

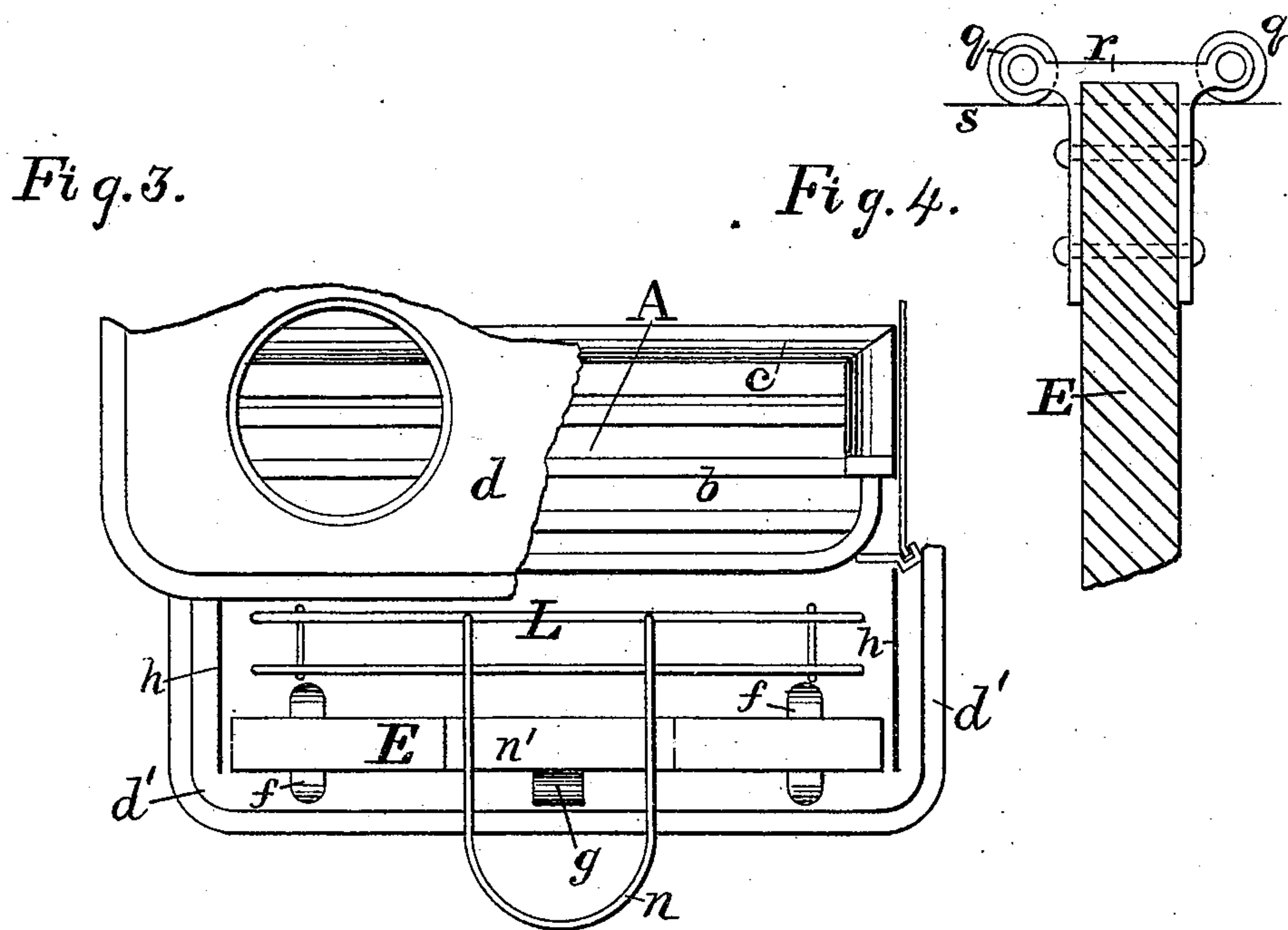
