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Patented Aug. 12, 1902.

W. H. ETCHESON & L. R. WITHERELL.
ATTACHMENT FOR STOVEPIPES.

(Application filed Mar. 15, 1901.)

(No Model.)

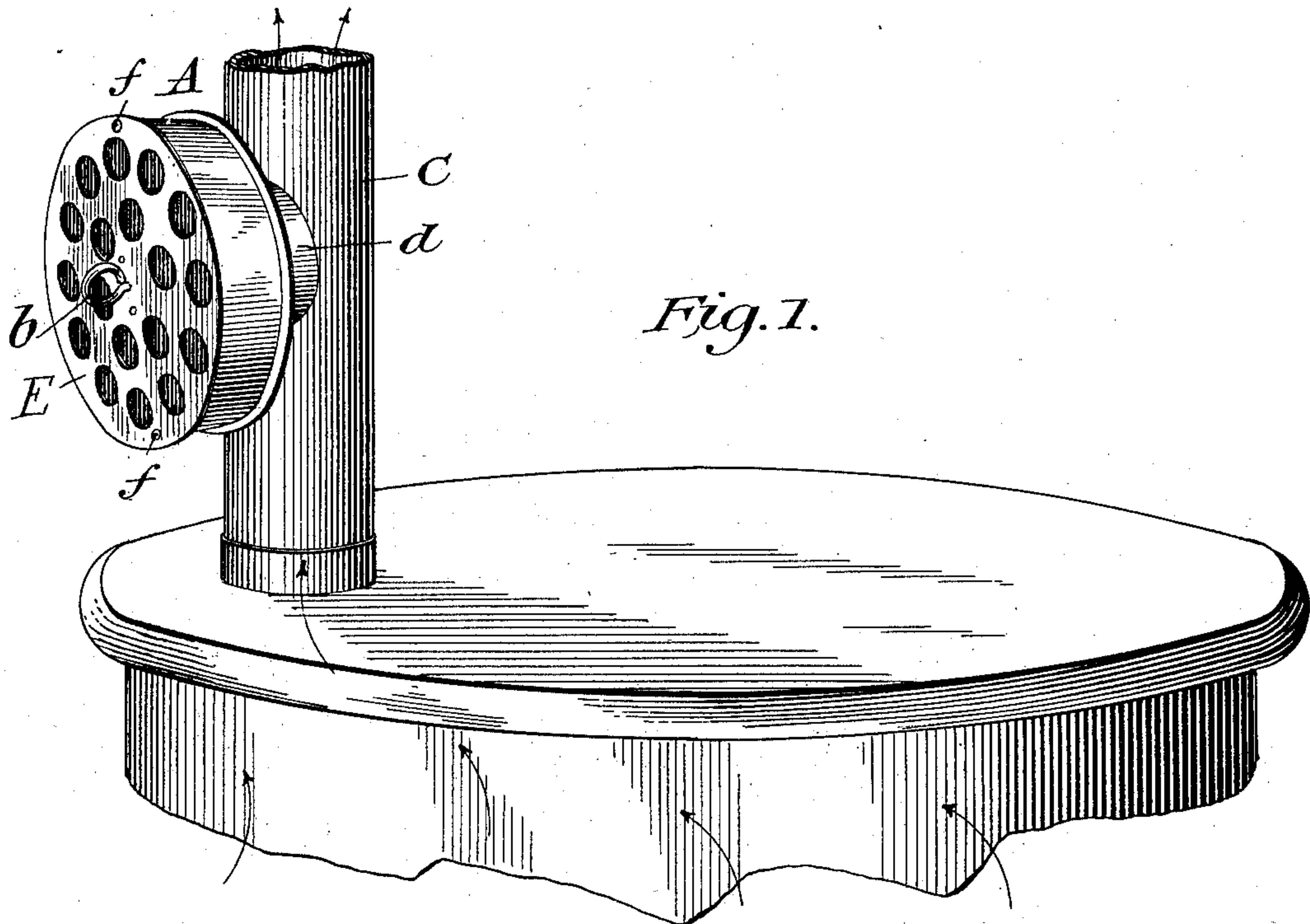


Fig. 1.

