

No. 808,428.

PATENTED DEC. 26, 1905.

A. T. BEACH.
SAD IRON.

APPLICATION FILED MAY 28, 1904.

Fig. 1.

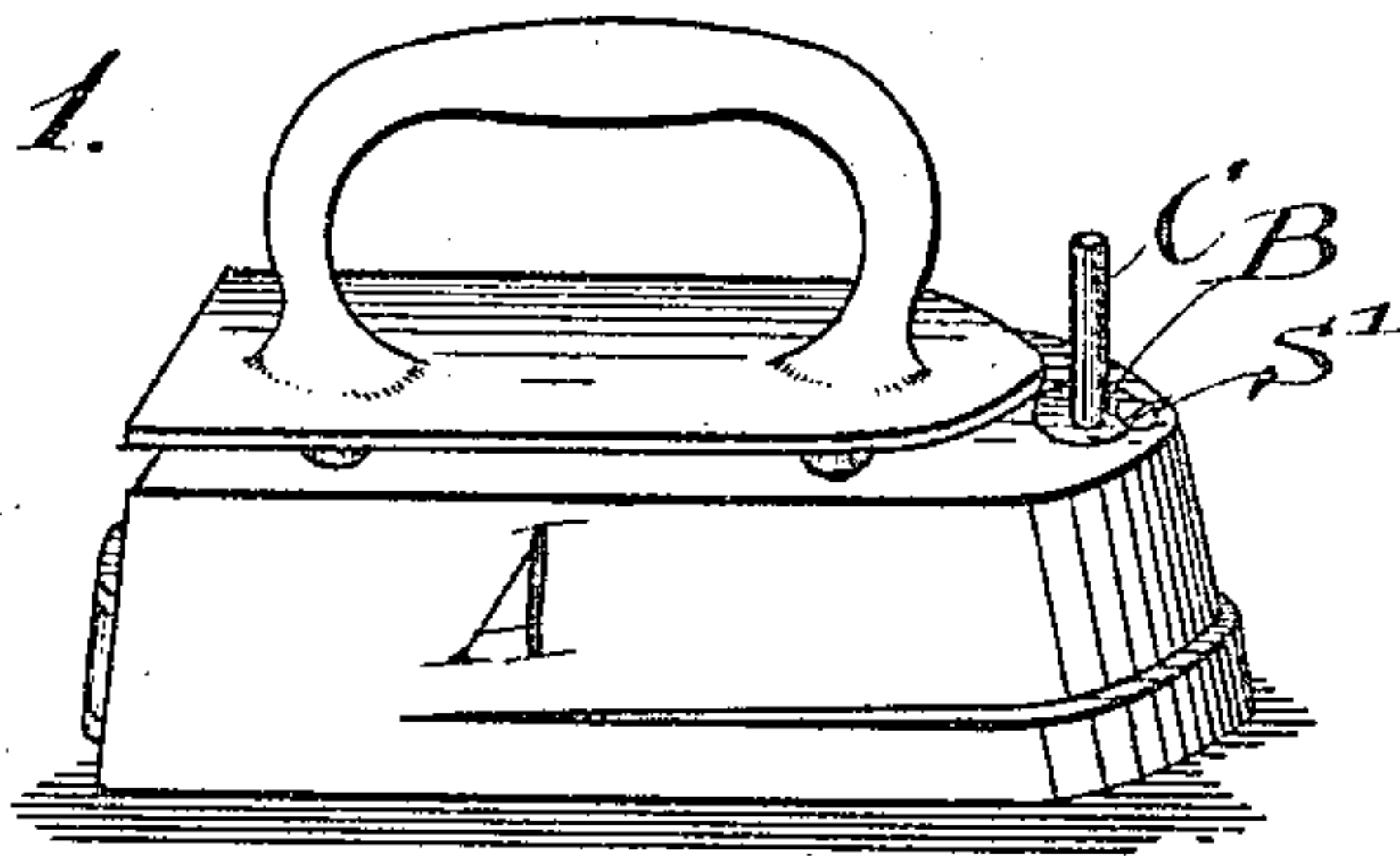


Fig. 2.

