

F. W. EMERSON.  
SAD IRON.  
APPLICATION FILED JUNE 1, 1908.

943,302.

Patented Dec. 14, 1909.

Fig. 1.

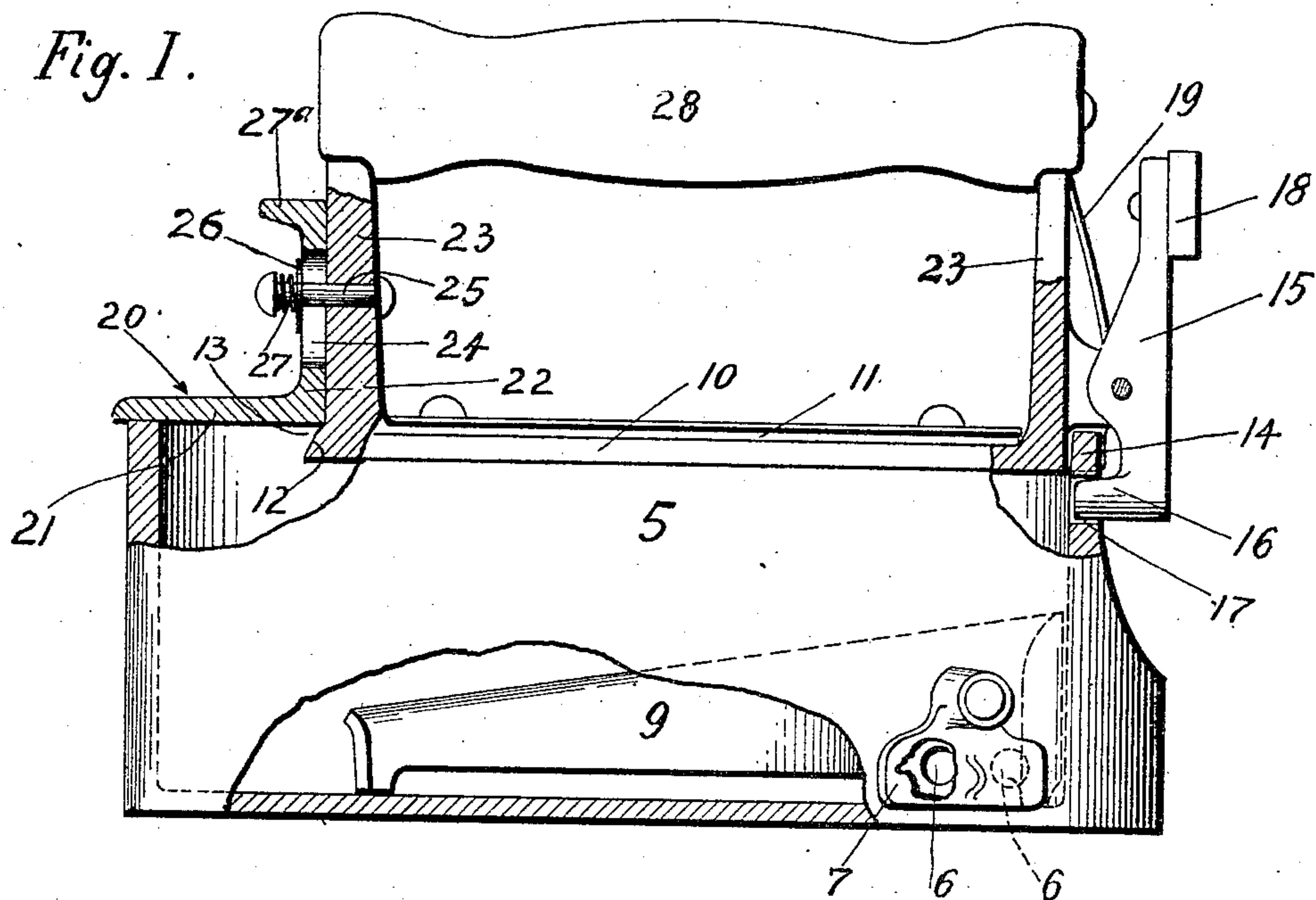


Fig. 2.

