

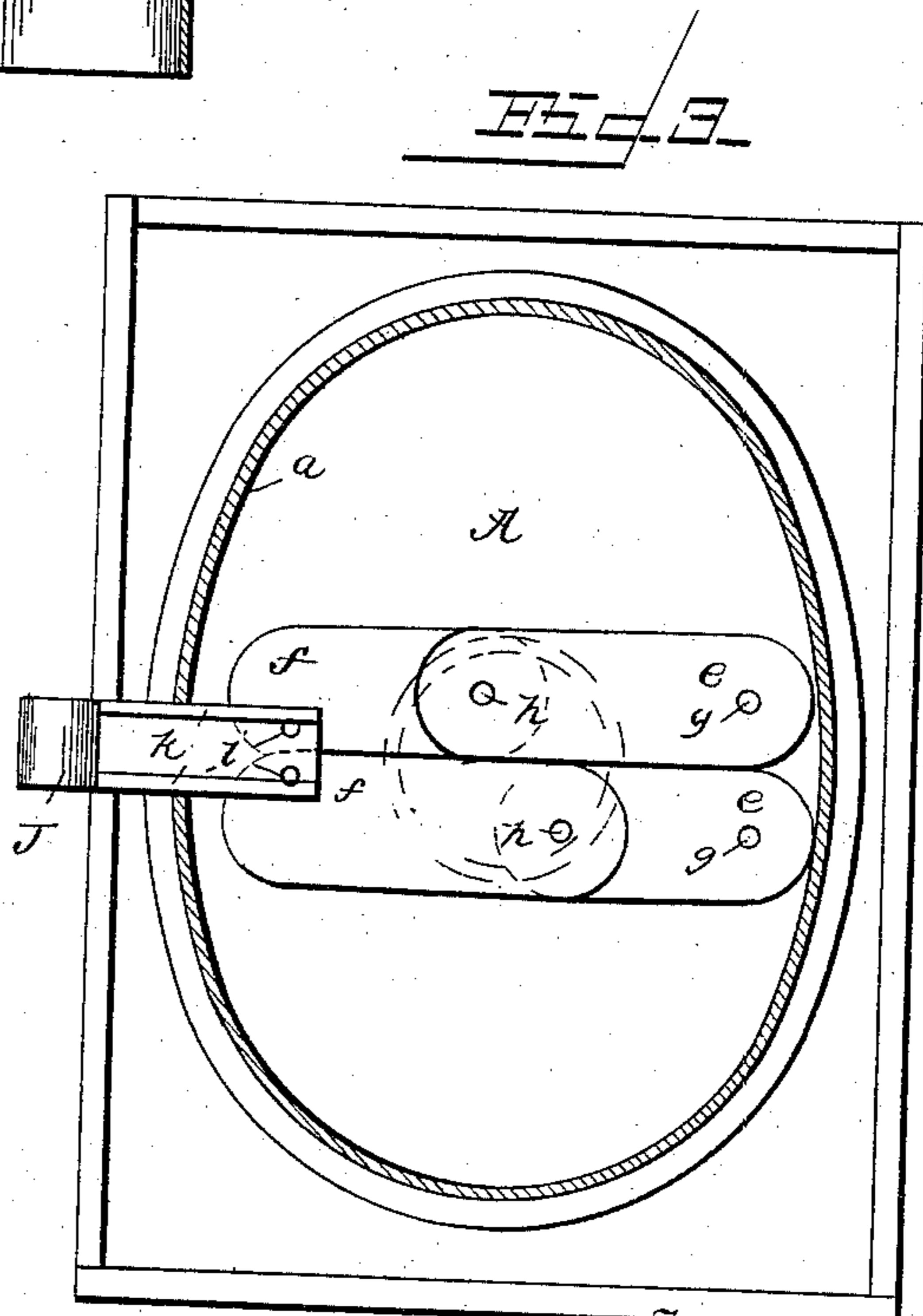
