

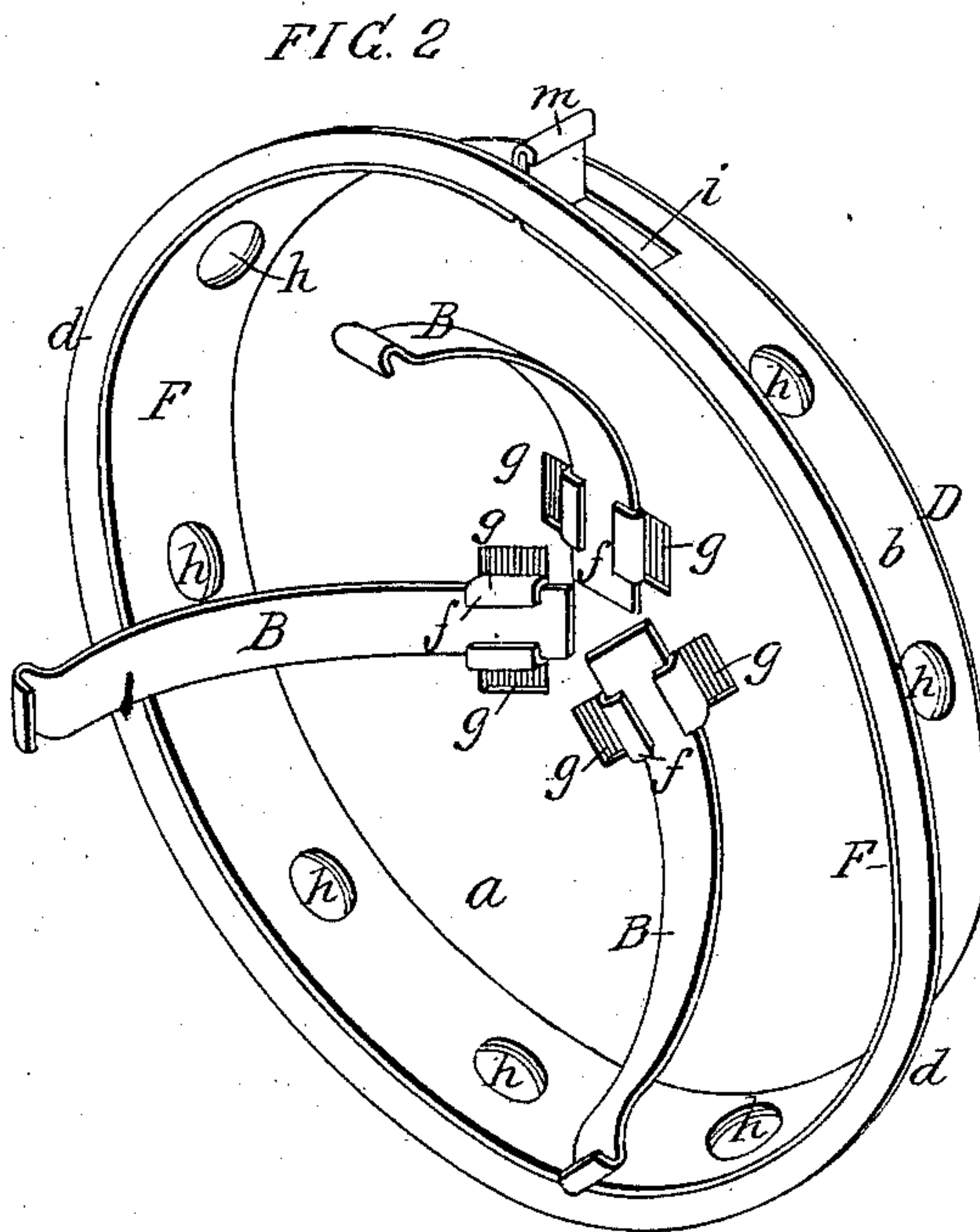
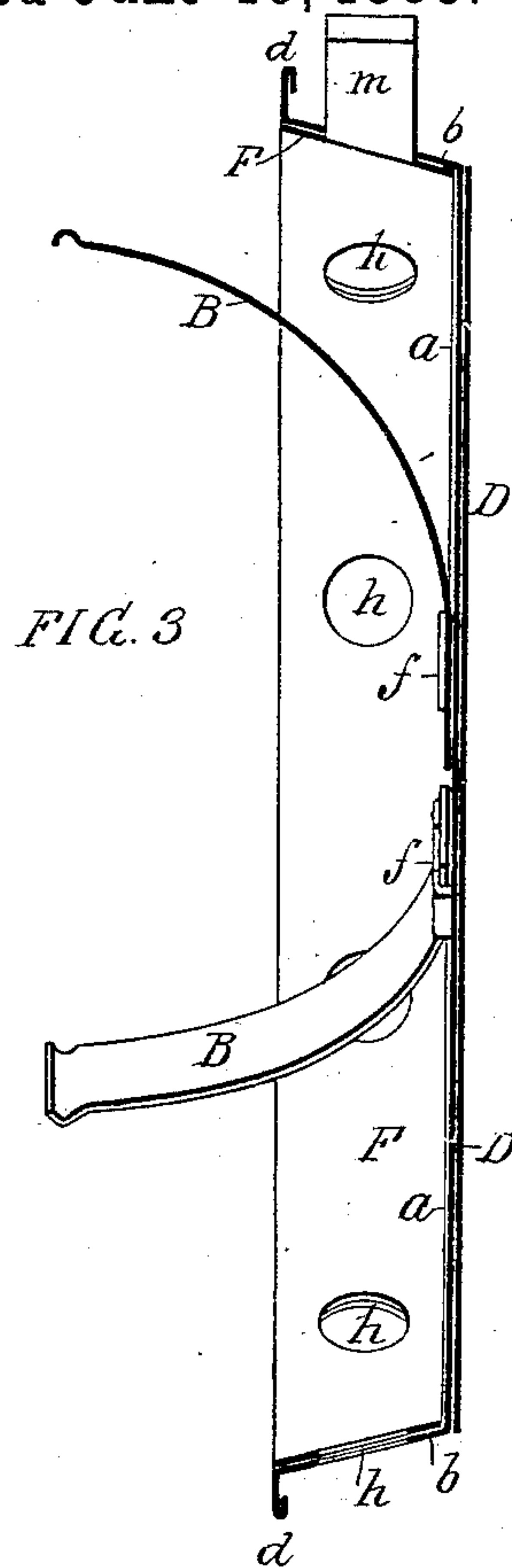
