

No. 122,050.

# D. PANGLE. GRATE.

Patented Dec. 19, 1871.

Fig. 1.

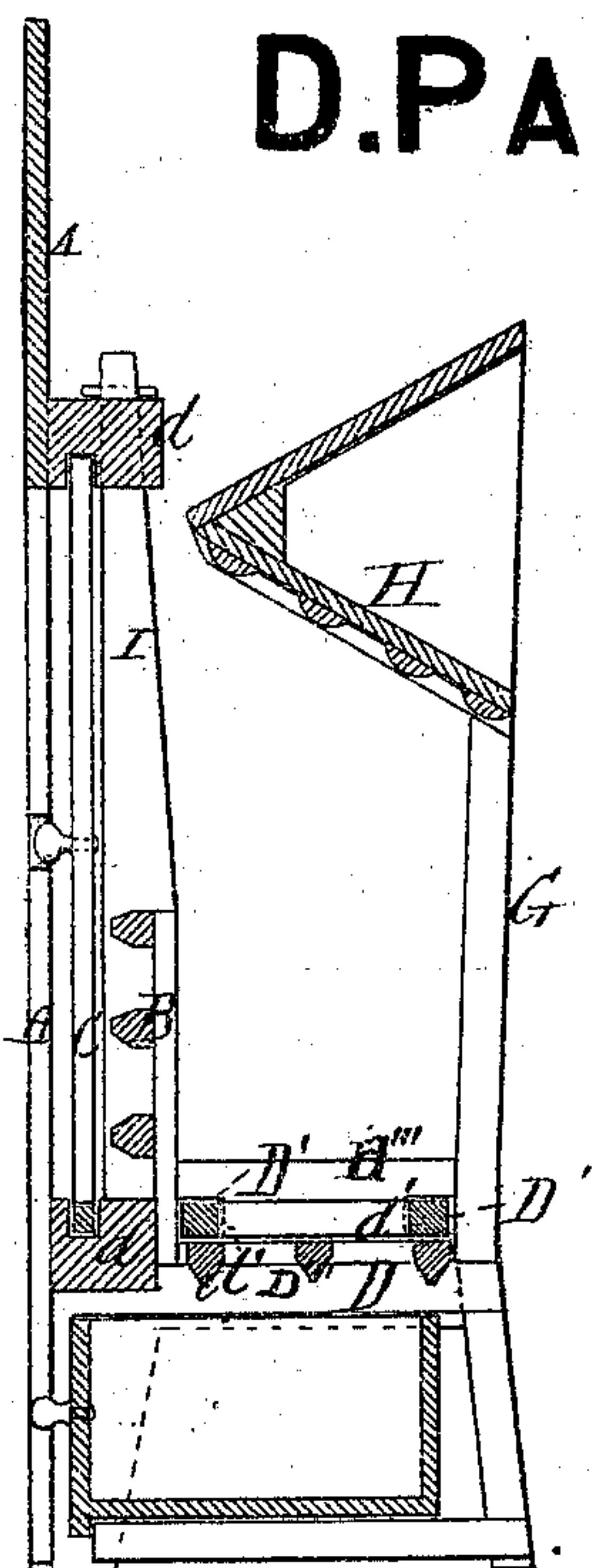


Fig. 2.

