

G. H. HEINDSELMAN.

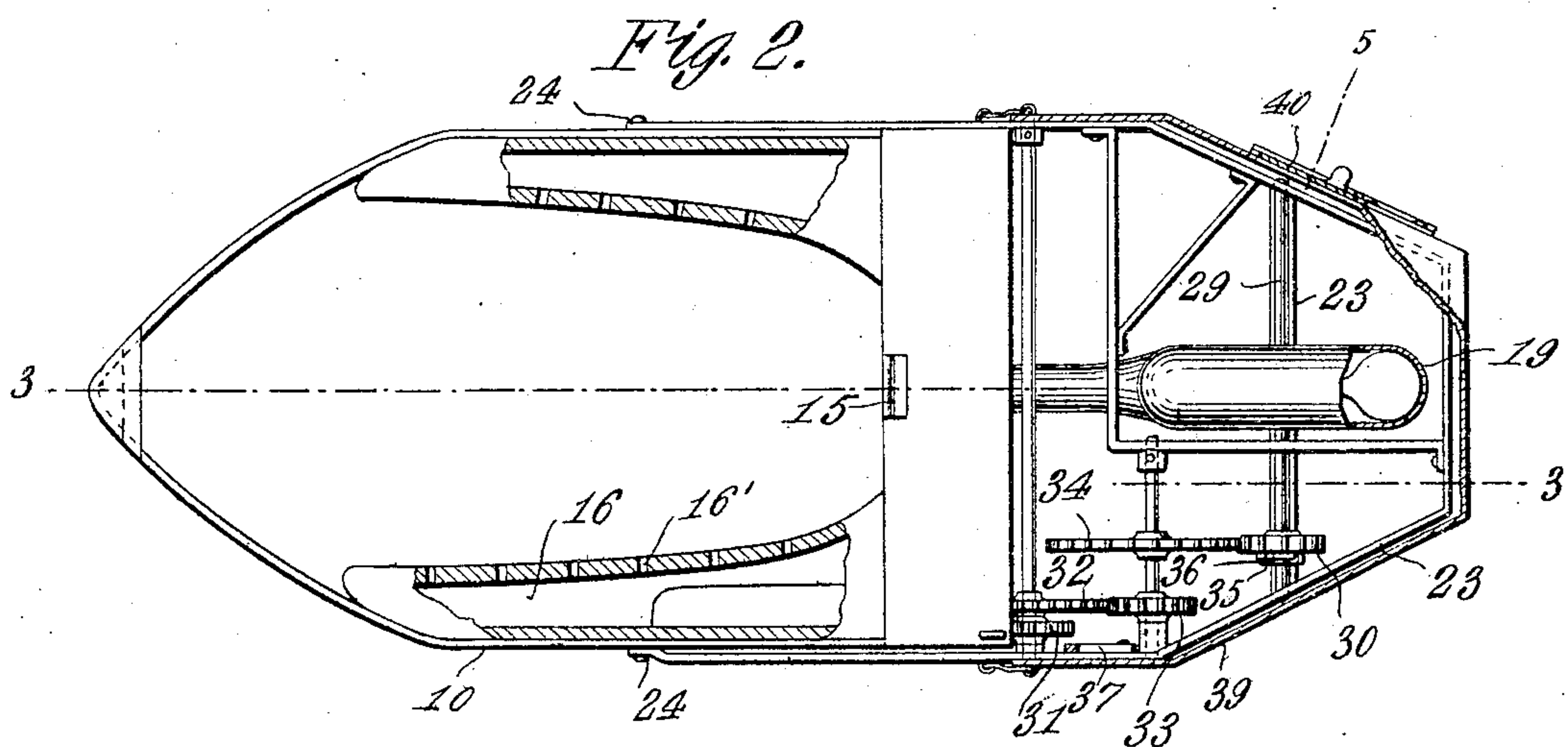