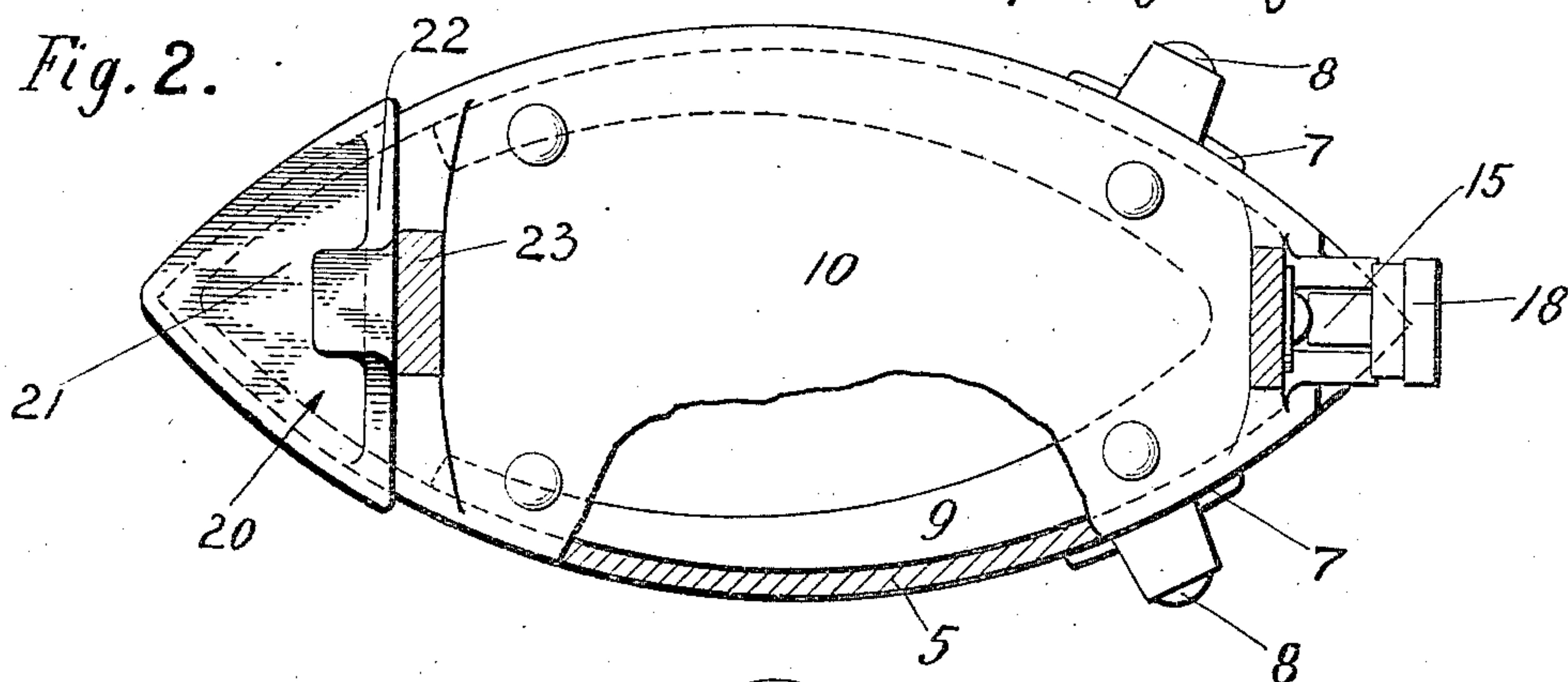