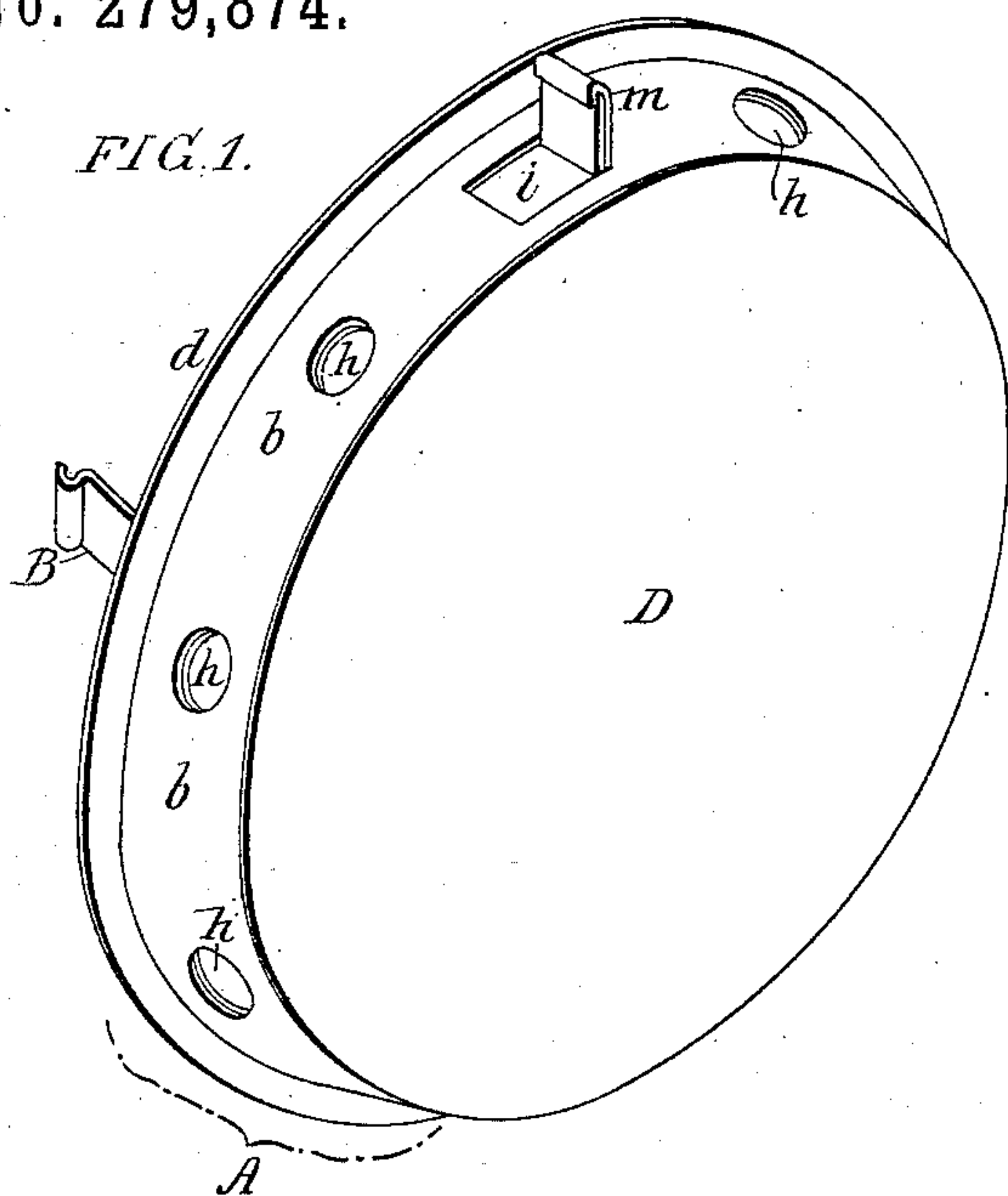
(No Model.)

