No. 742,134 PATENTED OCT. 20, 1903.

G. M. SPANGLER.

GAS HEATED FLAT IRON.

APPLICATION FILED FEB. 6, 1903.

NO MODEL.

FIG. 1.

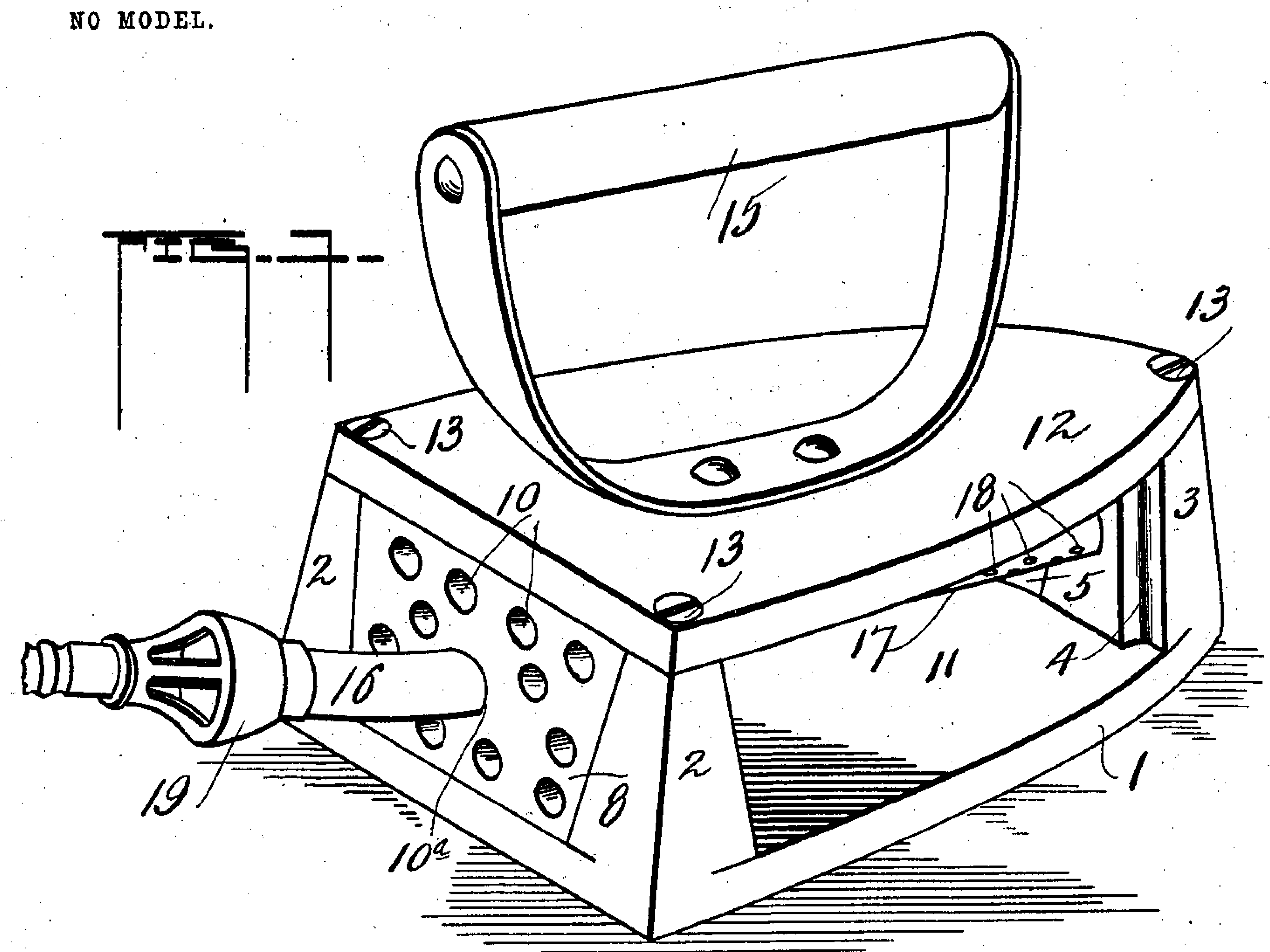


FIG. 2.