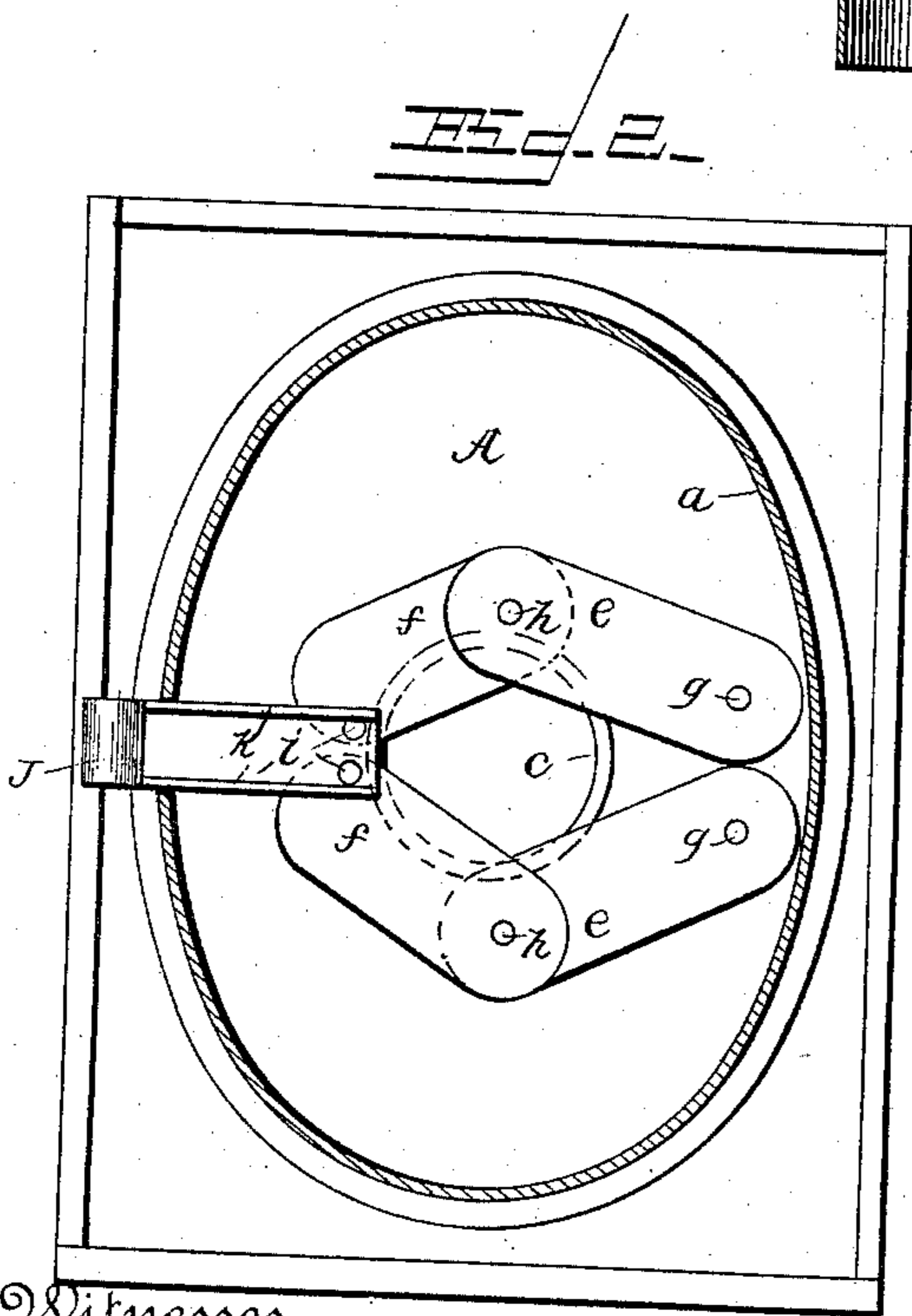
