

F. A. BONROE.

FLAT IRON.

APPLICATION FILED OCT. 8, 1907.

899,200.

Patented Sept. 22, 1908

FIG. 1

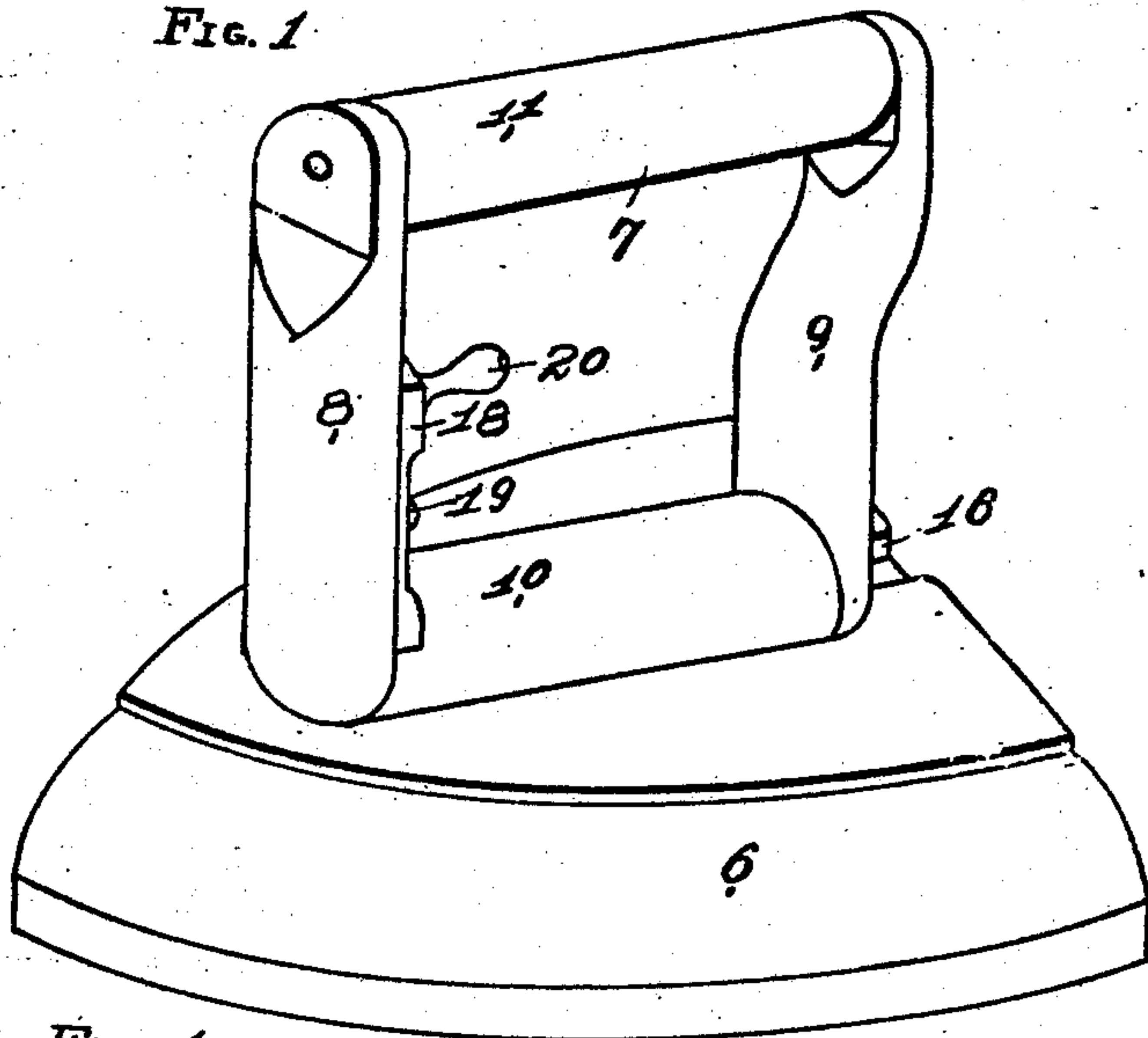


FIG. 3

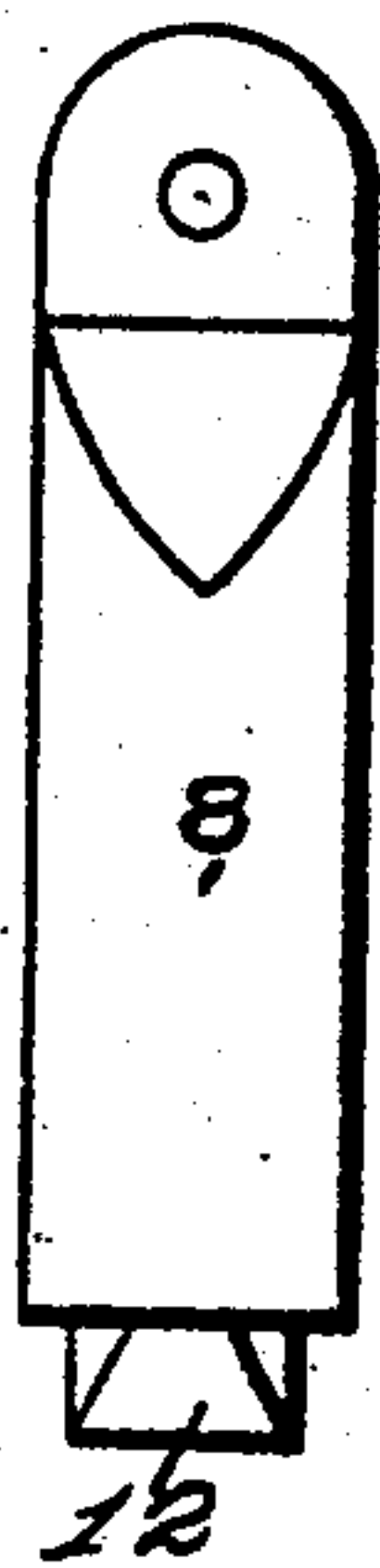


FIG. 4