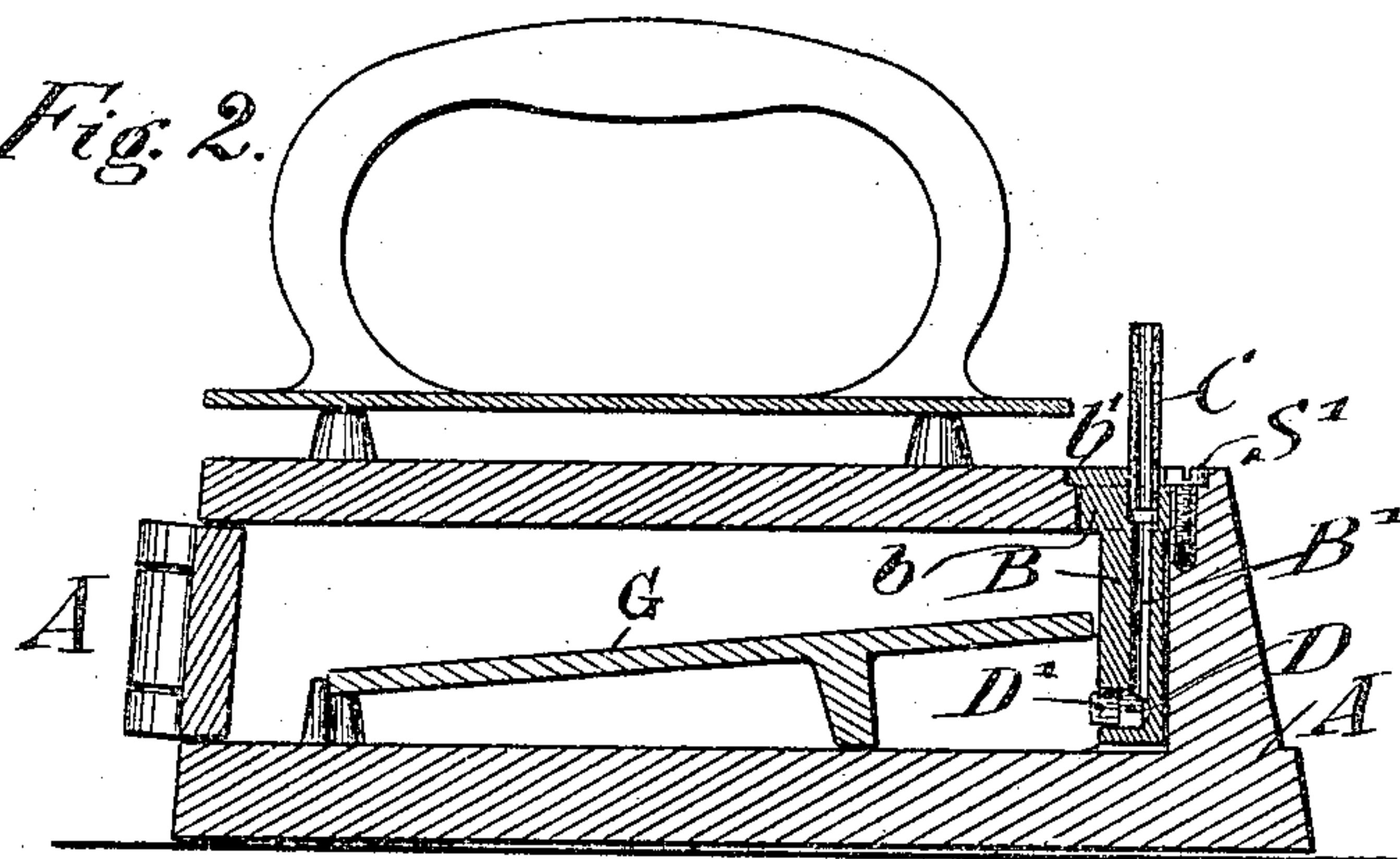


Fig. 3.

