

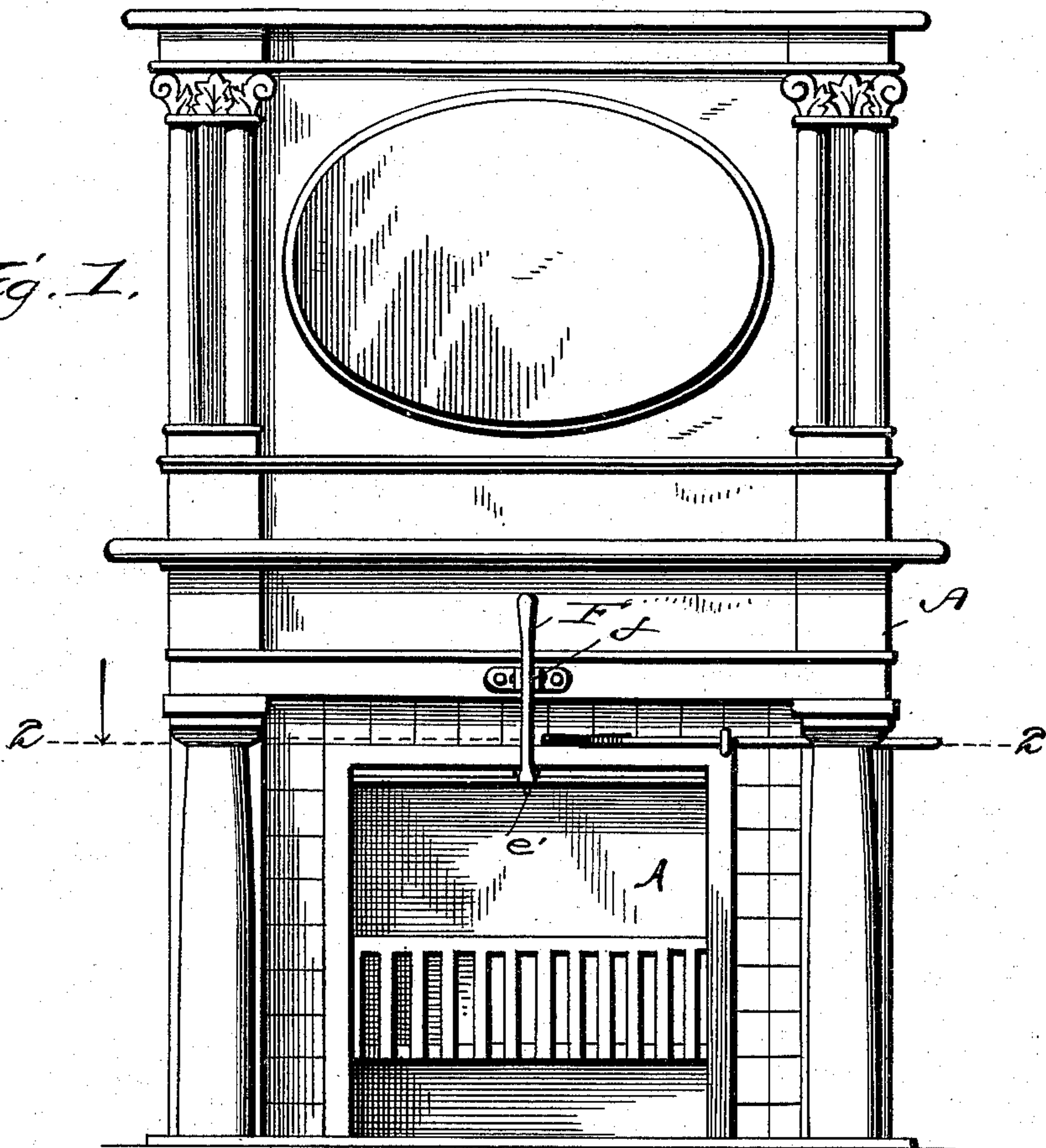
(No Model.)