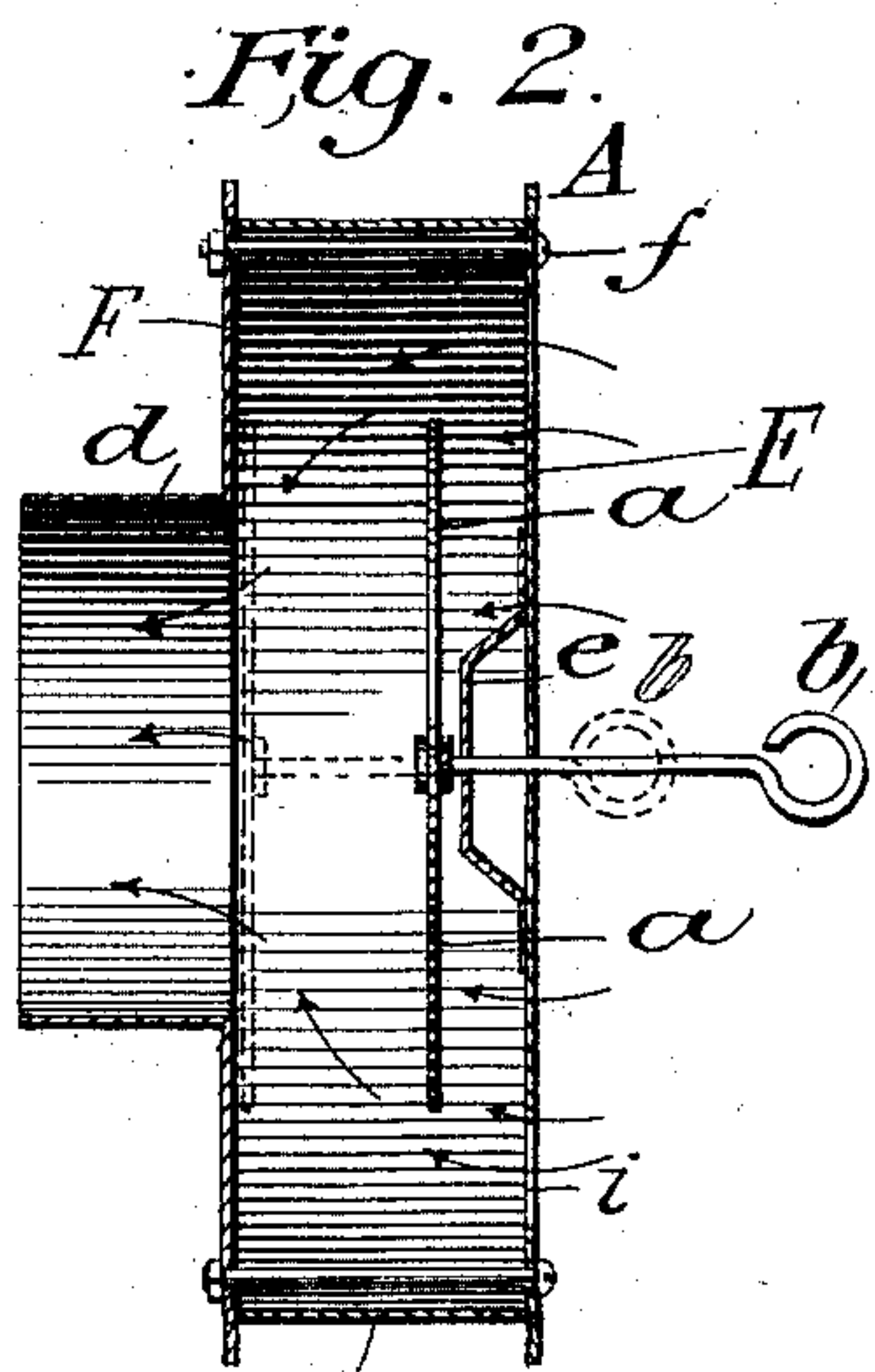


Fig. 2.