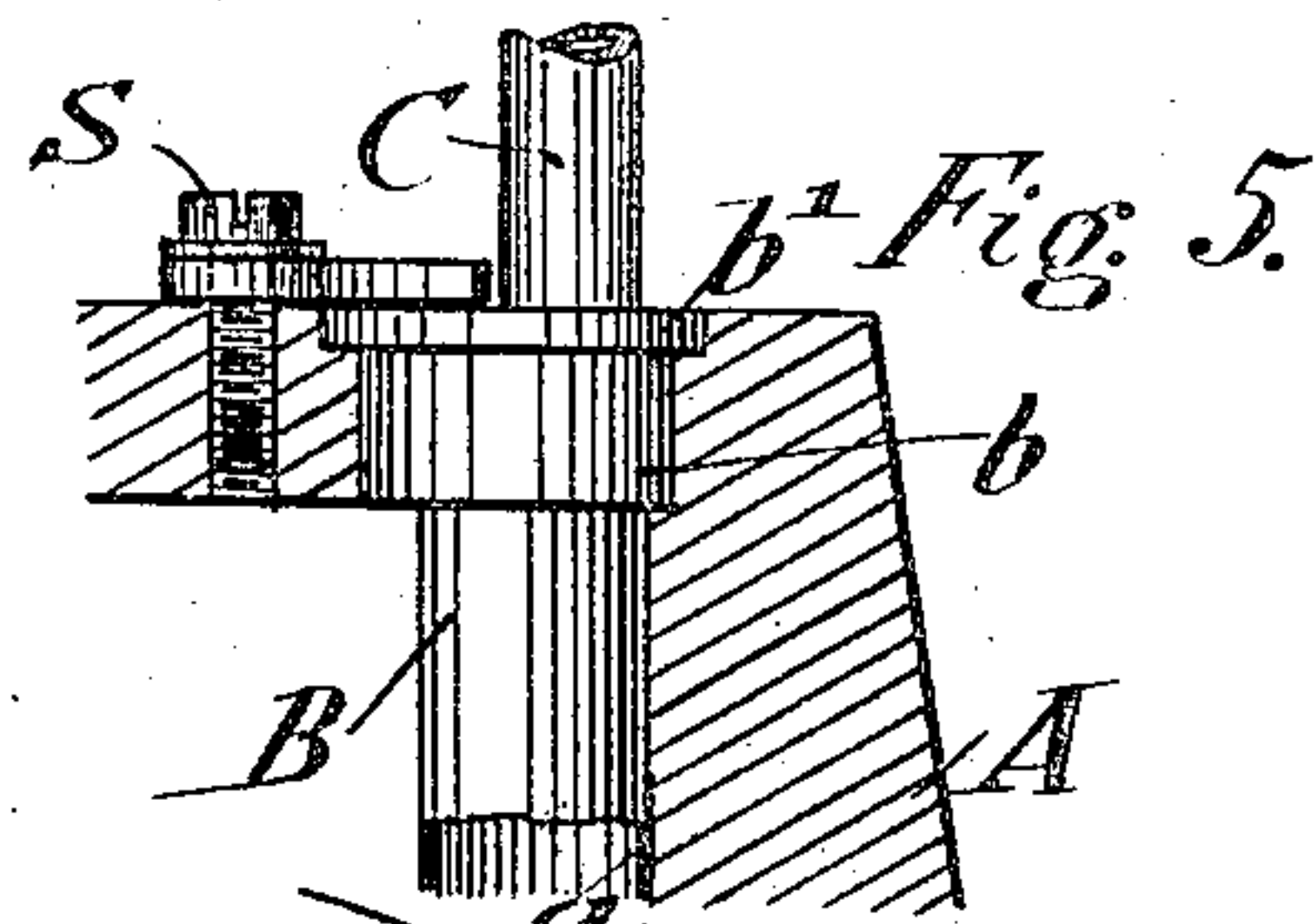