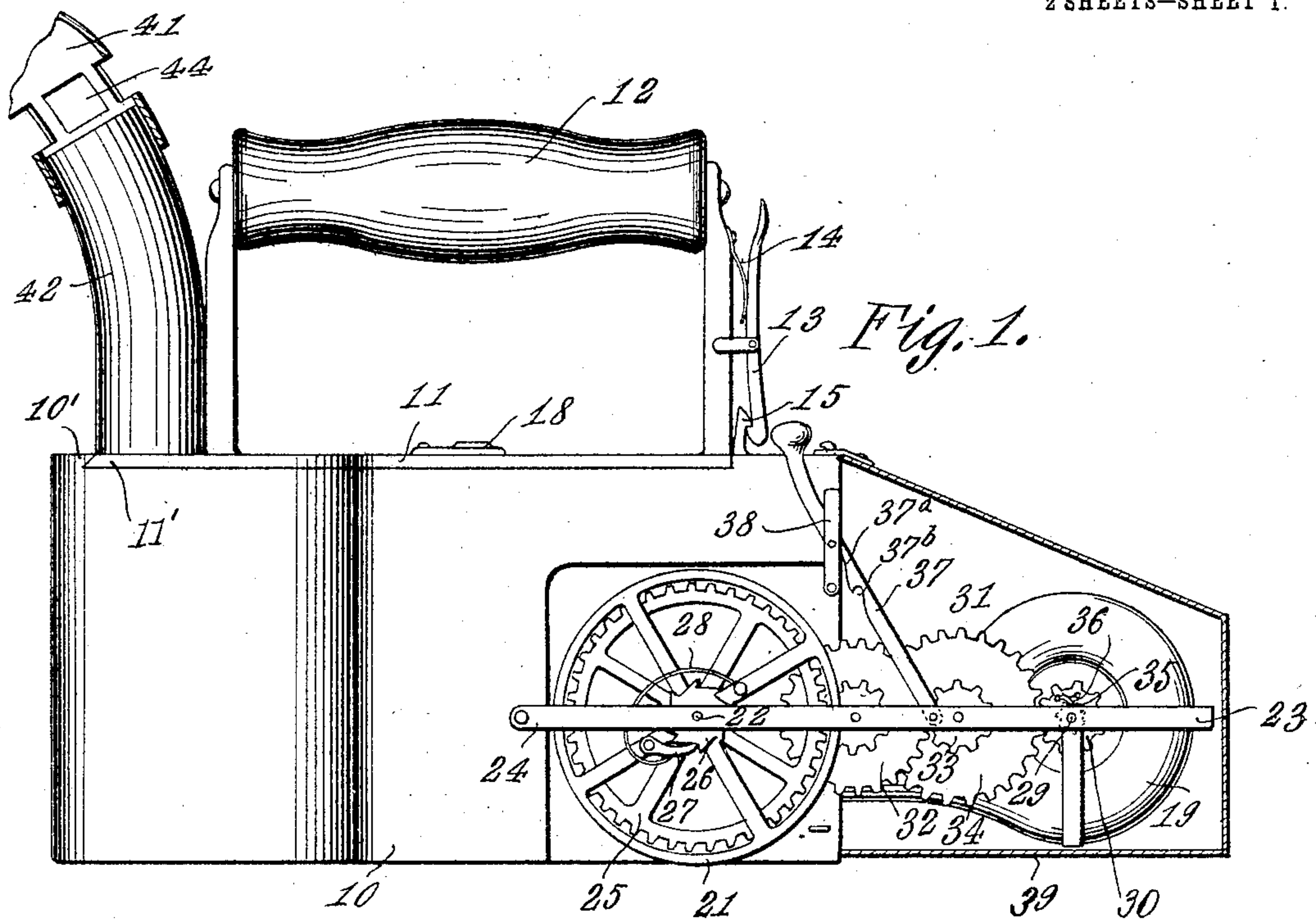
FLAT IRON.