J. F. LOCKWOOD.

FLUE STOP.

No. 279,874.

Patented June 19, 1883.



WITNESSES:

James F. Tobin
Harry Drury

INVENTOR:

James F. Lockwood
by his Attys
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UNITED STATES PATENT OFFICE.

JAMES F. LOCKWOOD, OF PHILADELPHIA, PENNSYLVANIA.

FLUE-STOP.

SPECIFICATION forming part of Letters Patent No. 279,874, dated June 19, 1883.

Application filed February 12, 1883. (No model.)

To all whom it may concern:

Be it known that I, JAMES F. LOCKWOOD, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain
5 Improvements in Flue-Stops, of which the following is a specification.

One object of my invention is to cheaply construct a neat device for closing the ends of stove-pipe flues, &c., a further object being to
10 combine with a flue-stopper a simple form of damper for closing or exposing the ventilating-openings in the device.

In the accompanying drawings, Figure 1 is a perspective view of the front of my improved
15 flue-stopper; Fig. 2, a perspective view of the rear of the same; and Fig. 3 a sectional view on a larger scale than Figs. 1 and 2.

A is a dished plate comprising the front *a*, side *b*, and rim *d*, the whole being somewhat
20 larger in diameter than the flue which it is intended to close.

From the front *a* of the plate are struck up lugs *f*, which are bent around and serve to confine the springs B, the latter projecting
25 rearwardly from the plate, and being thrust into the flue, so as to bind against the sides of the said flue, and thereby hold the plate A in place over the mouth of the same.

To cover the openings *g*, made by striking
30 up the lugs *f* from the plate, I secure to the front *a* of the plate a disk or sheet, D, of paste-board or other material, which may be as decorative in character as the taste of the manufacturer suggests. In the side *b* of the plate A
35 are formed ventilating-openings *h*, which are controlled by a damper consisting of a perfo-

rated strip, F, of metal, bent to the shape of a ring and adapted to the interior of the dished plate, as shown in Fig. 2, the ends of the strip passing through an opening, *i*, in the side of
40 the plate, and being locked together, so as to form a handle, *m*, whereby the damper can be manipulated.

Instead of forming a damper in this way, the ends of the strip may be soldered or other-
45 wise secured together, so as to form a continuous ring, and the handle *m* may be struck up from said ring, the construction shown, however, being preferred.

The plate A, springs B, and strip F are ordi-
50 nary sheet-metal press-work, and can be rapidly and economically manufactured, and as very little hand-labor is required in fitting the parts together, the device can be made at small expense.

I claim as my invention—

1. The combination of the springs B, the plate A, having wings *f* struck up therefrom, and the disk D, as set forth.

2. The combination of the dished plate A, 60 having openings *h* and *i*, with the damper-ring P, adapted to fit snugly to the interior of said dished plate, and having similar openings, *h*, and a tongue, *m*, adapted to the opening *i*, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two sub-
65 scribing witnesses.

JAMES F. LOCKWOOD.

Witnesses:

HARRY DRURY,
HENRY HOWSON, Jr.