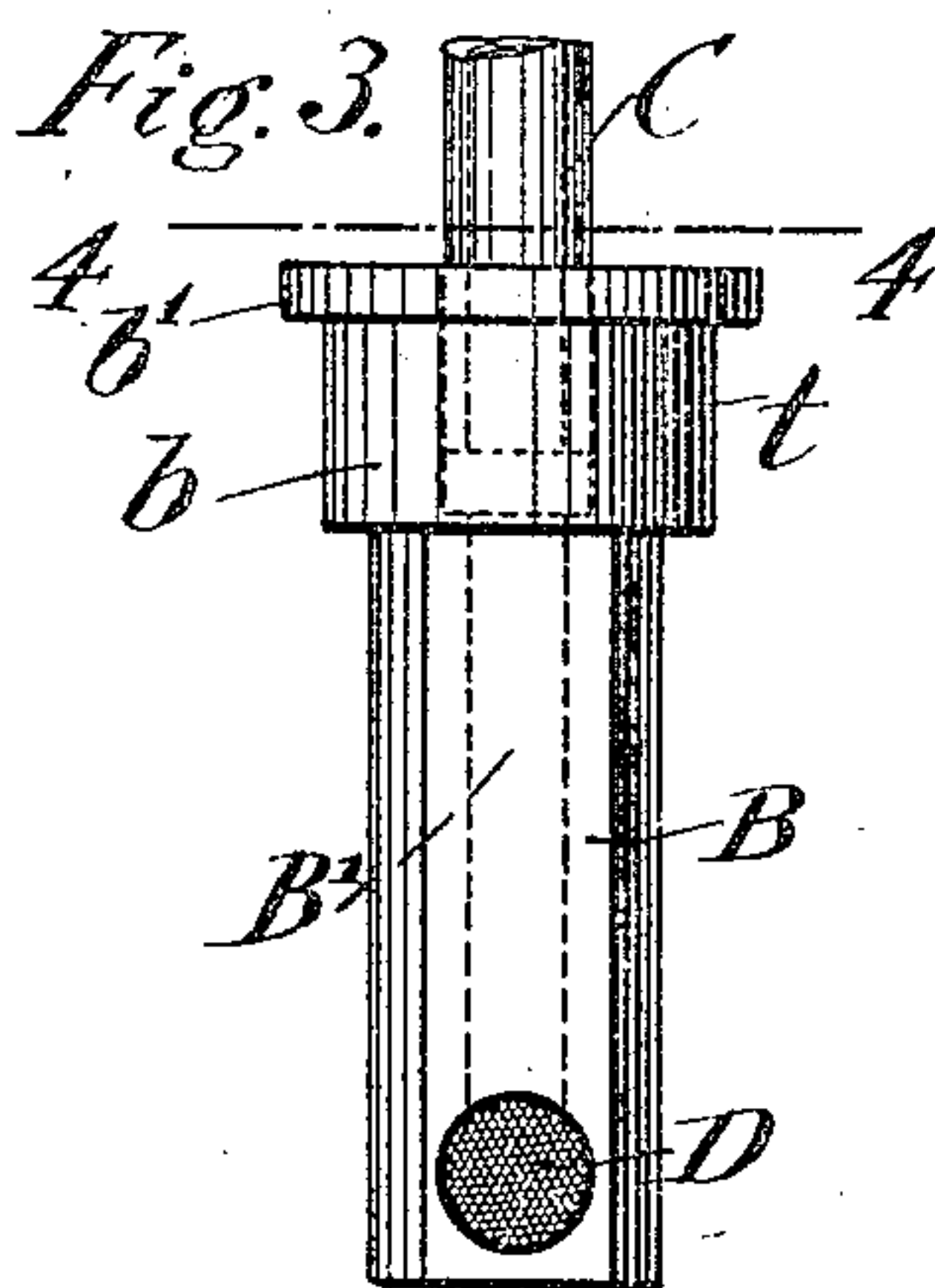
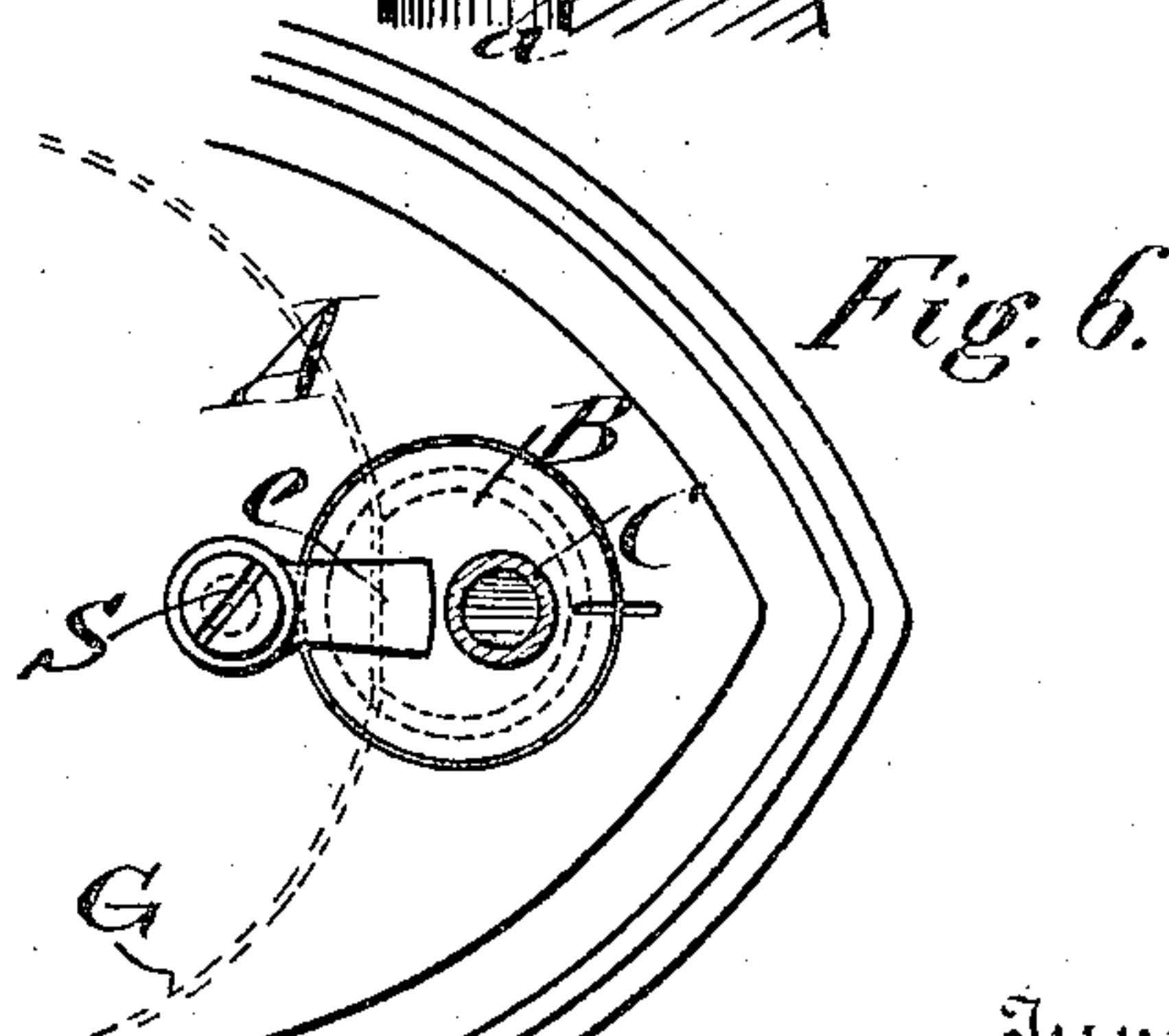