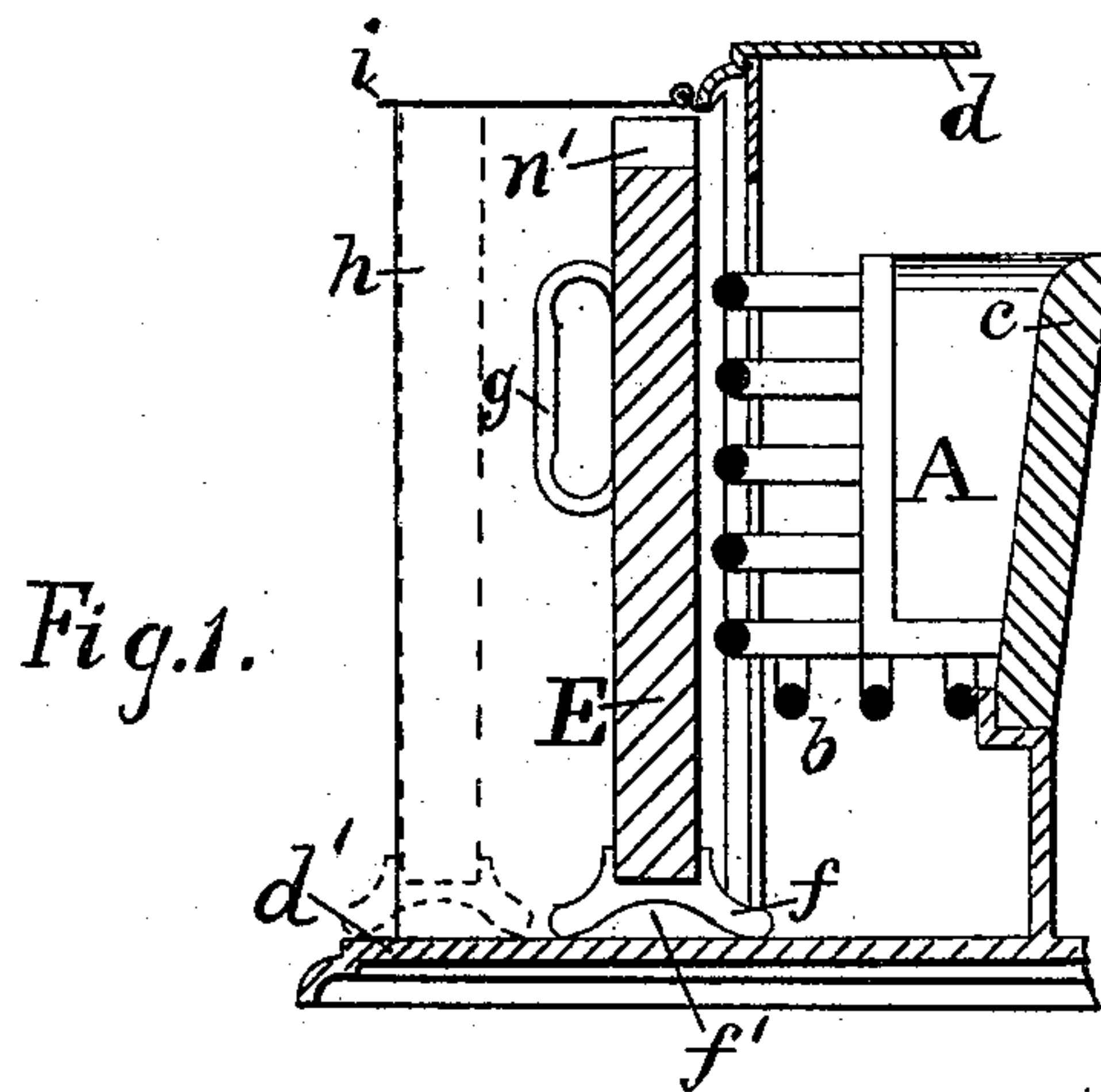