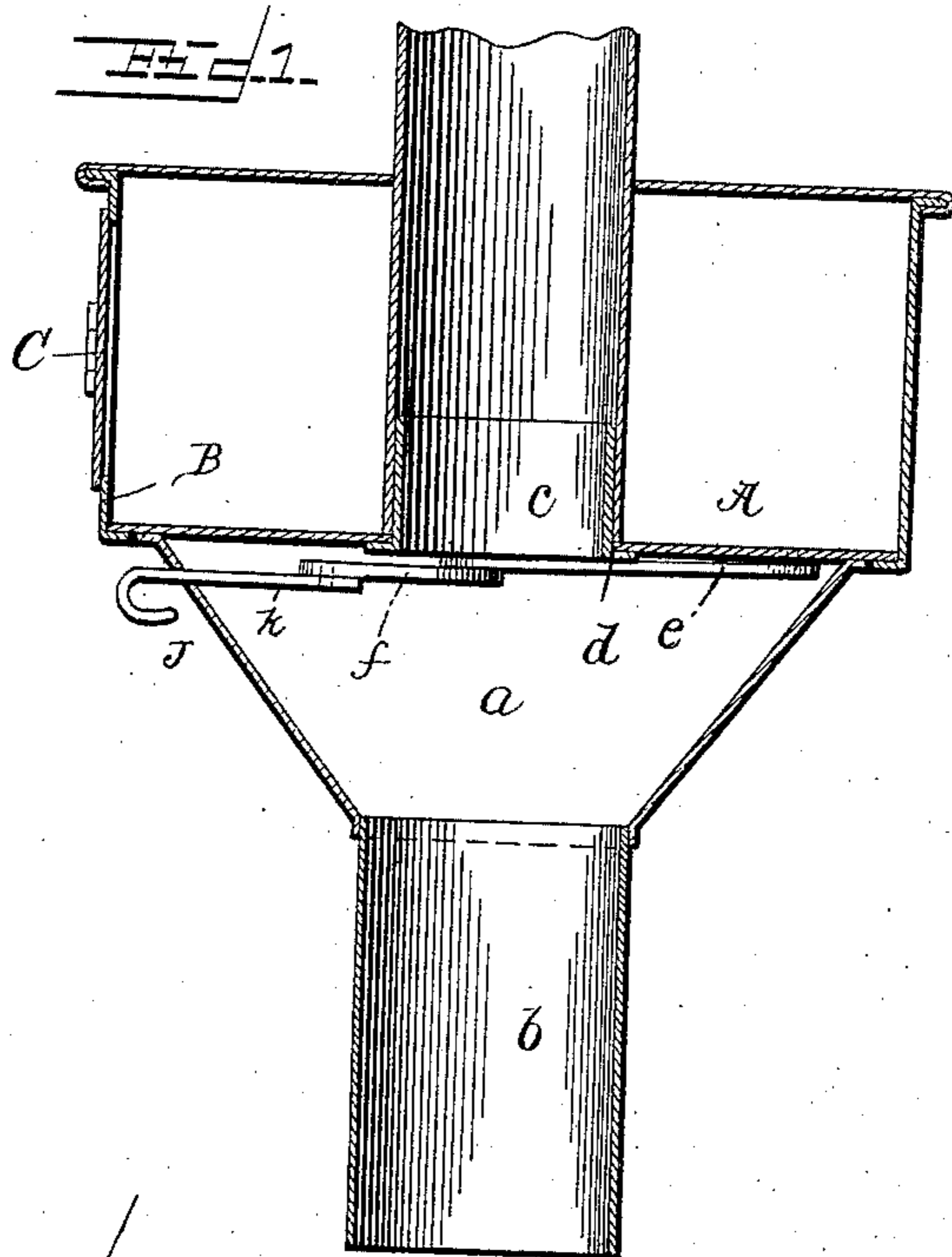
(No Model.)