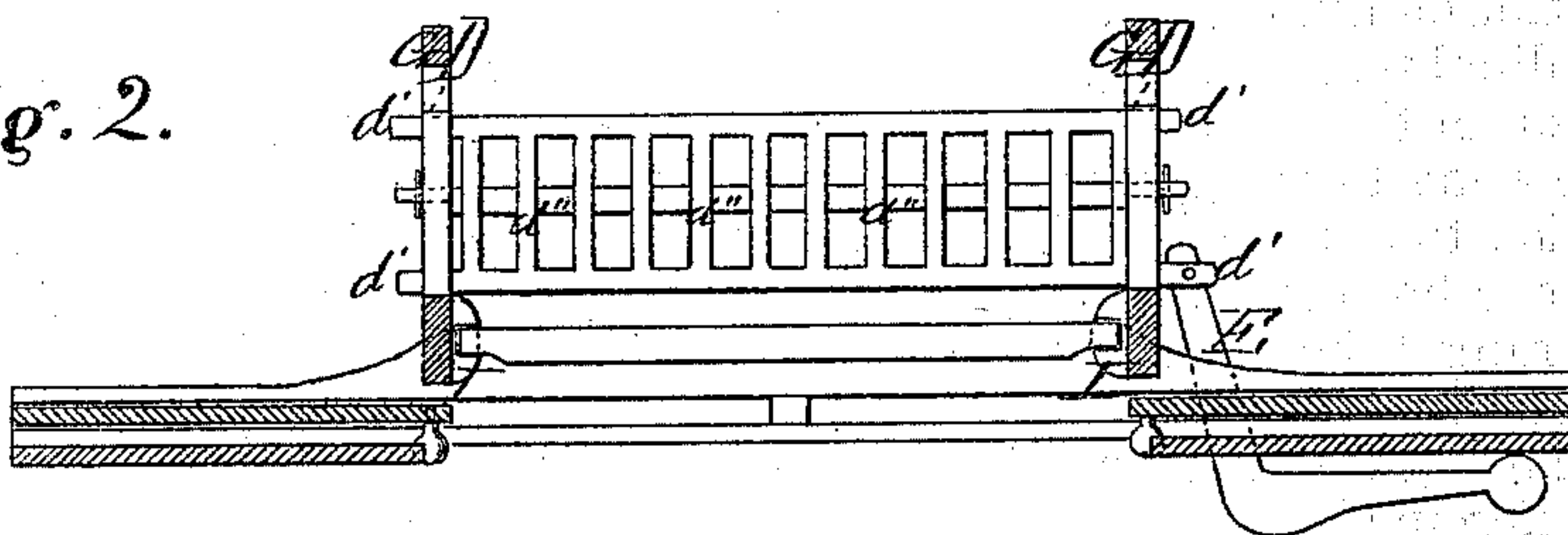
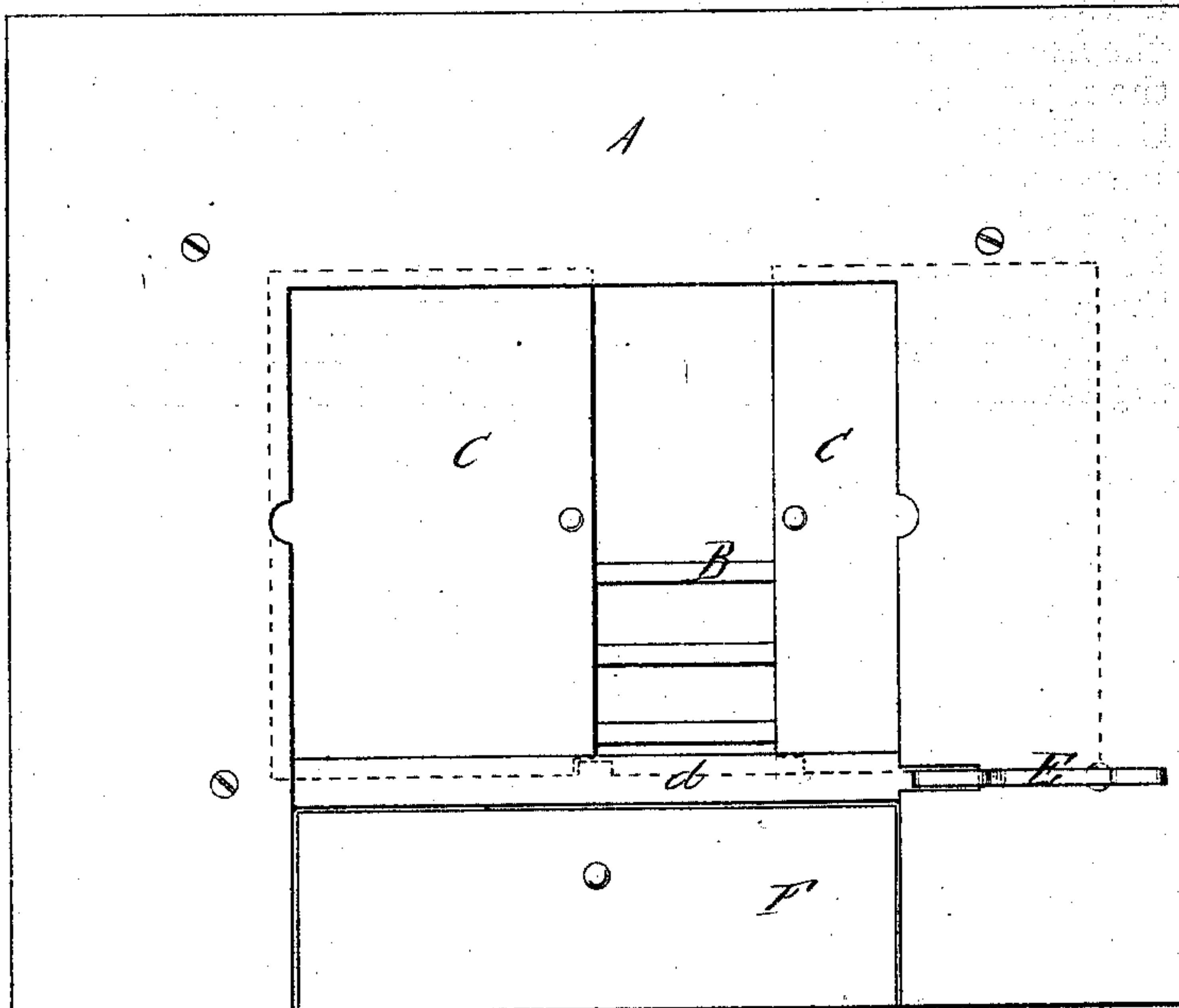