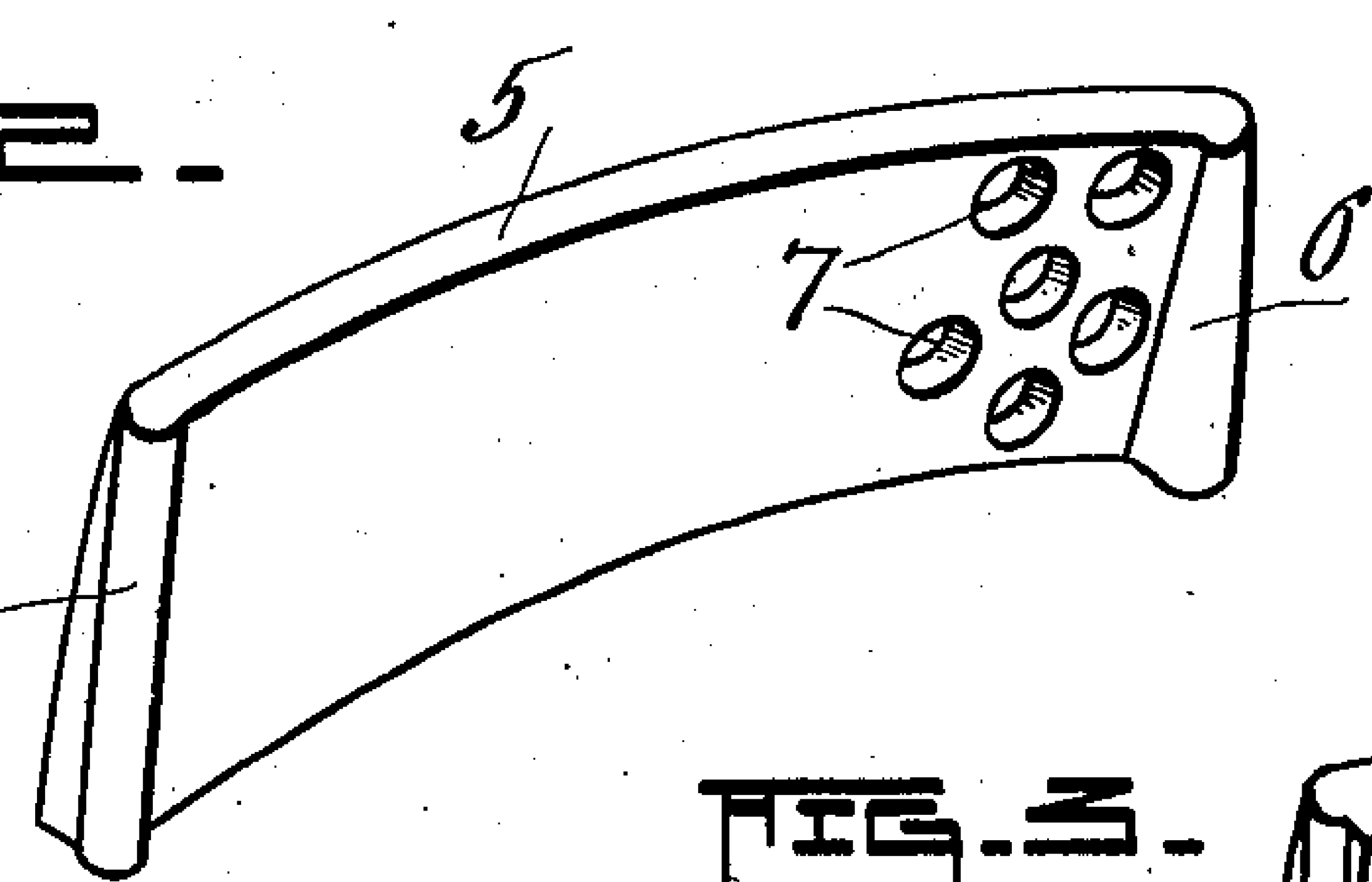