D. SLATES.  
DAMPER.

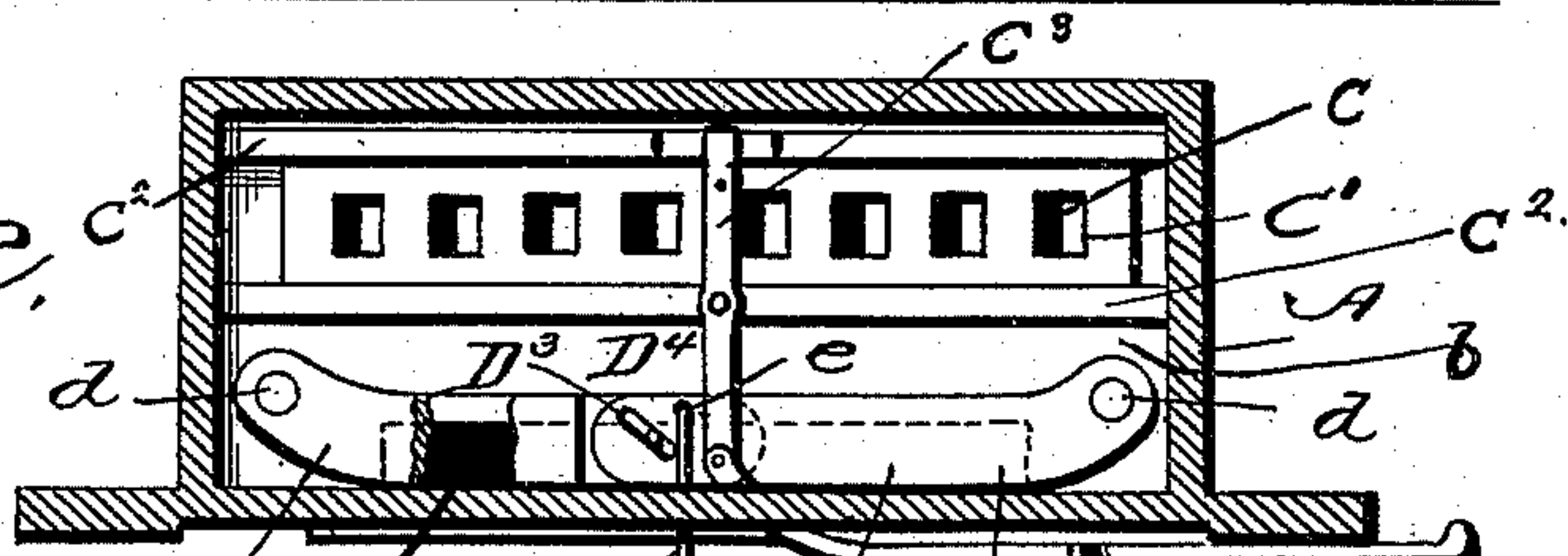
No. 535,466.

Patented Mar. 12, 1895.