Fig. 3.



Witnesses.

Villette Anderson.

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# UNITED STATES PATENT OFFICE.

DAVID PANGLE, OF BELMONT, OHIO.

## IMPROVEMENT IN FIRE-PLACE GRATES.

Specification forming part of Letters Patent No. 122,050, dated December 19, 1871.

*To all whom it may concern:*

Be it known that I, DAVID PANGLE, of Belmont, in the county of Belmont and State of Ohio, have invented a new and valuable Improvement in Grates; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a vertical transverse section of my invention. Fig. 2 is a horizontal longitudinal section of the same. Fig. 3 is a front elevation of the same.

This invention has relation to fire-grates; and consists in the application to a fire-place of sliding doors; to the grate, of a bottom which may be shaken by a suitably-arranged handle; and also in the peculiar construction of the grate ends arranged in relation to the back of the fire-place and reflecting-plate, as hereinafter described.

In the accompanying drawing illustrating this invention, A represents the front plate surrounding a fire-place, and B the front parallel bars of a grate set therein. C C indicate two doors arranged to slide laterally between horizontal slide-bars *d*. When brought together these doors close up the fire-place in front of the grate, and when separated slide behind the plate A. D D designate the ends of the grate *D'''*, slotted at *D'* to receive the projecting longitudinal bars *d'* of the

grate-base *d'''*, composed of the latter, united by the transverse bars *d''*. E is an elbow-lever, one end of which is pivoted to one of the bars *d'*. The other end is outside the plate A. The lever extends through a slot in the latter. The moving of this lever vibrates the grate-bottom and shakes down the ashes in order to clean the same. F is an ash-drawer, which slides in and out underneath the grate. G G represent vertical standards at the ends of the grate, supporting on their upper ends the triangular radiator H, having its under surface corrugated to increase its extent. I indicates two vertical slide-bars, in which the front of the grate is fitted and may be removed from it, at pleasure, when burnt out, or for other causes.

Having described my invention, I claim—

The fire-place herein described, provided with the corrugated inclined radiator H, the rising front bars B, the fixed supporting-grate *D'''* having longitudinal bars, and the cross-barred slide-grate *d'''*, longitudinally vibrated by the lever E, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

DAVID PANGLE.

Witnesses:

WM. McCAFFREY,  
JENKINSON WRIGHT.

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