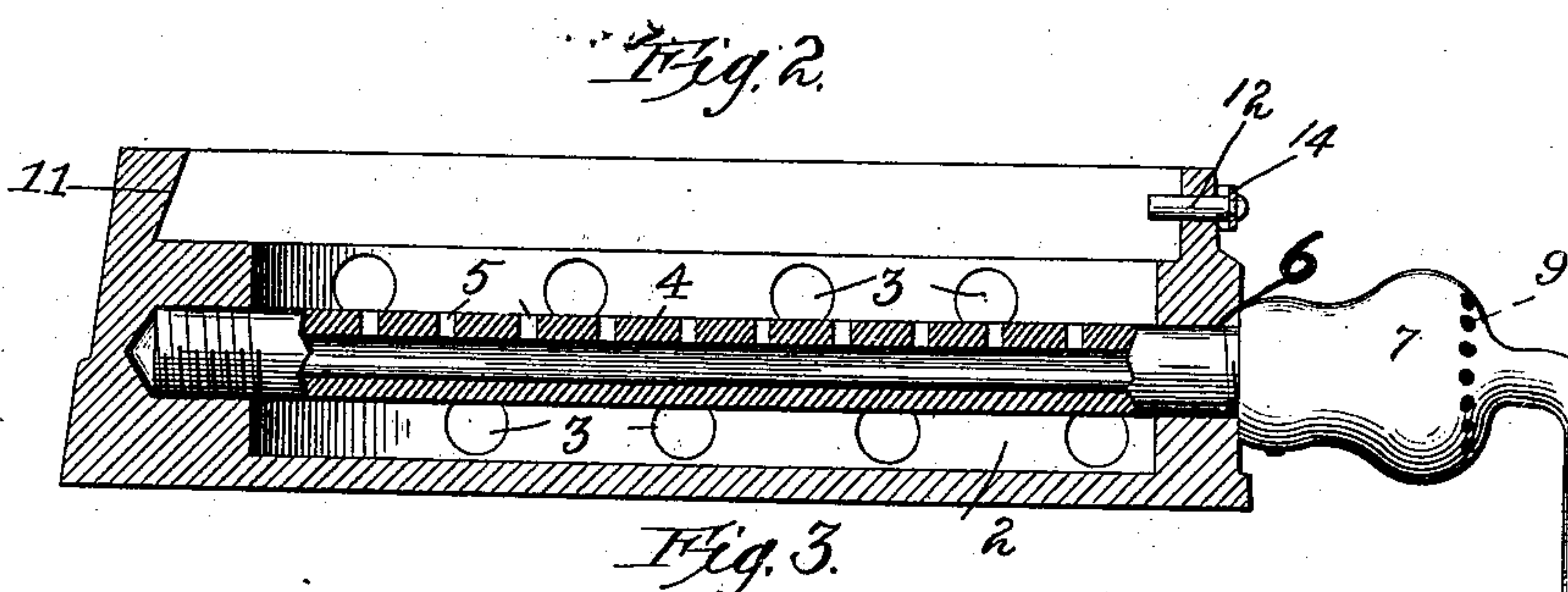