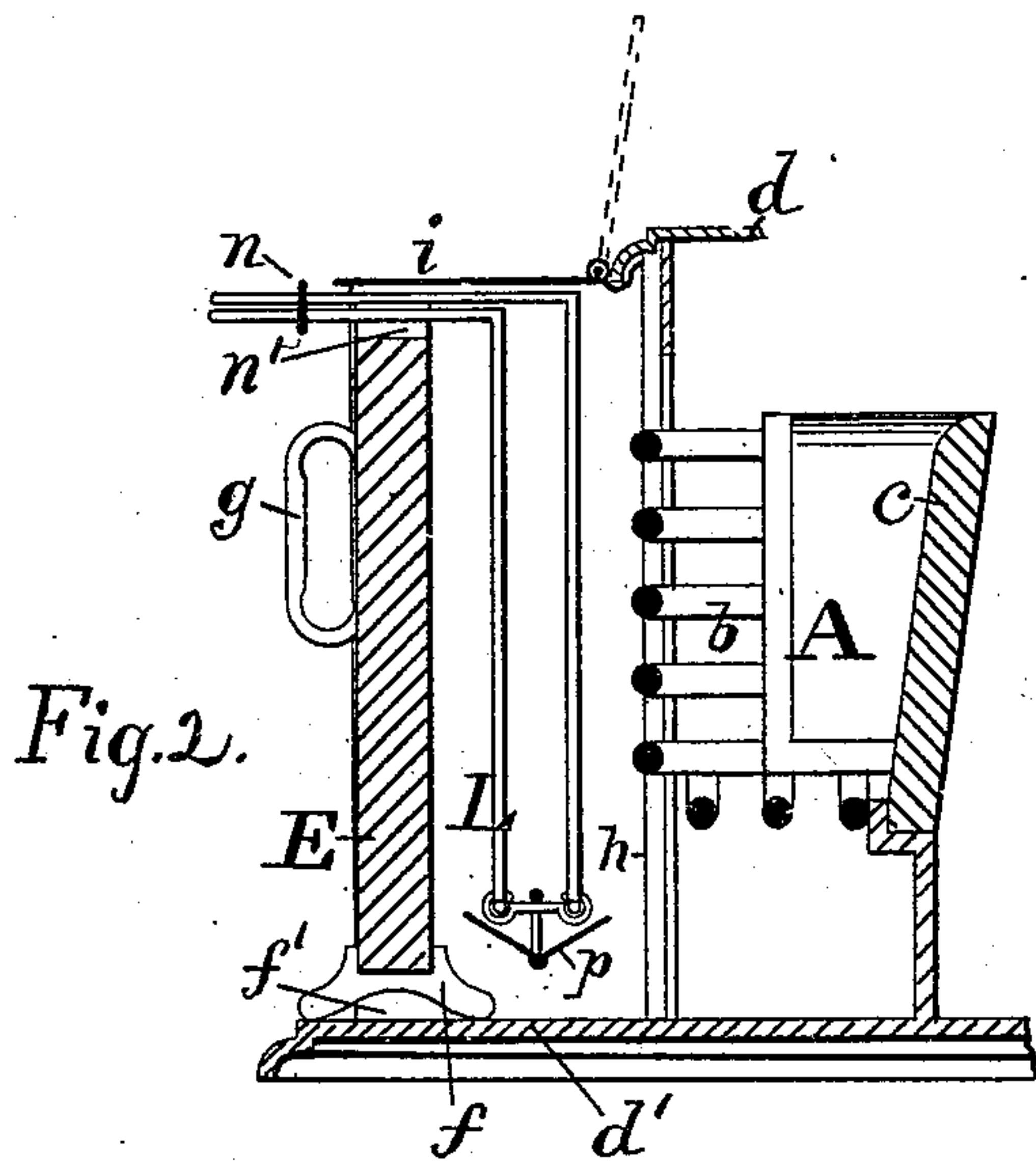
(No Model.)