W. J. & S. H. YOUNG & Z. U. KNODE.

SHELF ATTACHMENT FOR STOVE PIPES.

No. 387,277.

Patented Aug. 7, 1888.



Witnesses

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# UNITED STATES PATENT OFFICE.

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URSENUS KNODE, OF HEBRON, NEBRASKA.

## SHELF ATTACHMENT FOR STOVE-PIPES.

SPECIFICATION forming part of Letters Patent No. 387,277, dated August 7, 1888.

Application filed March 6, 1888. Serial No. 266,301. (No model.)

*To all whom it may concern:*

Be it known that we, WILLIS JEROME YOUNG, SHAFFER HOWELL YOUNG, and ZACHARIAH URSENUS KNODE, citizens of the United States, residing at Hebron, in the county of Thayer and State of Nebraska, have invented a new and useful Improvement in Shelf Attachments for Stove-Pipes, of which the following is a specification.

Our invention has reference to stove-pipe shelves; and it consists in the improved construction hereinafter described, whereby a simple arrangement is provided wherein articles may be kept warm at any desired degree and the temperature easily controlled and regulated.

In the drawings, Figure 1 is a vertical sectional elevation of a construction embodying our improvements. Figs. 2 and 3 are detail plan views of the damper, showing the same in open and closed positions.

The body of the shelf consists of the bottom plate, A, which is centrally perforated to receive the end of the stove-pipe, and the front vertical wall, B, having a rectangular opening, serving as a door-aperture, and adapted to be covered by a door, C, hinged at one side of the opening. A hood, *a*, of tapering form, is secured at its upper end to the bottom of the plate A of the shelf. The lower open end of the hood is provided with a pipe, *b*. A collar, *c*, is inserted upward through and secured in the central opening, *d*, in the plate A in alignment with the opening in the bottom and the pipe *b*. The damper consists of four horizontal plates, *e e f f*, the plates *e e* being pivoted to the plate A at their rear ends by rivets *g*. The free ends of said plates *e* are each pivotally connected by a rivet, *h*, with the inner end of one of the plates *f f*, the front ends of said latter plates being pivoted to a sliding handle, J, extending through an opening therefor in the front of the hood, by rivets *i*. It will be noticed that the handle J is provided at each side with ribs *k*, the opening in the hood being so shaped as to accommodate said ribs. This arrangement insures the proper guiding of the handle in its movements in the hood.

The arrangement of plates *e e f f*, as described,

forms a toggle-connection, having the pivot *g* as a fixed connection, so that as the handle is moved in the inner portions of the plates will recede from each other and uncover the opening in the bottom plate, A, to increase the direct draft from the opening in the bottom of the shelf. Of course the separation of the plates will be proportionate with the extent of the inward movement of the handle, and hence the degree of draft may be readily controlled and regulated.

When the damper is closed, the heat will circulate within the hood below the plate A, and thereby raise the temperature of the shelf. When the damper is open, the heat takes a direct course through the pipes.

The collar *c*, secured in the plate A, insures the direct passage of the heat through the same, the said collar serving to prevent the heat from impinging against the said plate as it passes through the opening in the same.

We claim—

1. The combination, with a stove-pipe shelf having an opening in its bottom, of a damper to close said opening, composed of a series of pivotally-connected plates secured to the under side of the shelf and a sliding handle pivotally connected to said plates, as set forth.

2. The combination, with the shelf and the hood having aligned openings, of the damper composed of pivotally-connected plates and a sliding handle connected thereto having longitudinal guide-ribs and extending through a correspondingly-shaped opening in the hood, as set forth.

3. The combination, with a stove pipe shelf having an opening, of a damper to close said opening, composed of a series of pivotally-connected plates and a handle connected to said plates, as set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

WILLIS JEROME YOUNG.  
SHAFFER HOWELL YOUNG.  
ZACHARIAH URSENUS KNODE.

Witnesses:

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