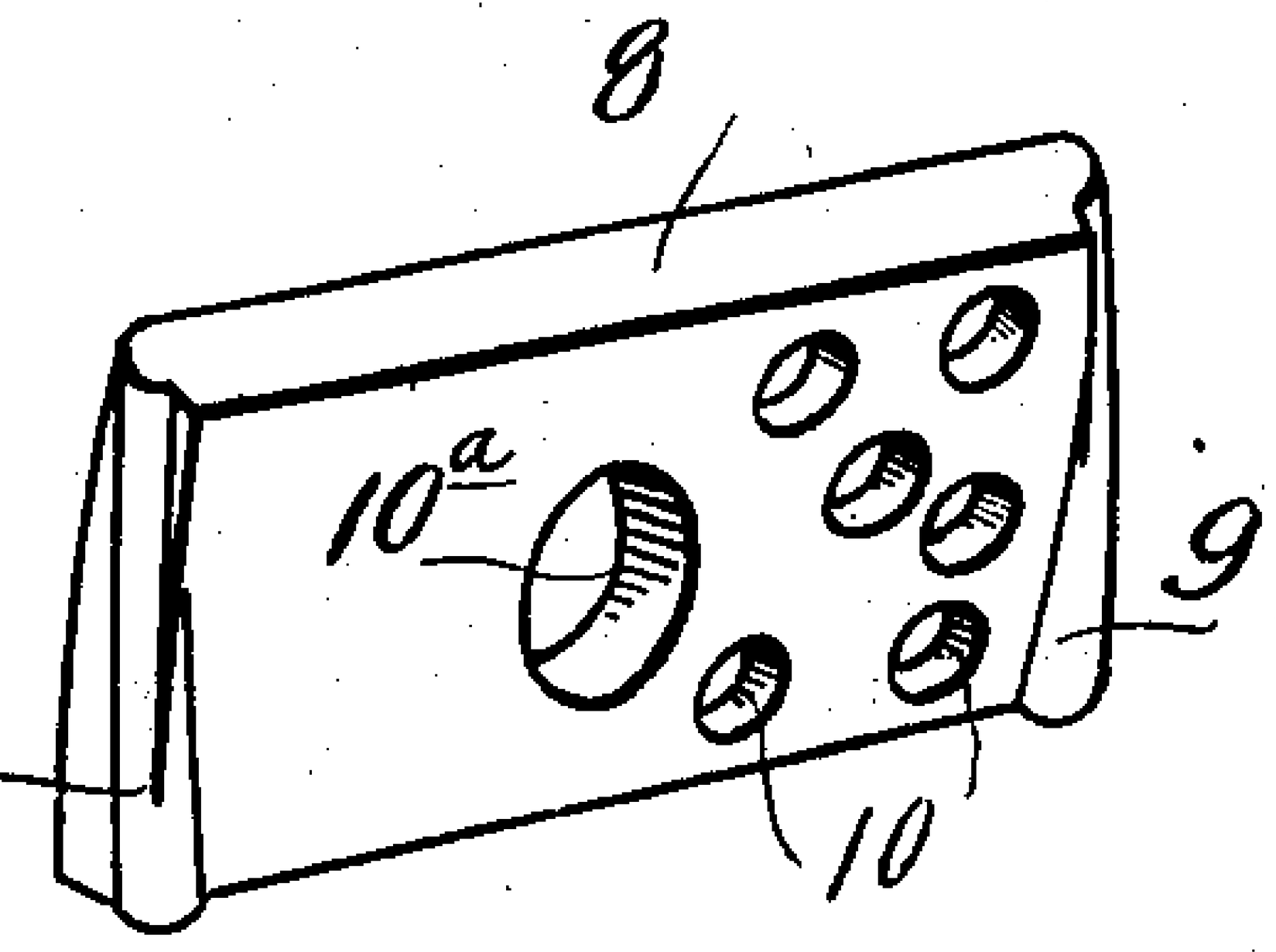