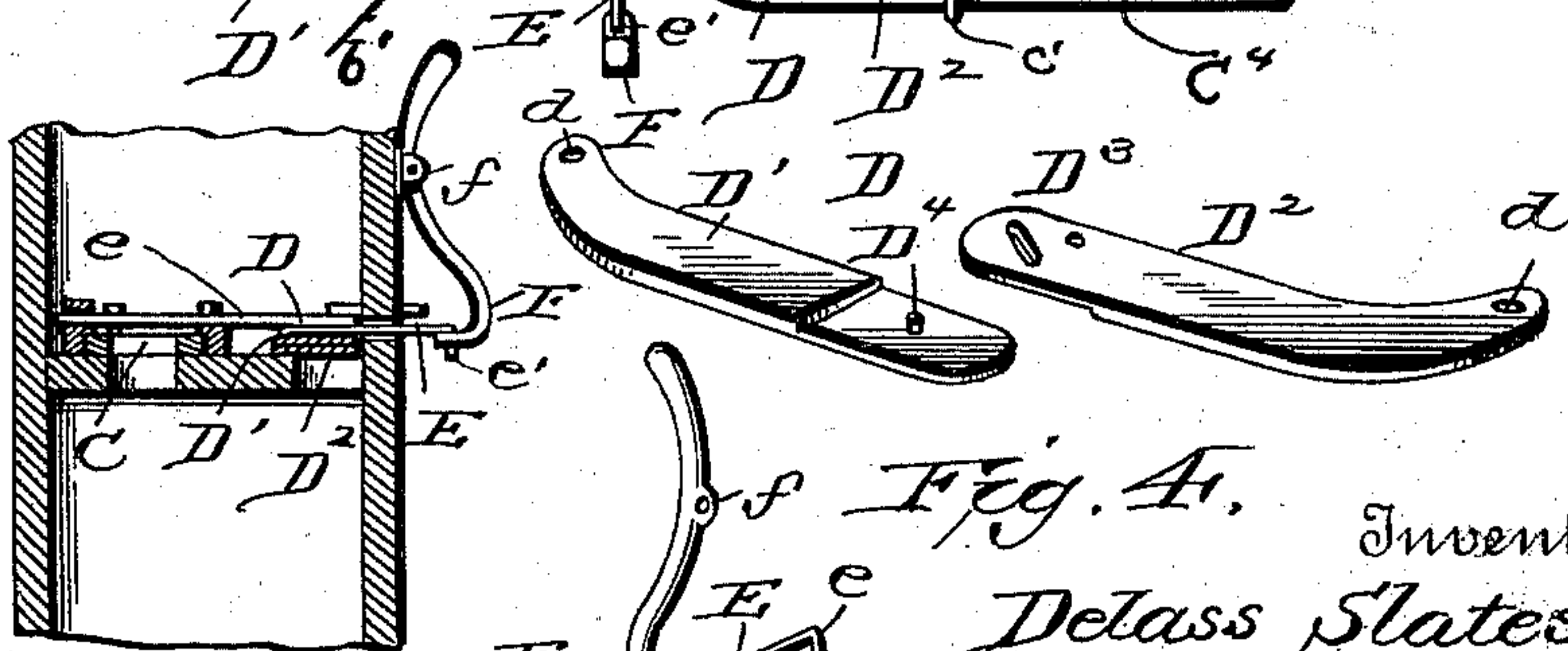
*Fig. 1.*



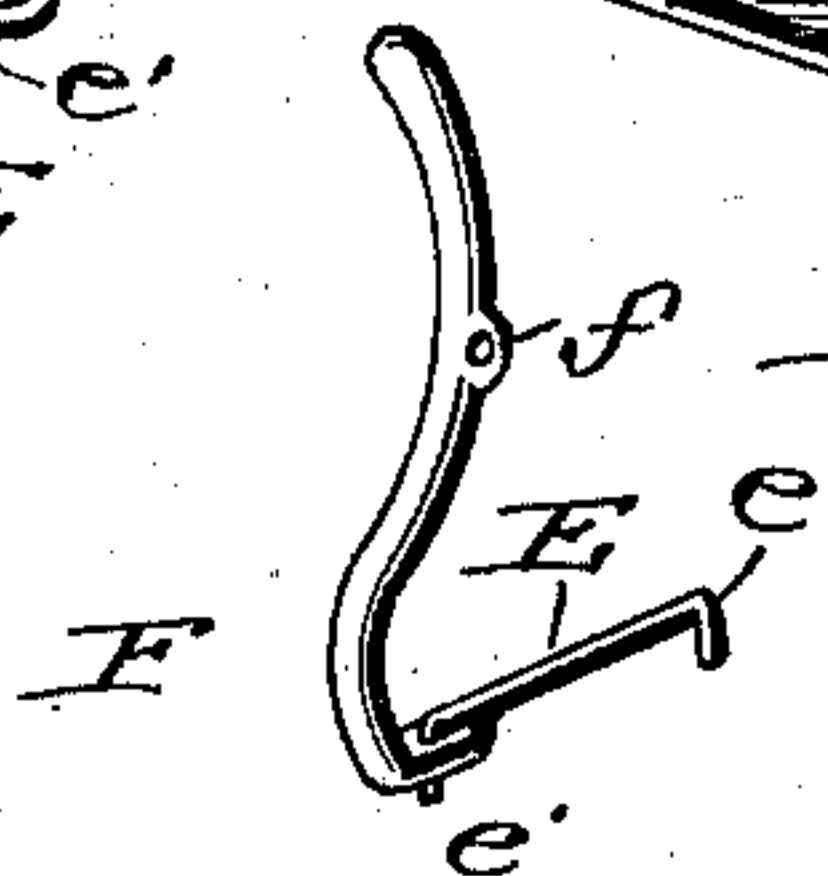
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