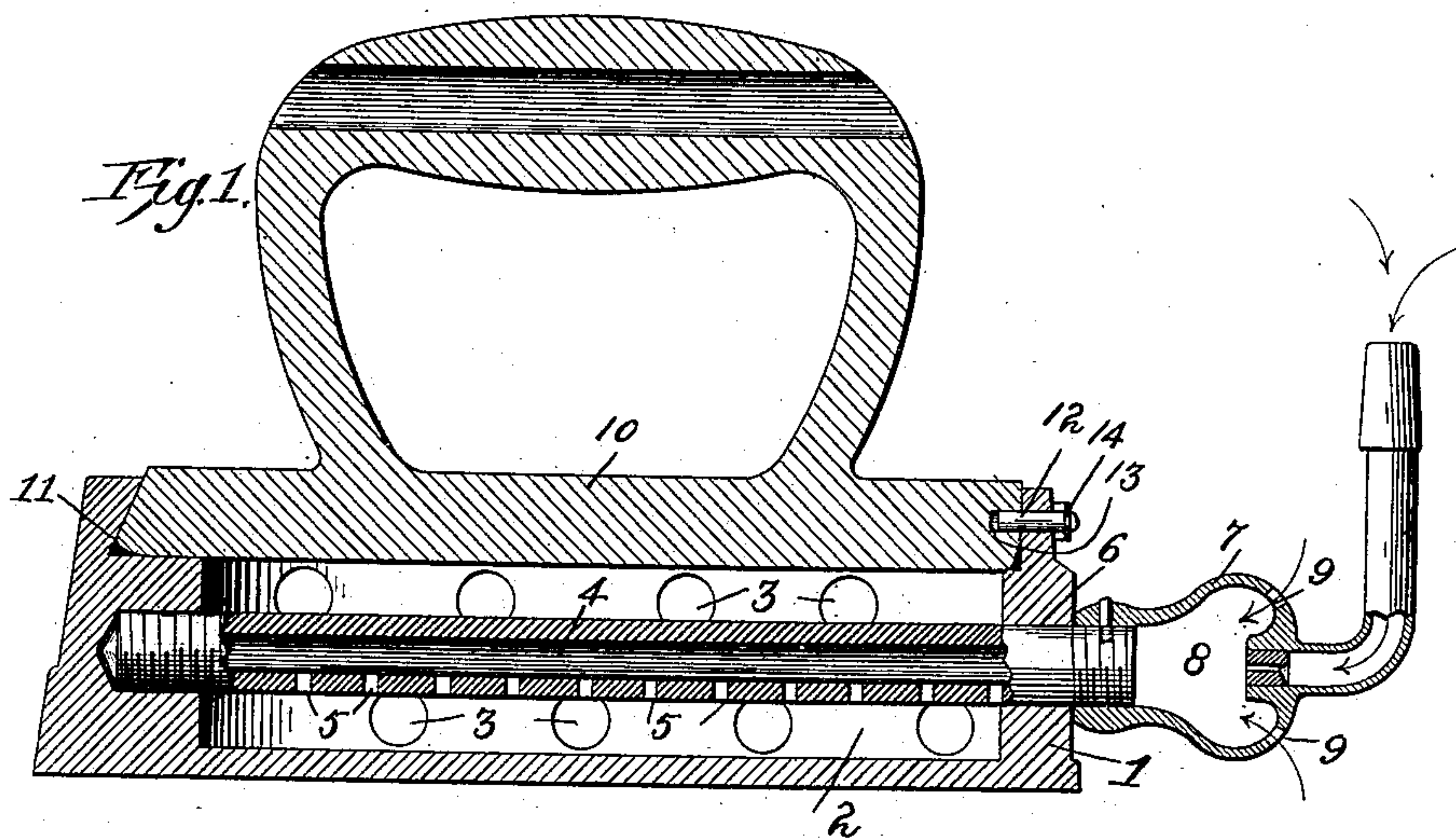