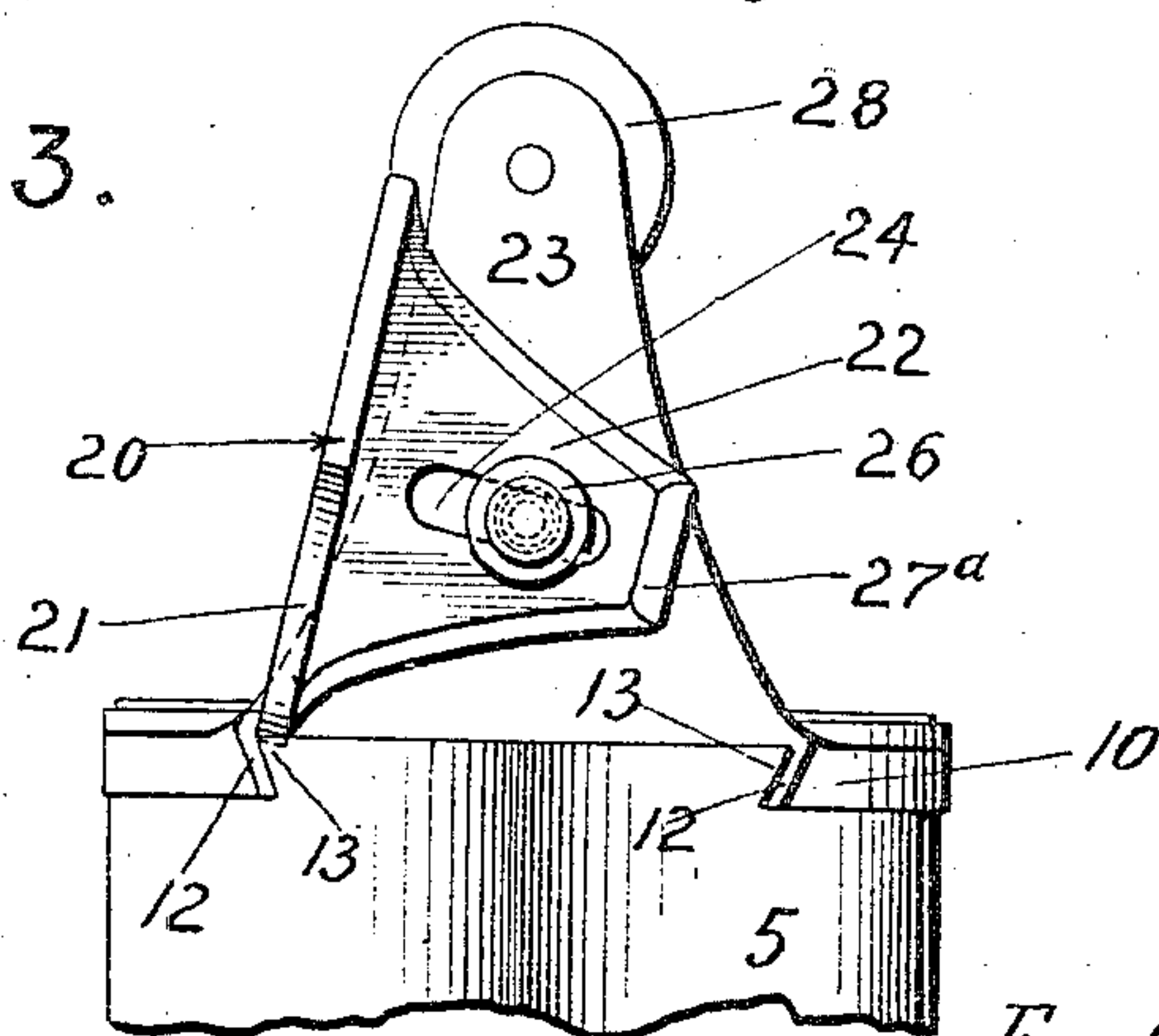