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# UNITED STATES PATENT OFFICE.

DEPASS SLATES, OF CADIZ JUNCTION, OHIO.

## DAMPER.

SPECIFICATION forming part of Letters Patent No. 535,466, dated March 12, 1895.

Application filed December 13, 1894. Serial No. 531,678. (No model.)

*To all whom it may concern:*

Be it known that I, DEPASS SLATES, a citizen of the United States, residing at Cadiz Junction, in the county of Harrison, State of Ohio, have invented certain new and useful Improvements in Dampers for Fireplace Grates; 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.

This invention relates generally to open fireplace grates, and particularly to the damper and means for operating the same.

This invention is also an improvement upon my application, Serial No. 524,747, filed October 2, 1894, and relates only to the novel construction of the sectional damper and the means for operating the same.

The object of this invention is to greatly simplify the construction so that the grates can be made cheaper and easier than the old style or pattern.

With this object in view, the invention consists in the details of construction and novelties of combination, all of which will be fully described hereinafter and pointed out in the claim.

In the drawings forming a part of this specification, Figure 1, is a face view of a mantel provided with one of my improved grates. Fig. 2, is a horizontal section on the line 2—2 of Fig. 1. Fig. 3, is a vertical section, and Fig. 4, shows the details of construction.

In carrying out my invention, I employ a fireplace grate A, having a flat top *b*, and formed with an opening *b'* at the front, which opening permits the products of combustion to pass from the grate to the chimney flue. The top plate of the fireplace has a series of openings C, and sliding upon said top plate is a damper C', also provided with a series of perforations, said damper sliding between guides C<sup>2</sup>, C<sup>3</sup>, arranged upon the top plate of the fireplace. A lever C<sup>3</sup>, is pivoted upon one of the guides and works in a slot in the other slide, said lever being connected near

the rear end with the damper C', and at its forward end is connected with a handle C<sup>4</sup>, which works in a staple *c'* fastened to the face of the fire board. By sliding the handle back and forth, the damper C', can be regulated as desired.

This damper is intended for use after the fire has been started, and when the fire is started, I employ a large damper D, which is intended to cover the opening *b'*, and is made in two sections D', and D<sup>2</sup>, pivoted at their outer ends at *d*, and connected at their inner ends by means of a slot D<sup>3</sup>, and pin D<sup>4</sup>, the slot D<sup>3</sup>, being produced in the section D<sup>2</sup>, and the pin D<sup>4</sup>, carried at the end of the section D', said sections being so united that the entire damper can be moved forward to close the opening without straining any of the connections.

A single link E, is employed to operate the damper, said link being hook-shaped at its rear end *e*, to embrace the damper as shown in Fig. 3, and at its forward end, it is bent down as shown at *e'*, to pass down through the lower end of a lever F, pivoted at *f*, upon the rim of the fireplace grate.

The lever is curved down and rearward as shown to more easily receive the end *e'*.

The construction and arrangement just described is much simpler than that formerly used, and is easier and cheaper to make.

Having thus described the invention, what I claim, and desire to secure by Letters Patent, is—

In an open fireplace grate, the combination with a case, of the damper D, composed of sections D', and D<sup>2</sup>, having a pin D<sup>4</sup>, and slot D<sup>3</sup>, respectively, whereby said sections are connected, and a link E, and lever F, for operating the said sections of the damper simultaneously, substantially as shown and described.

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

DEPASS SLATES.

Witnesses:

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