(No Model.)

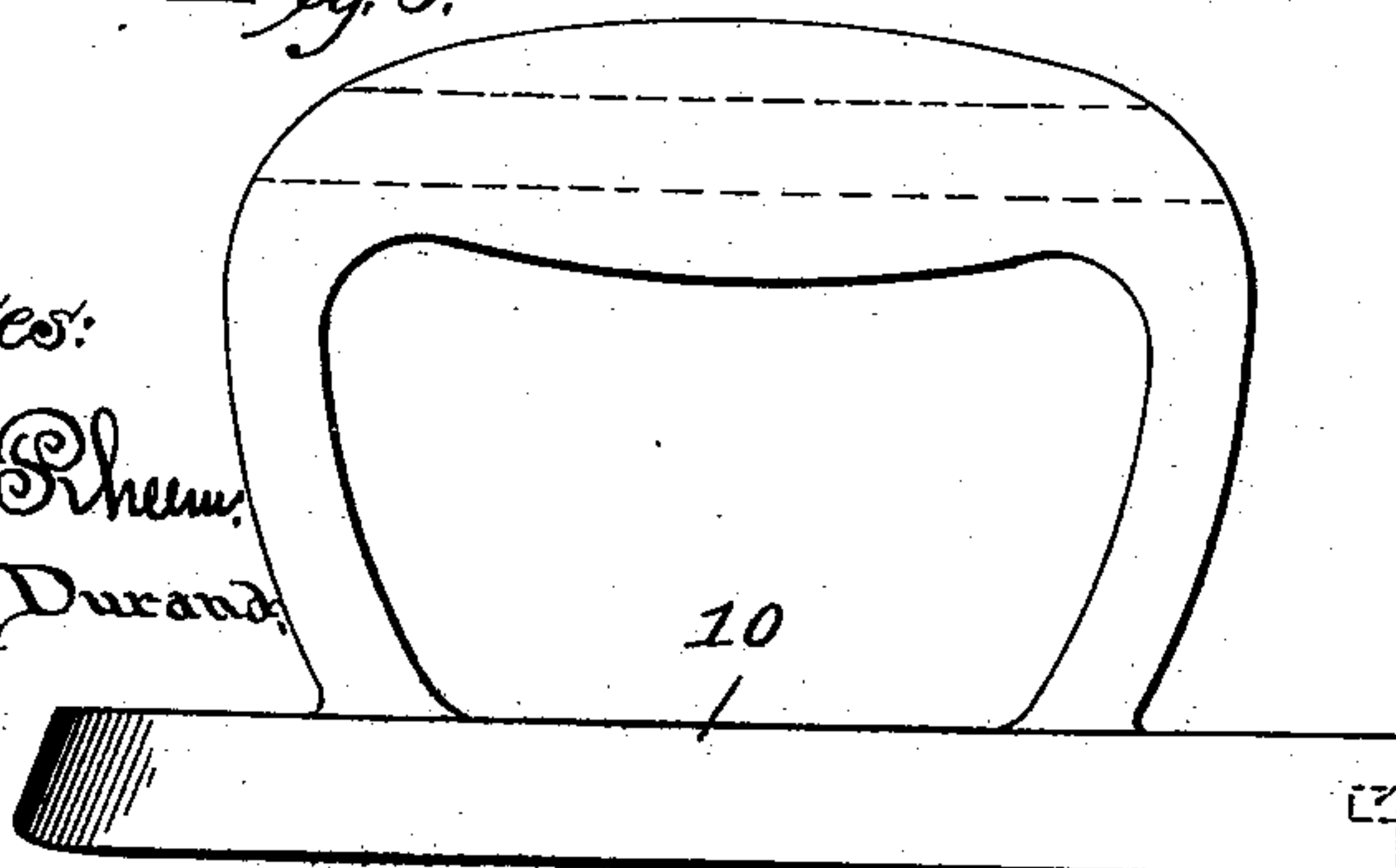
T. G. ADAMS.  
SAD IRON.

No. 506,895.

Patented Oct. 17, 1893.



*Fig. 5.*



Witnesses:

Wm. M. Pheasant

Arthur E. Durand

Inventor:  
Thomas G. Adams  
By Wm. Johnson  
Attorneys



# UNITED STATES PATENT OFFICE.

THOMAS G. ADAMS, OF CHICAGO, ILLINOIS.

## SAD-IRON.

**SPECIFICATION** forming part of Letters Patent No. 506,895, dated October 17, 1893.

Application filed April 6, 1893. Serial No. 469,112. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS G. ADAMS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Sad-Irons; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in sad-irons for ironing or smoothing cloth of the class in which the iron is adapted to be heated from the gas within.

The invention consists in the novel combination, construction and arrangement of parts, and which are fully described in the following specifications, and illustrated in the accompanying drawings in which—

Figure 1 is a vertical section of my improved sad-iron on the line 1. 1. of Fig. 4, with the burner in a position and adapted for heating the sad-iron. Fig. 2 is also a vertical section, in which the polishing iron or cover and handle are removed, and the burner shown in a reversed position. Fig. 3 is a top or plan view with the cover and the gas connecting bulb tube removed. Fig. 4 is an end elevation of my improved sad-iron with the bulb tube removed. Fig. 5 is a detached side elevation of the polishing iron, or cover and handle.

Referring to the drawings, 1 designates the body of the sad-iron, the sides, ends and bottom of which are cast integral, and which form a recess or chamber 2, adapted for the combustion of the gas. Said body is provided with the perforations 3, through which the air enters to maintain combustion therein.

4 is a gas pipe provided with one or more rows of small perforations 5. Said pipe is adapted to form the gas burner. Said burner is inserted into said chamber through a perforation 6, in the back end of the body, and extends longitudinally through said recess or chamber to the front end thereof. Said burner is provided with a screw thread formed on the front or entering end thereof, and is adapted to be screwed or tapped into the front end of the sad-iron body.