APPLICATION FILED APR. 21, 1909.

931,198.

Patented Aug. 17, 1909.

2 SHEETS—SHEET 1.



Witnesses

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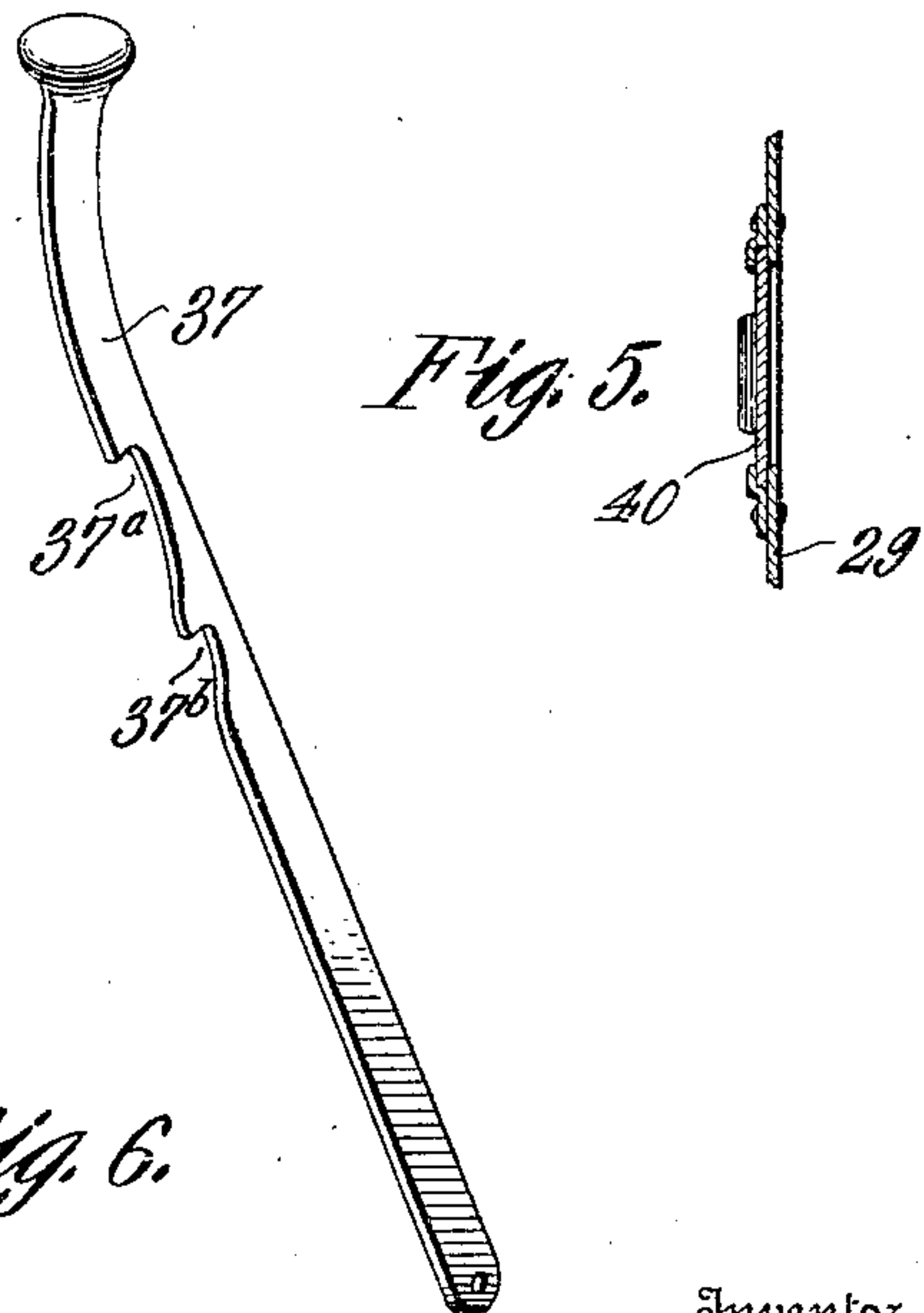
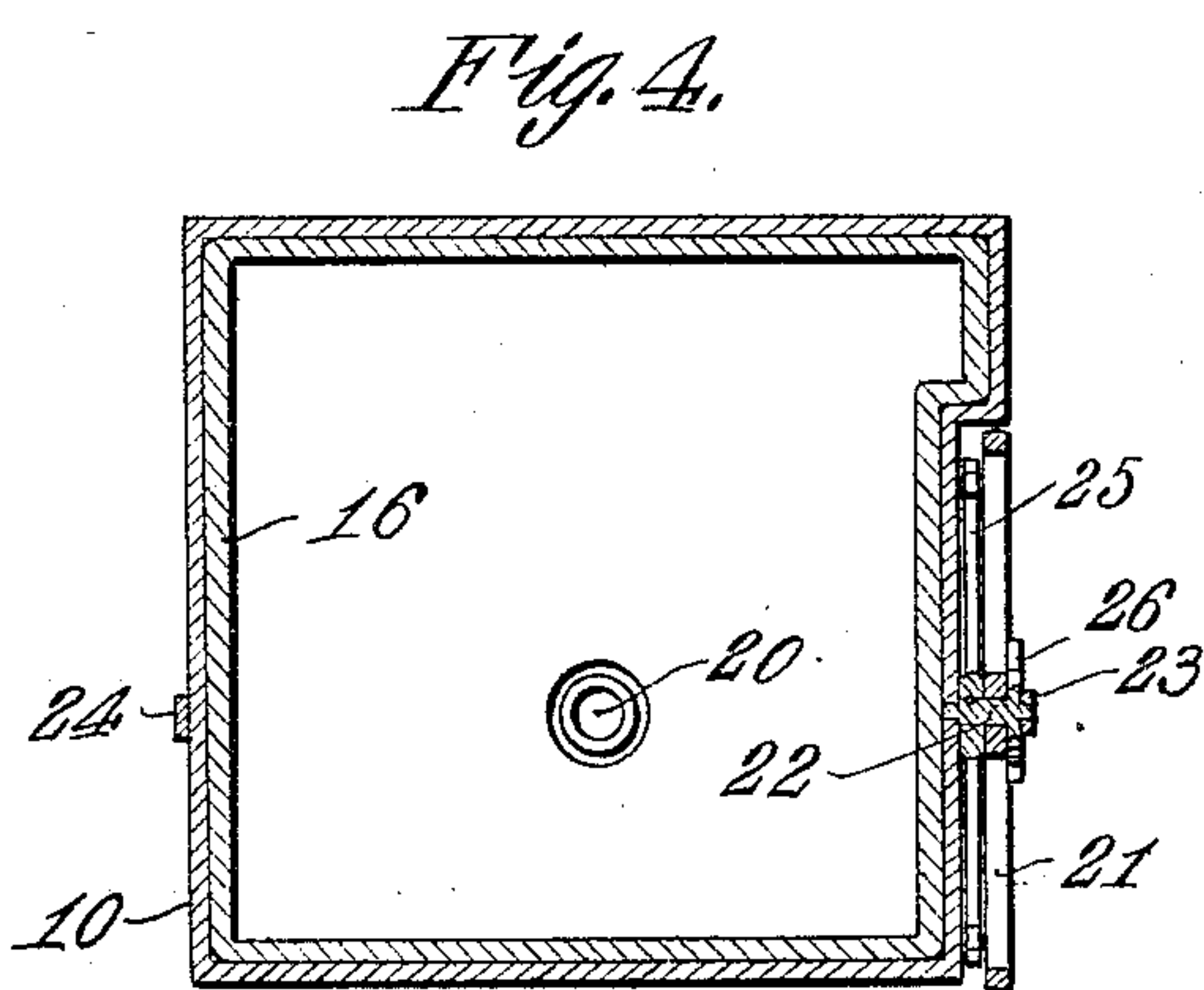