D. A. DICKINSON.

BROILER.

No. 251,531.

Patented Dec. 27, 1881.



*Witnesses:*  
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# UNITED STATES PATENT OFFICE.

DAVID A. DICKINSON, OF HARRISONVILLE, MARYLAND.

## BROILER.

SPECIFICATION forming part of Letters Patent No. 251,531, dated December 27, 1881.

Application filed May 25, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, DAVID A. DICKINSON, a citizen of the United States of America, residing at Harrisonville, in the county of Baltimore and State of Maryland, have invented certain new and useful Improvements in Broilers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

One of the objects of my invention is to provide means for use in connection with an open grate or cook-stove by which meat may be broiled on opposite sides at one and the same time. The means which I have devised to attain the ends in view will first be described, and the invention then designated in the claims.

In the drawings hereto annexed, Figures 1 and 2 are side views, in vertical section, of the fire-chamber and grate of an ordinary stove with my broiling-stone attachment in position. Fig. 3 is a top view of same, the hinged cover of the attachment not being shown. Fig. 4 illustrates the manner of mounting a large broiling-stone for hotel and restaurant use.

The letter A designates the fire-chamber of an ordinary stove or range; b, the grate-bars; c, the back lining, and d the stove-top.

E designates a slab of some suitable refractory stone, preferably steatite, commonly called "soapstone." This stone slab is placed upright, resting on one edge, with its broad surface in front of the fire-grate. It is mounted, if small or of moderate size, on feet f, which rest on the stove-hearth d' and support the lower edge of the stone above the hearth, leaving an opening, f', below to admit air, which supplies the draft for the fire. A handle, g, is attached to facilitate moving the stone. For hotel or restaurant use, where much broiling is done, and where stoves or ranges having large fronts are used, a much heavier stone may be required.

Fig. 4 of the drawings illustrates a method of suspending a heavy stone before the fire-grate, so as to permit of readily moving it toward or from the grate.

One or two rollers, q, are mounted on a frame,

r, which is suitably secured to the stone, preferably at each of the upper corners. These rollers travel on a horizontal bar, s, attached to each upright plate h.

A sheet-iron or other suitable metal plate, h, is attached to or placed upright and edge-wise to the stove front, projecting outward, one such plate being on each side of the fire-grate. The ordinary width of these upright side plates in practice is about four inches, and the lower edge of the plates rests upon the stove-hearth, while their upper edge is coincident, or nearly so, with the top of the stove.

A cover, i, for the broiling attachment is so applied to the front edge of the stove top that it may be hinged thereat. When in a horizontal position the ends of this cover rest upon the upper edges of the two upright side plates. The vertical edges of the stone slab are in near position to the upright plates, as shown in Fig. 3, and the top edge of the stone is immediately below the hinged cover i.

Fig. 1 shows the stone standing close to the fire-grate, which is the position it will occupy while being heated preparatory to the broiling operation. The dotted lines in the same figure show the location of the stone with respect to the grate when the broiling is going on.

Fig. 2 shows the stone in the latter position, which, in practice, for an ordinary-size broiler, is three or four inches from the grate. The broiler, consisting of a wire clamp, L, is suspended in the hot chamber formed between the stone and the fire-grate. The handles n of the broiler rest in a notch, n', in the top edge of the stone, and thence project from under the hinged cover, as shown in Fig. 2. p is a trough attached to the broiler to receive the drippings from the meat.

It will be seen that in practice the broiler hangs within a hot box or chamber, the hot soapstone on the one side and the fire-grate containing the live coals on the other. In this position the meat is, as it were, between two fires, and is very rapidly broiled on both sides at once.

The stone serves, in some measure, as a "blower," to keep the coals in the grate in a state of glow, and the smoke arising during the operation of broiling does not escape in the room, but is directed by the draft into the

stove-grate, and as the meat is cooked on both sides at once there is no necessity of turning the broiler, as ordinarily done, and the stove or range top is free for cooking utensils.

5 Having described my invention, I claim and desire to secure by Letters Patent of the United States—

10 1. In a meat-broiler, the combination, with the fire-grate of a stove, of a slab of stone placed upright on its edge, with the broad surface in front of the grate, but at a short distance therefrom, to form a chamber between the stone and the grate, and a broiler supported in the chamber, as set forth.

15 2. In a broiler, the combination, with a stove-grate, of a stone slab placed upright on its edge, with its broad surface in front of the grate, to-

ward or from which it is adapted to be moved, as described, an upright plate at each vertical edge of the stone, and placed edgewise to the grate, and a cover to rest upon the upright plates, as set forth. 20

3. In a broiler, the combination, with a fire-grate of a stove, of a movable stone slab in front of the grate, an inclosure about the vertical sides and top of the slab, and an opening 25 below the slab to admit air, as set forth.

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

D. A. DICKINSON.

Witnesses:

CHAS. B. MANN,  
JNO. T. MADDOX.