7 is a gas connecting tube bent or formed L shape, one end of which is adapted to be rigidly

attached to the outer end of said burner, and the other end of which is adapted to be attached to the gas supply pipe by means of a flexible tube. Said bent tube is provided with an enlargement or bulb adapted to form a chamber 8, into which the gas is received before entering the burner. Said bulb chamber is provided with air openings or perforations 9 through which air is admitted, and drawn into said chamber by the inflowing gas and which mingles therewith, causing or producing a greater intensity of heat from said burner.

10 is the cover, and which is also adapted to be used as a polishing iron, the handle of which, as shown in the drawings being cast or formed integral therewith, but which, if preferred may be made of wood or other material, and detachably connected thereto. Said cover is inserted into the top portion of the sad-iron and rests upon a shoulder or projections formed therein, and is adapted to be held attached thereto by means of an inclined projection 11, formed in the front end of the sad-iron, into which the pointed or front end of the cover is fitted, and by a pin 12, at the opposite end, which passes through a perforation in the rear wall of the sad-iron and into a perforation 13, in the end of the cover or polishing iron. The outer end of said pin is rigidly attached to a flat steel spring 14. One end of said spring is secured to the body of the sad-iron, and the other end is free to be pulled or moved out therefrom and to draw the pin attached thereto out of the perforation in said cover, thus making said cover and polishing iron removably attached to said iron, the face thereof, and of the sad-iron, being finished and polished for the purpose or use for which they are designed.

In the construction it will be observed, that in screwing the burner into the front end of the iron, the bent end of the pipe or tube connection, being rigidly attached thereto, is adapted to form a lever for turning said burner, and that when the burner is in the position adapted for ironing, shown in Fig. 1, with the bent tube in a vertical position, the shoulder of the bulb portion is then brought solidly against the back of the iron, to prevent the motion of the iron when in use and



connected to the flexible tube, from turning said burner from said position, and that when said burner is reversed, as in Fig. 2, and the burner perforations are at the top adapted for  
 5 heating purposes, the burner is unscrewed a half turn, the arrangement being both simple and effective. The bulb tube connection is shown formed integral, with the exception of the reducing plug, which is rigidly inserted in  
 10 the tube part, but if desired the tube part may be formed separately, and rigidly attached to the bulb part.

The practical use, and operation of my improved sad-iron, will be clearly seen and un-  
 15 derstood from an inspection of the drawings.

The ironing table is located conveniently near to a gas supply pipe or burner and a flexible tube is connected therefrom to the bulb tube of the sad-iron, the length of the  
 20 flexible tube being sufficient to allow for the movement necessary for the work of ironing. For the purpose of heating, or cooking, the cover is removed, and the article to be heated is placed over the top of the sad-iron, and the  
 25 burner is reversed. The cover may be conveniently heated over the burner, or upon a stove, and used as a polishing iron.

The invention is adapted to form a very desirable and useful article, and is especially  
 30 desirable for use during the summer, when the heat from the stove in heating the sad-irons becomes oppressive and unbearable.

I am aware that it is not new to heat sad-irons from within the iron itself, or to use  
 35 gas for the purpose of heating metal for iron-

ing or smoothing cloth, and I do not therefore broadly claim such as my invention.

Having fully described my invention, I claim—

In the described sad-iron the combination 40 comprising the body 1, provided with the combustion chamber 2, and perforations 3, the burner 4, provided with the perforations 5, adapted to admit gas within said combustion chamber, said burner inserted longitudinally 45 within said combustion chamber and sad-iron, and screwed into said sad-iron, and adapted to be turned therein to direct the flame from said burner to the bottom or top of said sad-iron, the gas connecting bulb tube 50 7, rigidly attached to said burner, and provided with the chamber 8, and air holes 9, and adapted to be attached to a flexible gas conveying tube, the cover and handle 10, provided with the perforation 13, and adapted 55 to be attached to and detached from said body, by means of an inclined projection 11 and pin 12, and spring 14 attached to said body as described, said cover and handle adapted to be used as a separate polishing sad-iron, and 60 said body and burner adapted to be used for the purpose of heating and cooking, combined and arranged in the manner, and for the purpose specified.

In testimony whereof I affix my signature in 65 presence of two witnesses.

THOMAS G. ADAMS.

Witnesses:

JACOB G. GROSSBERG,  
 LILLIAN BONNER.