Fig. 3.



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# UNITED STATES PATENT OFFICE.

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SAD-IRON.

943,302.

Specification of Letters Patent.

Patented Dec. 14, 1909.

Application filed June 1, 1908. Serial No. 435,931.

*To all whom it may concern:*

Be it known that I, FREDERICK W. EMERSON, a citizen of Great Britain, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Sad-Irons, of which the following is a specification.

This invention relates to general improvements in sad irons and consists in certain constructions which provide a simple, neat and efficient iron for laundry purposes.

One of the prime features is the provision of a novel draft regulator and closure for the upper part of the iron.

Other features in combination with this will be understood from the following description.

In the accompanying drawings forming a part of this specification:—Figure 1,—is a side elevation, partly sectional, of my improved iron. Fig. 2,—is a plan view, partly sectional, of the same. Fig. 3,—is a partial front end elevation of the same.

Referring to the drawings 5 designates the body which is approximately elliptical in plan being more or less pointed at both ends after the general configuration of laundry irons. Near the bottom and at the rear end of the body, inlet draft openings 6 are arranged on each side and are controlled by dampers 7, pivoted at 8 to the outside of the body. These openings emerge on the inside of the body under a horse-shoe shaped flue 9 which extends around the rear portion of the sides and the end. This flue is formed by an overhanging curved shelf which directs the air entering through inlet opening 6 around the bottom edges of the body and thus distributes the inlet of the air over a large part of the fuel without causing an inconvenient or excessive draft in any particular place. This flue 9 is constructed separably from the body so that it may be removed therefrom when it becomes burned out, it being in contact with the fuel and subjected to a higher temperature than any of the other parts.

The body is provided with a flat cover 10 of the configuration shown in Fig. 2 which has a heat insulating layer of asbestos 11 upon its upper surface to protect the hand of the operator from excessive heat. The wooden handle 28 is secured in the upright standards 23 by means of a rivet passing through said handle. One end of the cover is provided with angular portions 12 which

engage with lugs 13 formed on the front body portion of the iron. The rear end bears against an upwardly projecting lug 14 on the body so that the rearward movement of the cover to remove it from engagement at its front end is prevented by this lug. Its upward movement at the rear end is prevented by means of a spring pressed pivoted arm 15 having a lug 16 at its lower end which enters an aperture 17 in the body. A thumb piece 18 on the upper end of arm 15 provides means for moving the arm against the force of spring 19 to remove lug 16 from aperture 17. The rear end of the cover may then be moved upwardly and the cover taken from the body.

As shown in Figs. 1 and 2 the cover ends at some distance from the front of the body of the iron thus leaving open a small triangular space from the interior. This opening constitutes the upper draft opening of the iron and is closed by means of a closure 20 which also forms the draft regulator. This closure 20 consists of a flat plate of a general configuration similar to that of the draft opening but larger and provided with an upward extension 22 which bears against handle supporting standards 23. A vertical slot 24 is formed in extension 22 and a bolt or rivet 25 passes through this slot. A washer 26 around bolt 25 is pressed against extension 22 by means of spring 27, this spring affording enough pressure to hold the draft regulator in any desired position. The upper end of extension 22 is provided with a lug 27<sup>a</sup> which may be engaged by the finger of the operator to move the regulator to any desired position. When it is desired to open the draft opening by a slight amount, closure 20 is pulled up vertically a sufficient distance. When it is desired to fully open the draft opening the closure is turned to the position shown in Fig. 3 so that the opening is left entirely free and the full amount of draft is allowed.

The position of the draft closure 20 as illustrated in Fig. 3 also affords a convenient method of removing the fuel ash out of the body of the iron, which operation is usually accomplished by blowing.

The operation of this iron is similar to that of other irons of the same class, the draft and heat being regulated by means of closure 20 and dampers 7. When it is desired to extinguish the fire the draft openings are tightly closed.

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

5 A sad iron comprising, a fuel containing body having draft openings therein, a removable draft flue wall mounted on the inside of said body, a cover for said body closing a portion of the top thereof, said cover having upright standards thereon and  
10 a handle carried between said standards, an adjustable cover for the remainder of said body portion carried by one of said standards, said adjustable cover being mounted

for sliding and rotative movement and having a lug portion adjacent the end of said 15 handle, said lug portion being adapted to be engaged by the thumb of the operator to regulate the draft through said body portion of the iron.

In witness that I claim the foregoing I 20 have hereunto subscribed my name this 23 day of May, 1908.

FREDERICK W. EMERSON.

Witnesses:

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