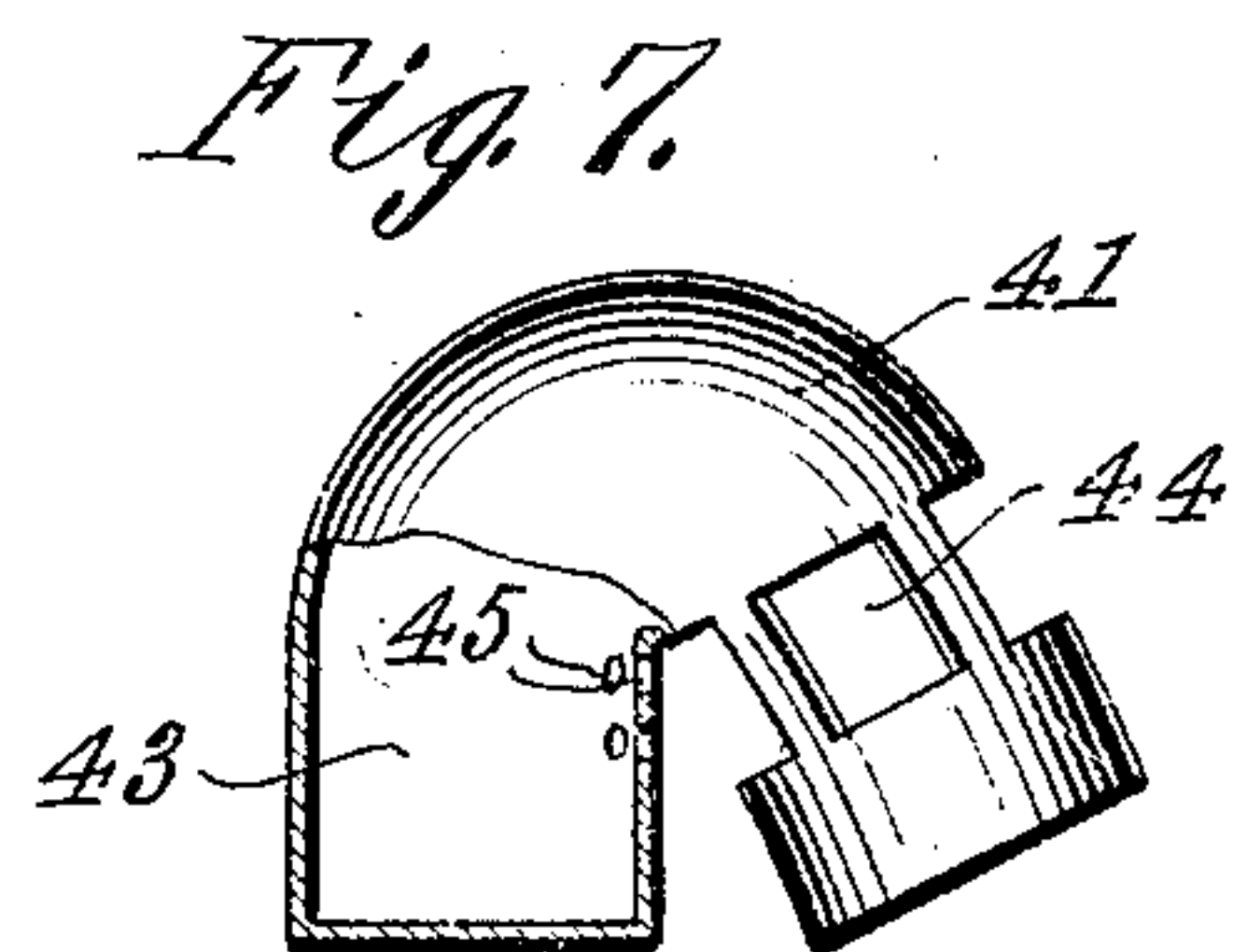
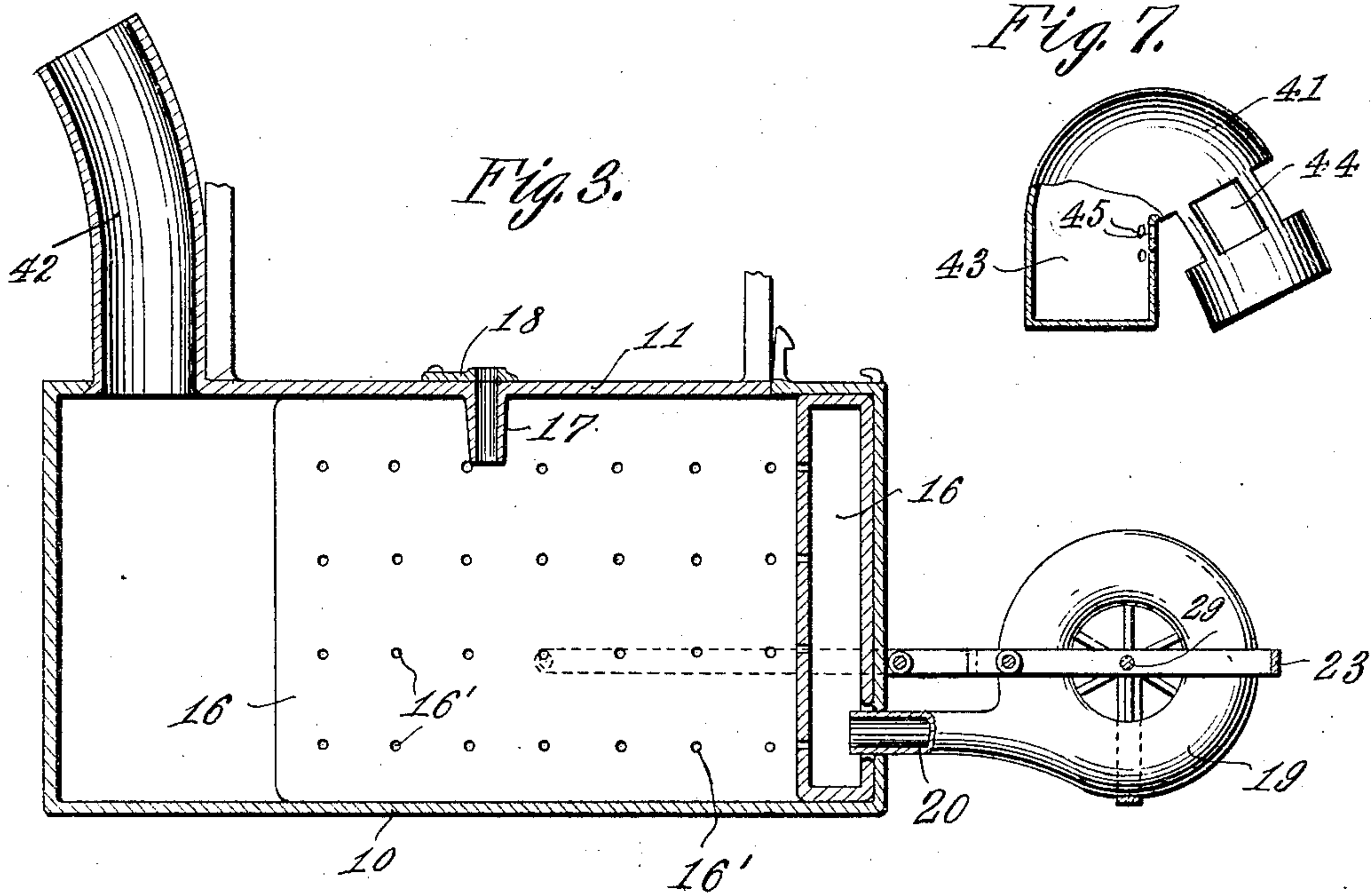