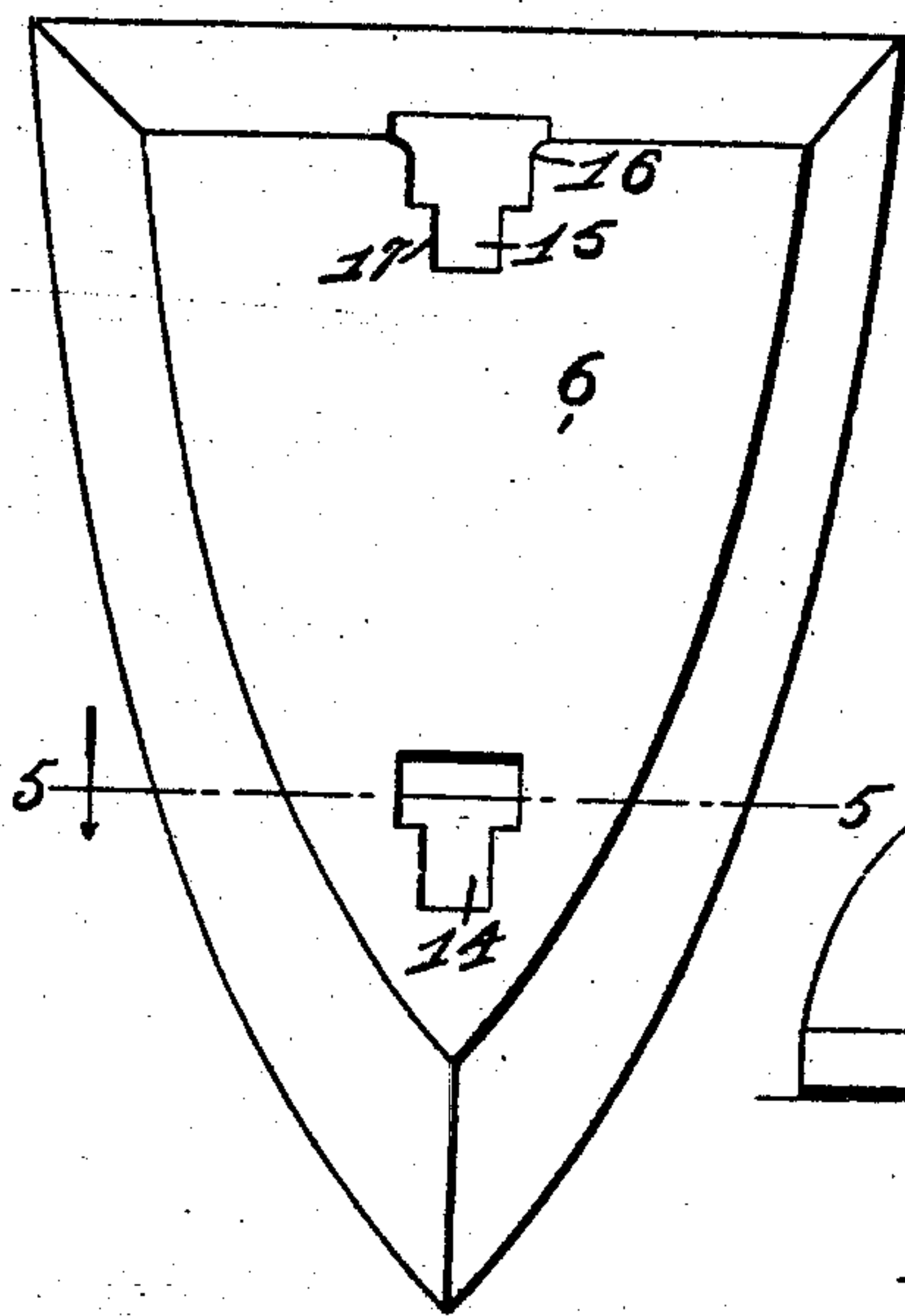


FIG. 2

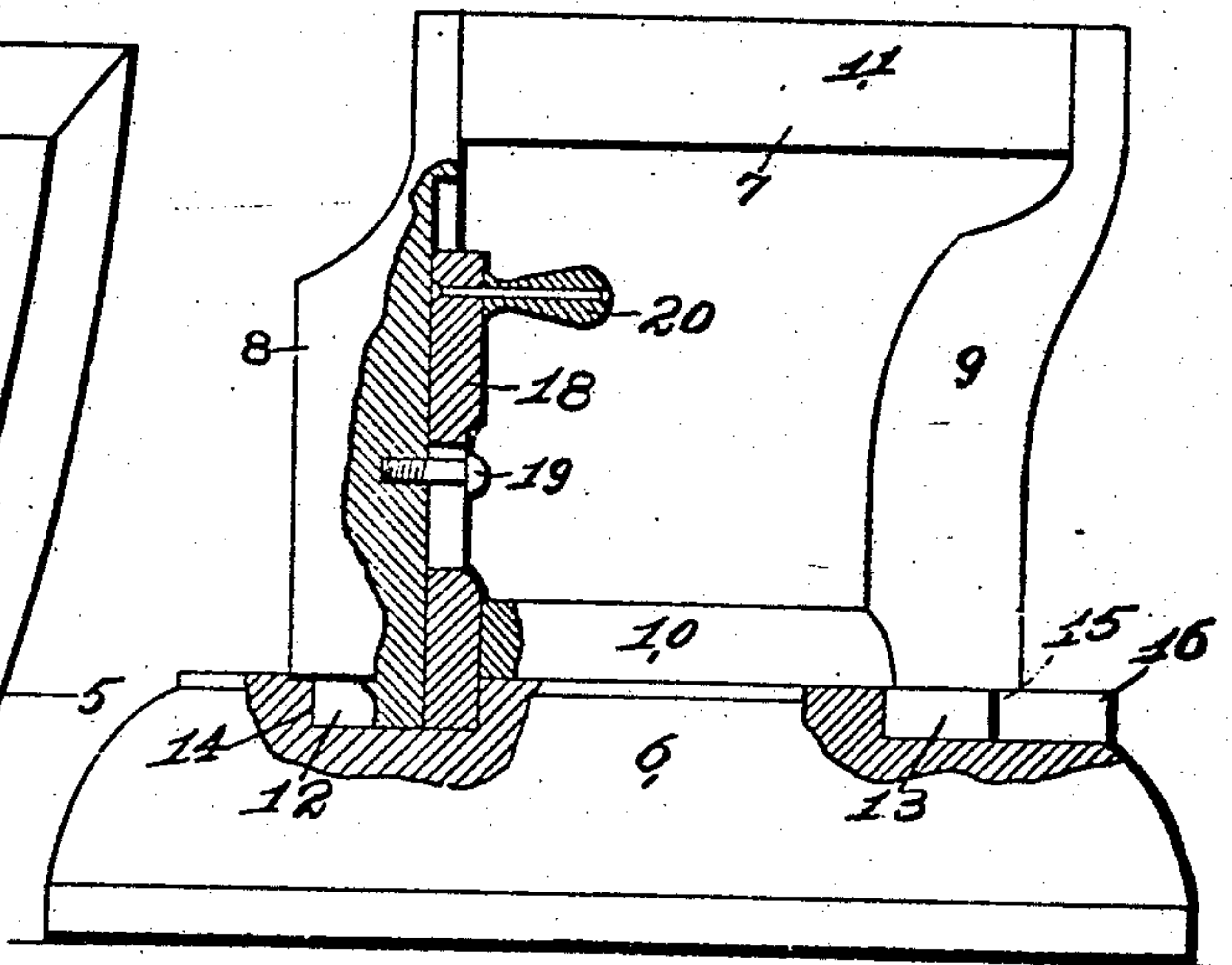
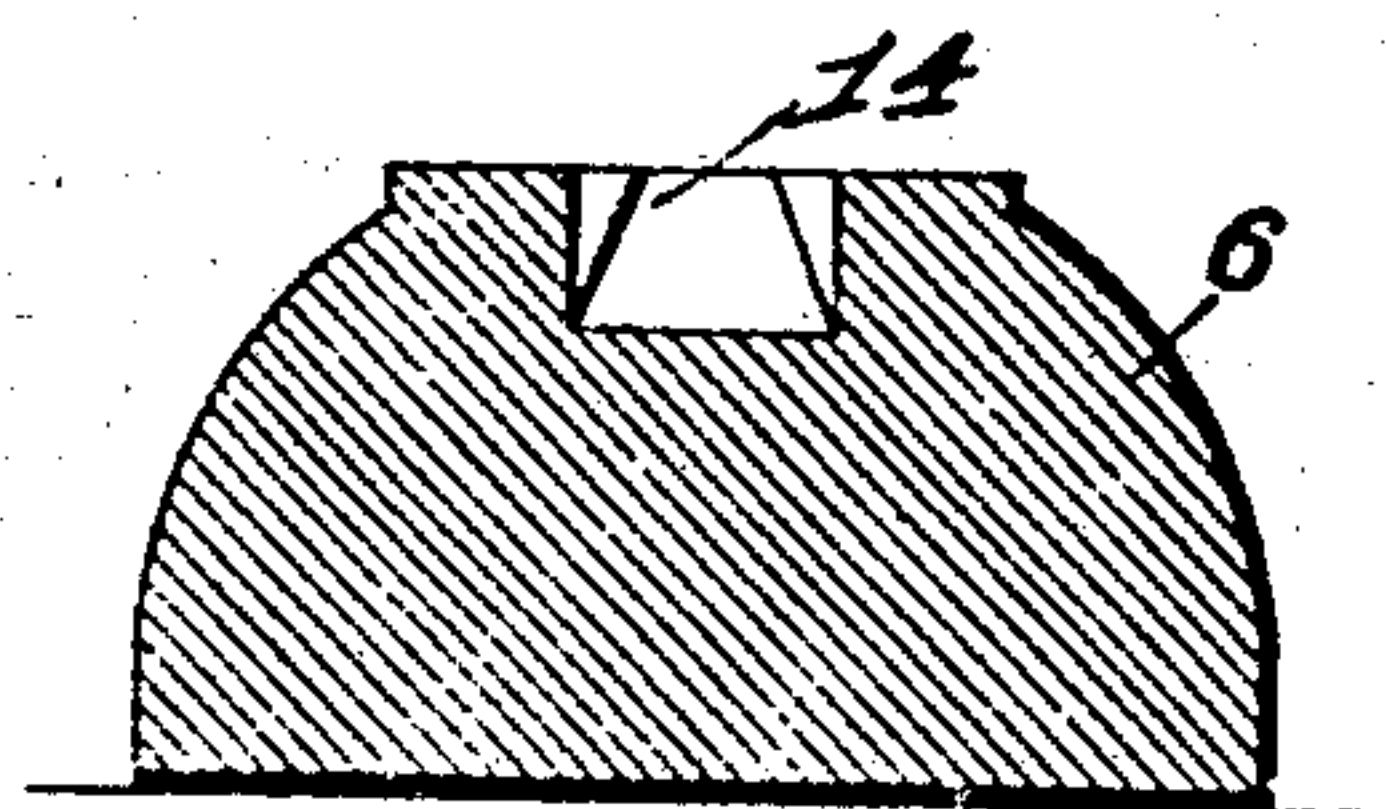


FIG. 5



WITNESSES

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# UNITED STATES PATENT OFFICE.