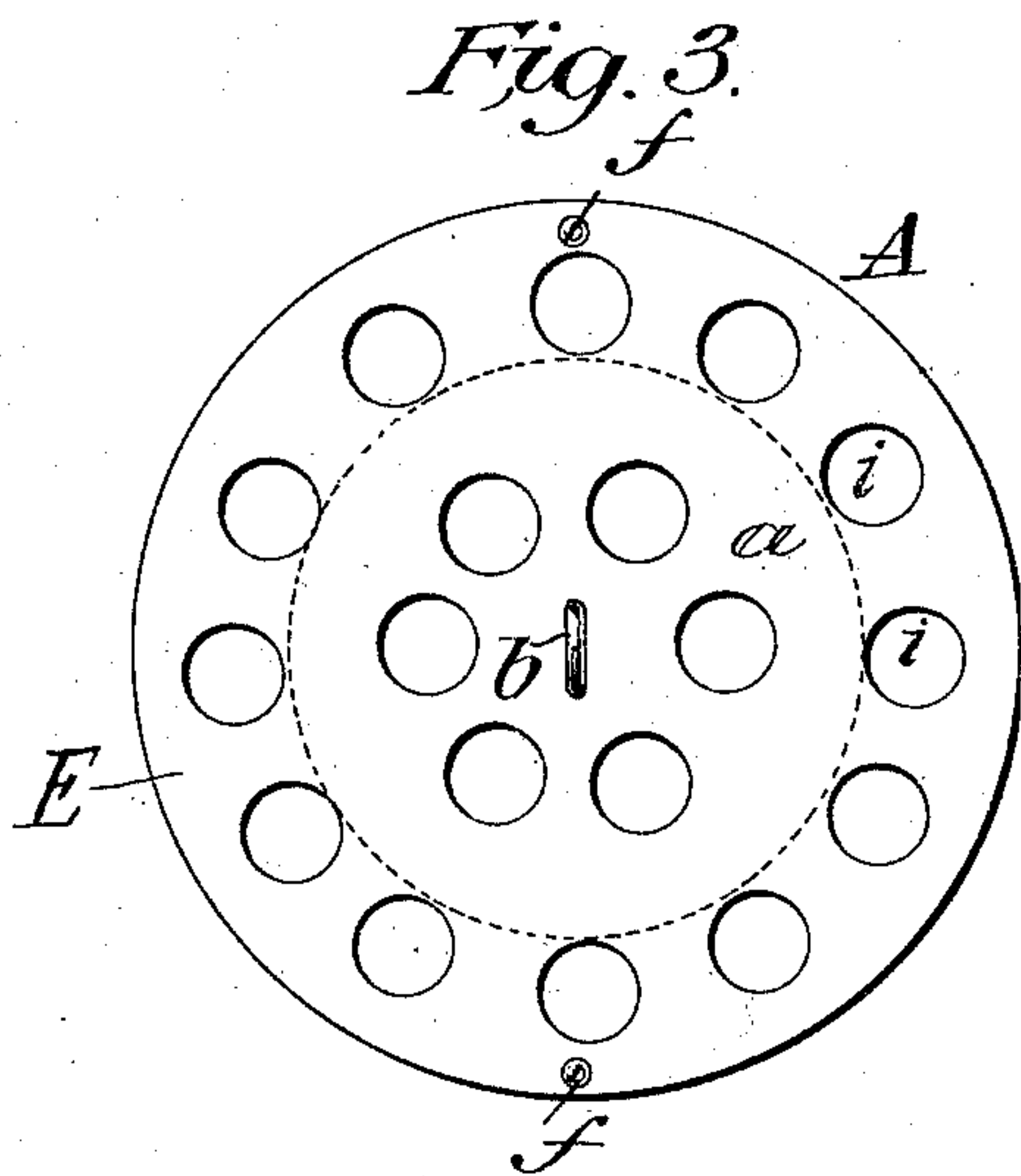


Fig. 3.

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ATTACHMENT FOR STOVEPIPES.

SPECIFICATION forming part of Letters Patent No. 706,734, dated August 12, 1902.

Application filed March 15, 1901. Serial No. 51,394. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM H. ETCHESON and LOREN R. WITHERELL, citizens of the United States, residing at Knoxville, in the county of Knox and State of Illinois, have invented a new and useful Attachment for Stovepipes, of which the following is a specification.

Our invention relates to devices for regulating combustion in stoves and analogous devices; and it consists in an apertured casing having a damper therein adapted to be attached to a stovepipe in communication therewith.

In the accompanying drawings, Figure 1 is a perspective view of a stove and pipe with our invention attached to the latter. Fig. 2 is a central vertical section, and Fig. 3 is an end elevation, of our device.

Like reference characters refer to similar parts in all the views.

The damper-casing A may be made round, oblong, or in any ornamental design, and consists of a rim B, clamped by bolts *f* or otherwise suitably secured between the end plates E and F, the latter carrying the pipe *d* or stovepipe-opening communicating with the interior of the casing. The bearing *e*, consisting, preferably, of a bowed strip of sheet metal attached at its ends to the inner face of the end plate E and provided with an aperture, forms in conjunction with the apertured end plate E a support for the operating-rod *b* of the damper *a*, whereby the latter may be reciprocated between the end plate F and the said bearing.

The end plate E is provided with a plurality of apertures *i*, the total area of which is sub-

stantially equal to the cross-sectional area of the pipe *d*, and the bearing *e* serves as a means to limit the movement of the damper, so that the latter in its extreme outward position is spaced from the said end plate E and cannot close the apertures *i* therein.

The operation of the device is apparent. When it is desired that the fire in the stove controlled by the apparatus burn freely, the damper *a* is pushed in so as to cover the end of the pipe *d*. When it is desired to check the fire, the damper is pulled out to the desired distance, and cold air entering the pipe C will retard the combustion in the stove in the well-known manner. It will be seen that in the latter position the device will act as a ventilator.

We are aware that ventilating and check dampers of various kinds are old. We therefore do not claim such damper broadly; but

What we do claim, and desire to secure by Letters Patent, is—

In a damper, the combination of a damper-casing having substantially parallel end plates, one of which is provided with apertures or perforations and with an offset bearing on its inner face, a pipe open at both ends extending from the other end plate and in communication with said casing a rod slidably mounted in said bearing and end plate and a damper at the end of said rod and at substantially right angles thereto adapted to close the end of said pipe.

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