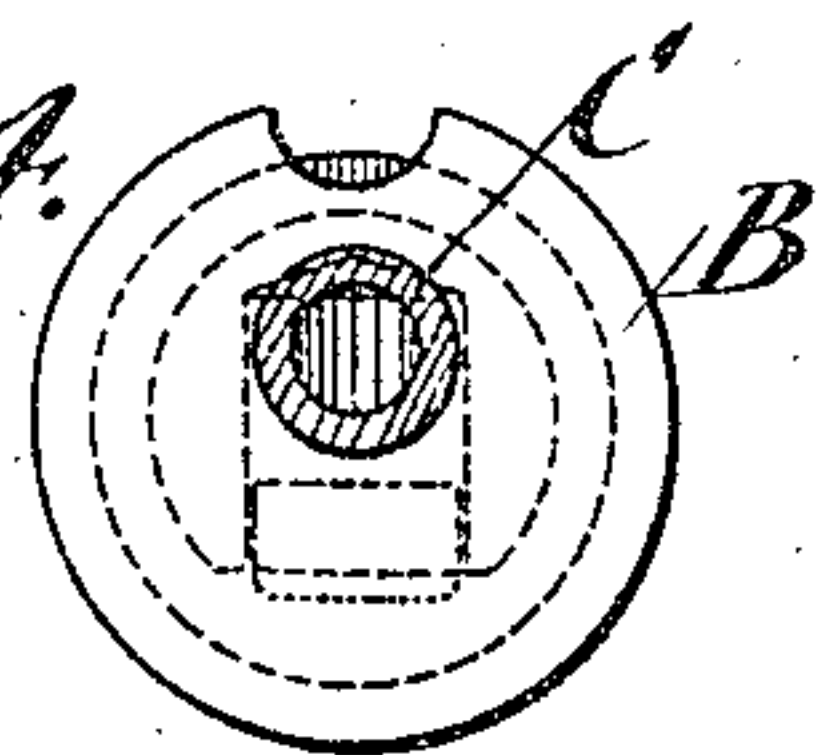