FRANK A. BONROE, OF ST. LOUIS, MISSOURI.

## FLAT-IRON.

No. 899,200.

Specification of Letters Patent.

Patented Sept. 22, 1908.

Application filed October 8, 1907. Serial No. 396,477.

*To all whom it may concern:*

Be it known that I, FRANK A. BONROE, a citizen of the United States, and resident of St. Louis, Missouri, have invented certain new and useful Improvements in Flat-Irons, of which the following is a specification.

My invention relates to an improvement in flat irons, and has for its object to provide a flat iron consisting of a single piece of metal with a readily detachable handle having details of construction hereinafter given.

In the drawings—Figure 1 is a perspective view of the flat iron embodied in my invention. Fig. 2 is a side elevation of the same showing a portion broken away. Fig. 3 is a front plan view of the handle. Fig. 4 is a top plan view of the body portion of the iron. Fig. 5 is a view in vertical section of the body portion of the flat iron, taken along the line 5—5 of Fig. 4, looking in the direction of the arrow.

As shown in the drawings, my invention comprises a flat iron consisting of a body portion 6 and a handle 7. The body portion 6 is cast in a solid mass and the handle 7 comprises the vertical members 8 and 9, the base section 10, and the handle section 11. The vertical members 8 and 9 are provided with wedge-shaped portions or lugs 12 and 13, the lug 13 is of the same form and construction as the lug 12. The body-section 6 is provided with the openings 14 and 15; the opening 14 is square in section at its rear and has its top contracted towards the front to receive the wedge-shaped portion 12 of the vertical member 8. Correspondingly, the opening 15 which is at the heel of the body portion 6 is cut away at its rear as indicated by the numeral 16 in order to receive and guide the wedge-shaped portion 13 at the bottom of the upright member 9, which is thrust forward into place within the front portion of the opening 15, which is contracted at its top as indicated by the numeral 17 in order to register with the shape of the wedge-shaped portion or lug 13.

When the handle has been slipped into position within the body portion 6, it is secured therein by means of the latch 18, which is mounted upon the inner face of the vertical member 8 by means of the pin 19. The latch 18 is provided with the finger catch 20 by

means of which the latch 18 is raised to permit the handle 7 to be slipped toward the heel of the body portion 6, to permit of the removal of the wedge-shaped portions 12 and 13 from their seats within the openings 14 and 15.

By means of the described structure the user of the flat iron by exerting a finger pressure beneath the catch 20 and pulling the handle 7 toward the heel of the body portion 6 can instantly detach the handle from the body portion by the use of one hand, and may immediately replace the handle within another body portion by retaining the finger catch 20 in its raised position, inserting the wedge-shaped portions or lugs 12 and 13 in the openings 14 and 15, pulling the handle 7 forward until the wedge-shaped portions 12 and 13 are seated in the forward portions of the openings 14 and 15 and register therewith, and then releasing the finger catch 20 to drop the latch 18 in place in the rear portion of the opening 14, thus locking the handle 7 in place on the body portion 6. The latch 18 being vertically mounted is adapted to fall in position in the rear portion of the opening 14, when in register with the said opening 14, of its own weight, and when the handle 7 is placed in proper position above the body portion 6, the latch 18 will automatically drop into its locked position.

Having fully described my invention, what I claim as new and desire to have secured to me by the grant of Letters Patent, is:

In a flat iron, the combination of a base or body portion 6 having a plurality of openings 14 and 15, the rear portion of said openings being square in section, the front portions of said openings having their tops contracted; a handle 7 comprising vertical members 8 and 9, base section 10 and handle section 11; wedge-shaped portions 12 and 13 formed integral with said vertical members 8 and 9 respectively and adapted to engage the front portion of the openings 14 and 15; a latch 18 mounted upon the inner face of the vertical member 8 by means of the pin 19, and adapted to register with the rear portion of the opening 14 when the wedge-shaped member 12 is in normal position within the same, to lock the handle 7 securely on the body por-



tion 6; and a finger-catch 20 secured to and projecting at right angles from said latch, whereby the same is raised to permit the removal of the handle from the base, substantially as described and for the purpose set forth.

In testimony whereof, I have signed my

name to this specification, in presence of two subscribing witnesses.

FRANK A. BONROE.

Witnesses:

ALFRED A. EICKS,  
WALTER C. STEIN.