FIG. 3.



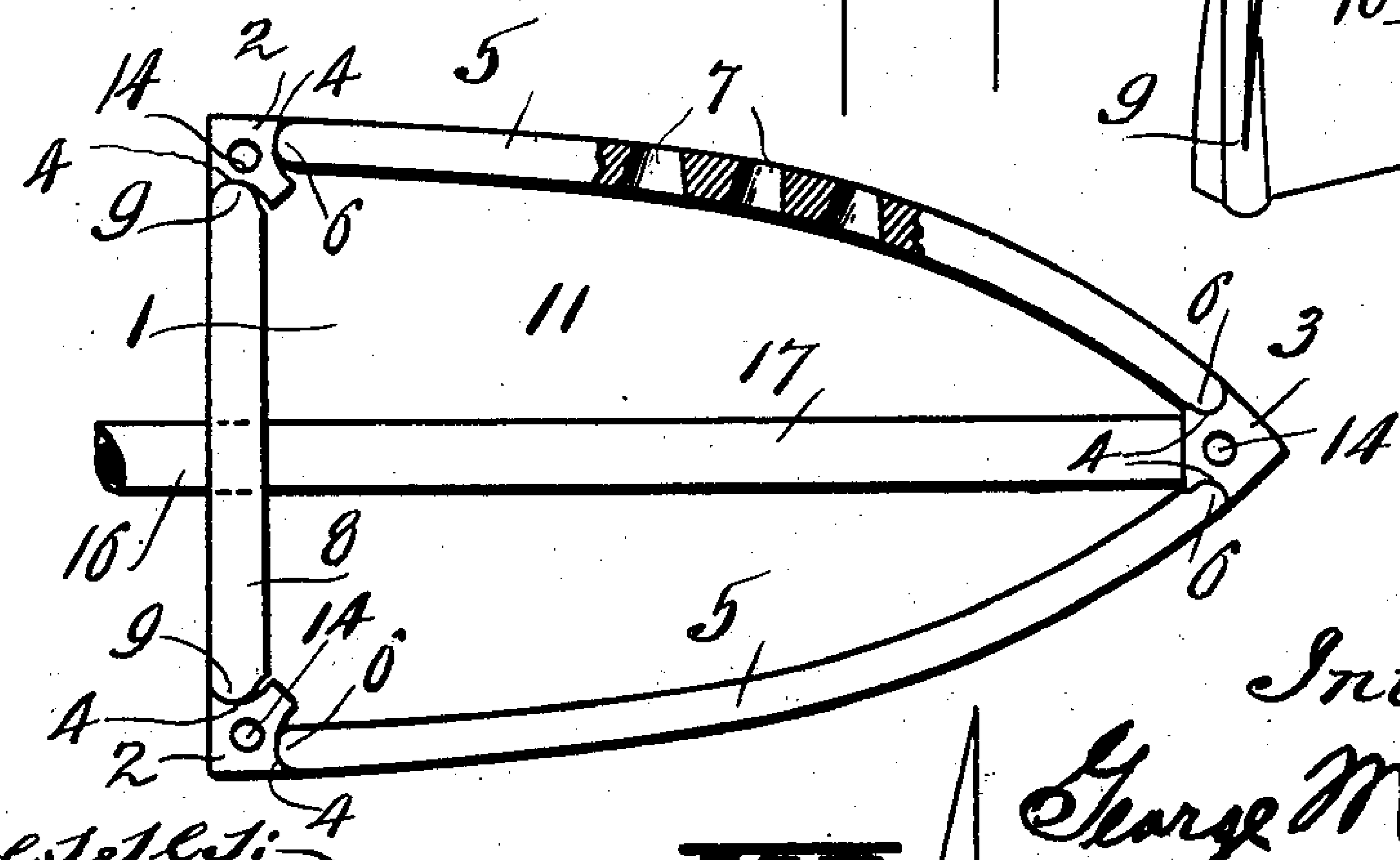


FIG. 4.

Witnesses:
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No. 742,134. Patented October 20, 1903.

UNITED STATES PATENT OFFICE.

GEORGE M. SPANGLER, OF PEORIA, ILLINOIS.

GAS-HEATED FLAT-IRON.

SPECIFICATION forming part of Letters Patent No. 742,134, dated October 20, 1903.

Application filed February 6, 1903. Serial No. 142,243. (No model.)

To all whom it may concern:

Be it known that I, GEORGE M. SPANGLER, a citizen of the United States, residing at Peoria, in the county of Peoria and State of Illinois, have invented certain new and useful Improvements in Gas-Heated Flat-Irons; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

This invention has reference to certain new and useful improvements in gas-heated flat-irons.

The object which I have in view is to provide a gas-heated flat-iron of simple construction having a combustion-chamber wherein the desired results may be obtained necessary in an iron of this character.

A further object is to provide a gas-heated flat-iron having its body made in several pieces and interlocked together, with its side and rear walls suitably perforated.