Fig. 6.

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UNITED STATES PATENT OFFICE.

GEORGE H. HEINDSELMAN, OF PROVO, UTAH.

FLAT-IRON.

No. 931,198.

Specification of Letters Patent.

Patented Aug. 17, 1909.

Application filed April 21, 1909. Serial No. 491,273.

To all whom it may concern:

Be it known that I, GEORGE H. HEINDSELMAN, a citizen of the United States, residing at Provo, in the county of Utah and State of Utah, have invented certain new and useful
5 Improvements in Flat-Irons, of which the following is a specification.

This invention relates to sad irons, and particularly to that type which are heated
10 by self-contained fuel.

The principal object of the invention is to provide a device of this character wherein the operation of the implement may be utilized to create a blast for fanning the fire contained within the body of the iron.

The invention comprises certain specific novel features of construction hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the device, parts being in section or broken away; Fig. 2 is a plan view, partly in section; Fig. 3 is a vertical longitudinal section on the line 3—3 of Fig. 2; Fig. 4 is a transverse detail; Fig. 5 is a detail on the line 5 of Fig. 2; Fig. 6 is a perspective view of a pull bar hereinafter described, and Fig. 7 is a detail view of an attachment for the smoke flue.

Throughout the following detail description and on the several figures of the drawings, similar parts are referred to by like reference characters.

The invention constituting this improvement comprises a body member 10 within the interior of which the body of fuel is to be placed. The said body is inclosed or covered by a removable cover 11 to which is connected a handle 12. The forward edge 11' of the cover engages in a notch 10' and the cover at its rear end is detachably connected by means of a latch 13 held by a spring 14 normally in engagement with a catch 15. Within the body 10 is a U or horse-shoe-shaped furnace 16 having a series of perforations 16' opening into the interior of the body 10. The lid 11 is provided with a port 17 which may be closed when desired by a cap 18.

In devices of this character it is necessary to provide means whereby the fire may be fanned in order to regulate the temperature, and to this end I employ a rotary blower 19 connected to the rear end of the body 10 and having a neck 20 extending into the furnace 16 as indicated in Fig. 3. Any suitable means may be employed to rotate the fan of

the blower, and as a convenient means for this purpose I provide a friction or traction wheel 21 journaled loosely upon a stud 22 carried by a frame 23, which is pivoted at its front end at 24. Connected to the stud 22 is a gear wheel 25 and the stud is driven in one direction from the traction wheel 21 by means of a pawl and ratchet device, indicated in Fig. 1. The ratchet 26 is secured to the stud and the pawl 27 is carried by the traction wheel 21, being held in engagement with the ratchet wheel by a suitable spring 28. The fan shaft 29 is journaled in the frame 23 and loosely mounted thereon is a pinion 30. Between the gear 25 and the pinion 30 are a set of speed gears indicated at 31, 32, 33, and 34. A ratchet wheel 35 is secured to the shaft 29 and is driven from the pinion 30 by means of a pawl 36 carried by the pinion 30. By this means the fan may rotate independently of the driving gears. And also the wheel 21 may rotate in one direction independently of the gearing. A pull bar 37 is connected to the frame 23 and is provided with notches 37^a and 37^b which are adapted to cooperate with a yoke 38 and whereby the frame may be held in either of two adjusted positions, either in operative contact with the work being ironed for the purpose of operating the gearing, or in an elevated position so as to be inoperative.

The fan or blower and gearing connected thereto may be inclosed by any suitable form of cover or cap 39 which should be substantially air-tight, save for a slide or adjustable door 40 whereby the amount of draft may be regulated to vary the effect of the blower, in a well known manner.

A hood 41 is detachably connected to the upper end of the flue 42 and is intended to be used especially just after replenishing the fire within the body 10, at which time there is likelihood of ashes or particles of dust escaping and causing damage to the garments operated upon by the iron. The hood comprises a U-shaped structure having at one end a closed cup 43 and adjacent to the other end are a series of openings 44 whereby the products of combustion may escape and yet allowing the particles of dust, or the like, to be thrown over into the cup. Other holes may be formed at any suitable place to permit the gases or blast to escape if desired.

The device may be made of any suitable sizes or dimensions and of any suitable materials. The details of construction also may

be varied within the spirit of the invention hereinafter claimed.

Having thus described the invention, what is claimed as new is:

- 5 1. In a device of the character set forth, the combination of a hollow body, rotary blast mechanism connected to the rear end of said body and directed into said body, a frame carrying said blast mechanism and
10 pivoted to the body, a friction wheel to drive the blast mechanism in unison with the operation of the body, and a pull bar to elevate the said frame and blast mechanism to stop the operation thereof.
- 15 2. In a device of the character set forth, the combination of a hollow body, blast

mechanism connected at one end thereof and directed thereinto, a frame pivoted to the body and supporting the blast mechanism, a friction wheel operable in unison with the body, connections between said friction wheel and the blast mechanism, a cap to inclose the blast mechanism and driving mechanism therefor, and an adjustable slide to control the admission of air to the blast mechanism. 25

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

GEORGE H. HEINDSELMAN.

Witnesses:

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A. W. KARTCHNER.