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

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SAD-IRON.

No. 808,428.

Specification of Letters Patent.

Patented Dec. 26, 1905.

Application filed May 28, 1904. Serial N^o 210,271.

To all whom it may concern:

Be it known that I, ARTHUR T. BEACH, a citizen of the United States, residing in New York, borough of Brooklyn, in the State of New York, have invented certain new and useful Improvements in Sad-Irons, of which the following is a specification.

This invention relates to certain improvements in the sad-iron for which Letters Patent were granted to me heretofore on August 13, 1901, No. 680,216. In sad-irons of that class a burner-head consisting of a wire-gauze or reticulated sheet metal which is inserted into the gas-supply channel is employed. This burner head or cap has to be replaced from time to time, as it is corroded by the heat of the flame and obstructed by sediment, &c. It is therefore necessary to return the sad-iron to the factory for the insertion of a new burner-head, which cannot be accomplished without removing the interior deflecting-plate and then the worn burner-head before replacing the latter by a new one.

The object of this invention is to obviate these defects and to furnish an improved burner for sad-irons in which a new burner-head can be conveniently inserted by the user without the necessity of returning the sad-iron to the factory; and with these ends in view the invention consists in the novel features and combinations of parts, which will be fully described hereinafter and finally pointed out in the claims.

In the accompanying drawings, illustrative of one embodiment of the invention, Figure 1 is a perspective view of my improved sad-iron. Fig. 2 is a vertical longitudinal section drawn on a larger scale. Fig. 3 is a side view of the burner detached. Fig. 4 is a horizontal section of the same on line 4-4, Fig. 3; and Figs. 5 and 6 are detail views of the burner, showing different means for attaching the same to the toe of the sad-iron.

Similar letters of reference indicate corresponding parts throughout the several views.

Referring to the drawings, A indicates the body of my improved self-heating sad-iron, which is made of the usual size and shape. The body is provided in its front part with a vertical cylindrical bore *a*, into which is inserted a detachable burner-tube B, of essentially cylindrical shape, provided with an annular upper shoulder *b'*, which rests throughout its lower face on a shoulder formed by an upper enlarged portion of the bore, while a

second lower annular shoulder *b* rests throughout a part of its lower face on a second shoulder formed in the bore at the side nearest the toe of the iron, as clearly shown in Fig. 5. The upper end of the burner-tube is provided with an interior screw-thread for inserting the gas-supply pipe C. The gas-outlet D of the tubular channel is arranged at right angles to the bore B' of the burner-tube and is of larger diameter than the same, so as to permit the ready insertion of the burner-head D', which is made of wire-gauze, reticulated sheet metal, or other suitable material. The burner tube is held in position in the bore or socket of the body A by means of latch *e*, pivoted to a screw S, as shown in Figs. 5 and 6, or a countersunk screw S', which engages a recess in the rim of the burner-tube, as shown in Figs. 1 and 2, or in any other suitable manner. When it is desired to repair the burner-head, the fastening device for the burner-tube is released and the burner-tube detached bodily from the bore or socket in the body A. The worn-out burner-head can then be readily removed and a new one inserted into the lateral opening in the lower part of the burner-tube, after which the burner-tube is replaced in the bore or socket and locked in position therein.

The burner-tube is slightly flattened at one side, so as to be flush with the interior wall of the body A, as indicated by the inner dotted line in Fig. 6, and to abut against the squared end of a suitable heat-concentrating baffle-plate G, supported at the interior of said body, whereby the axial turning or displacement of said burner-tube is prevented without other locking means.

By employing the improved burner-tube tailors and other users of the sad-iron can readily insert a new burner-head at any time without returning the sad-iron to the factory for repairs.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A sad-iron comprising a hollow body provided with a bore or socket, a burner-tube fitting in said socket and having a flattened side portion, and a baffle-plate within said body having a squared end abutting against said flattened side portion.

2. In a sad-iron, the combination, with a hollow body provided in its toe portion with a bore or socket, of a burner-tube fitting in

said socket and having a flattened portion disposed toward the interior of the body, and a heat-concentrating baffle-plate supported at the interior of said body and abutting against
5 said flattened portion of the burner-tube in order to prevent the axial turning of the latter in said bore or socket.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

ARTHUR T. BEACH.

Witnesses:

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