Other objects and advantages looking to the general improvement of gas-heated flat-irons of this character will become apparent in the course of the following description, and the points of novelty will be set forth in the claims.

In the drawings illustrating my invention, Figure 1 is a perspective view of my improved iron, one side thereof detached. Fig. 2 is a perspective view of the detached side of the iron inverted. Fig. 3 is a perspective view of the rear end of the iron detached, and Fig. 4 is a plan view of the iron with its top removed and one of its sides partially in section.

Referring to the drawings, 1 designates the base or bottom of my flat-iron having the general contour of an ordinary flat-iron in general household use, and extending up from the base a suitable distance at the rear corners I provide the posts 2 and the post 3 at the front of the base. Each of the said posts is provided with the oppositely-placed grooves or channels 4, and, as seen in the drawings, the posts are smaller at their upper ends than at their lower ends for strength.

5 indicates the side walls of the iron cast to match the contour of the base, and the said walls at their ends are provided with the rounded portions 6, adapted to be retained in the grooves or channels 4 of the front and rear corner-posts. The side walls are further provided with a series of tapered perforations 7, as shown. Fig. 2 shows only a portion of a side wall perforated; but it is to be understood that it is intended to perforate nearly, if not all, of the entire side.

8 indicates the rear wall of the complete iron, which has its opposite ends provided with the rounded portions 9, adapted to be retained in the grooves or channels 4 of the two rear posts, as shown, and the rear wall has the tapered perforations 10, similar to those of the sides and with a centrally-disposed somewhat larger perforation 10^a, for a purpose to be described. These walls are assembled with the base to form a combustion-chamber 11 and are detachably secured to the base by the interlocking connection which they have with the posts by sliding them into the grooves of the posts by means of their rounded portions which enter the grooves from the top of the post when the top or covering plate is removed. The chamber 11 is inclosed by the top or covering plate 12, which is detachably secured to the posts by means of screws 13, engaging the perforations 14 in the upper ends of the post, as shown. To the top or covering plate 12 is attached a handle 15 in the manner shown and for the purposes apparent.

16 indicates a gas-pipe passing through the perforation 10^a in the rear wall and, extending through the combustion-chamber at a proper distance above the base, is secured in the front post 3 and forms a burner 17 within the chamber 11 by perforating the wall of the said pipe with small perforations 18.

To the gas-pipe at a suitable distance from the iron is attached an air-mixer 19, and the mixer has a stem to which is connected a flexible pipe or hose receiving its supply of gas from a suitable source.

I am aware that it is not new to heat an iron by gas; but I am not aware of a construction such as I have shown wherein the iron is made in several pieces and interlocked and secured in the manner shown herein. This feature is most important in the point of manufacture.

It has been difficult to provide an iron of this character, one sufficiently small for

household purposes, with a combustion-chamber sufficiently large and arranged to carry off the products of combustion without danger to the user unless at great expense and very complicated. By constructing an iron in several pieces, such as I show, I am enabled to cast the sides and rear wall at small expense and with a sufficient number of perforations, the perforations being distributed, if necessary, over the entire surface of said sides and wall with very little expense. To produce an iron small enough where the parts are integral, the walls of the iron must be drilled, and this expense is so great that it is not practical to manufacture such an iron for household purposes.

I disclaim the broad idea of a gas-heated iron, the burner, and the mixer and claim an iron constructed on the lines here drawn.

Minor modifications involving mechanical skill may be made without departing from the spirit of the invention.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. A gas-heated flat-iron, comprising a base having integral rear and front corner-posts extending up a short distance and provided with oppositely-arranged grooves, of detachable side and rear perforated walls having their opposite ends arranged for interlocking connection with the grooves of the post, and a cover detachably connected to said posts, substantially for the purposes specified.

2. In a gas-heated flat-iron, the combination of a base having upwardly-disposed posts arranged with longitudinal grooves, of detachable perforated walls having an interlocking relation with the posts by sliding the walls downwardly in the grooves of the posts, a cover detachably connected to the posts and a burner extending through one of the walls and having one end secured in one of said posts, substantially as specified.

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

GEORGE M. SPANGLER.

Witnesses:

ZYLPHA MCCULLEY,

JAMES GROVE.