

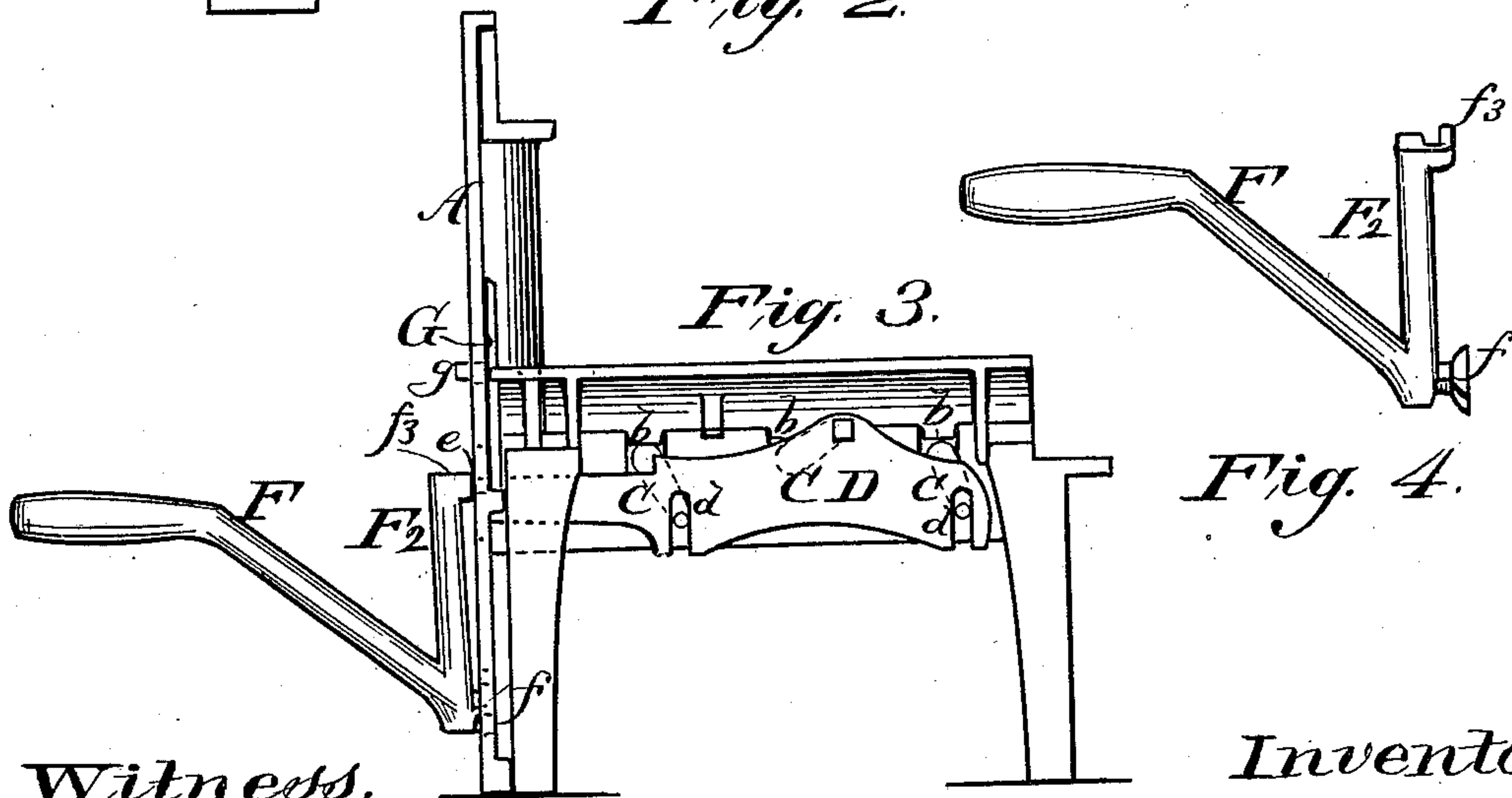
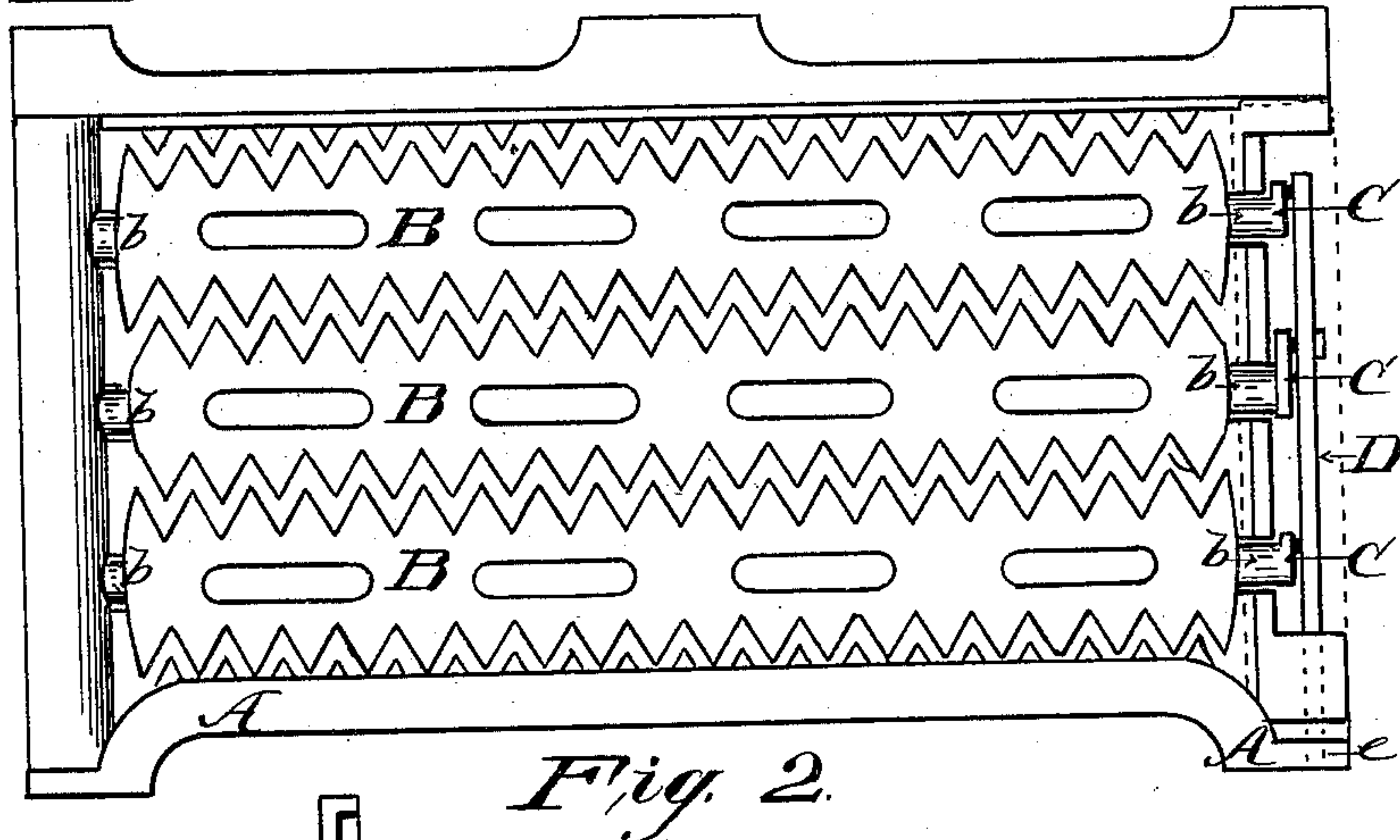
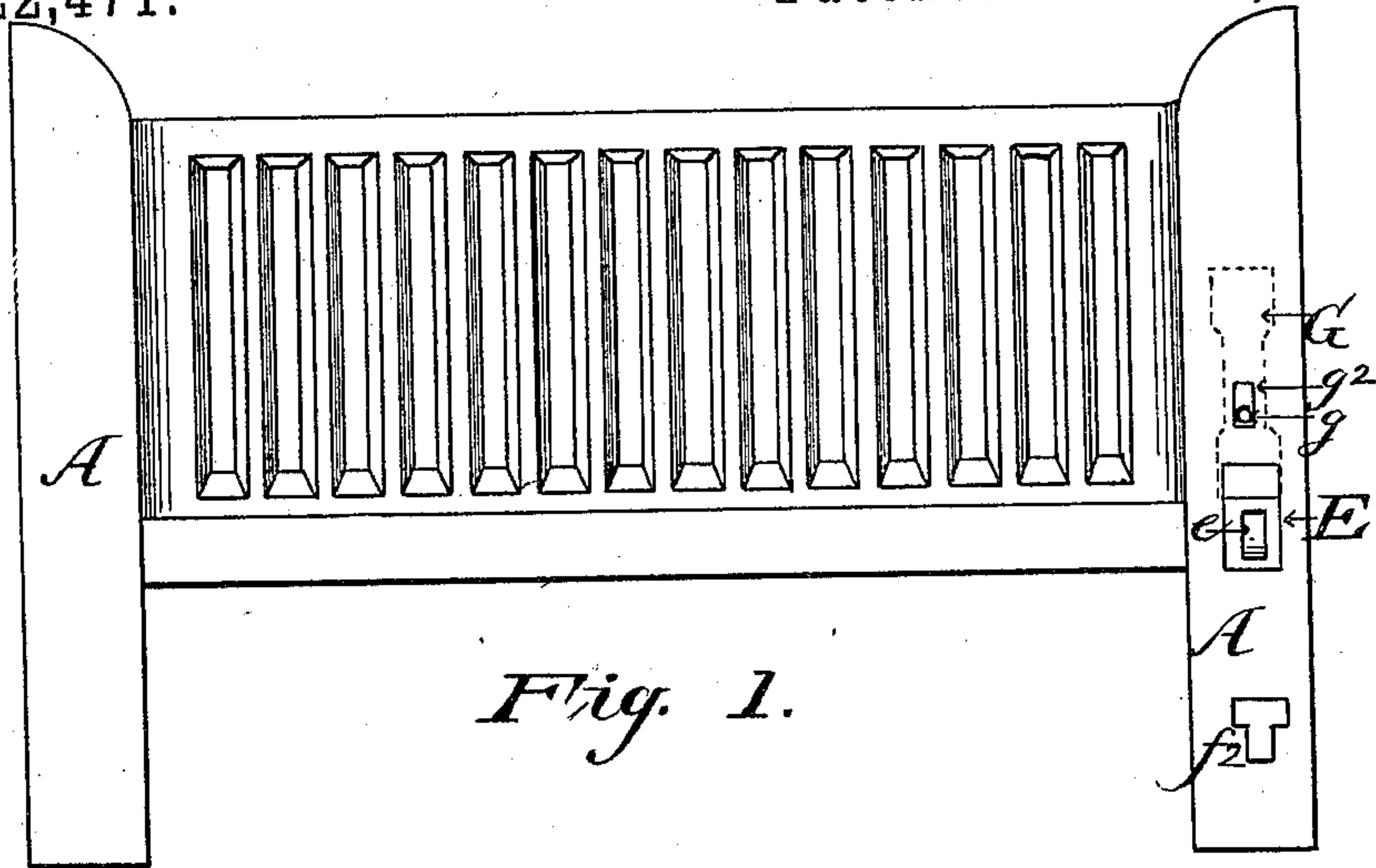
(No Model.)

2 Sheets—Sheet 1.

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PARLOR GRATE.

No. 422,471.

Patented Mar. 4, 1890.



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Inventor,

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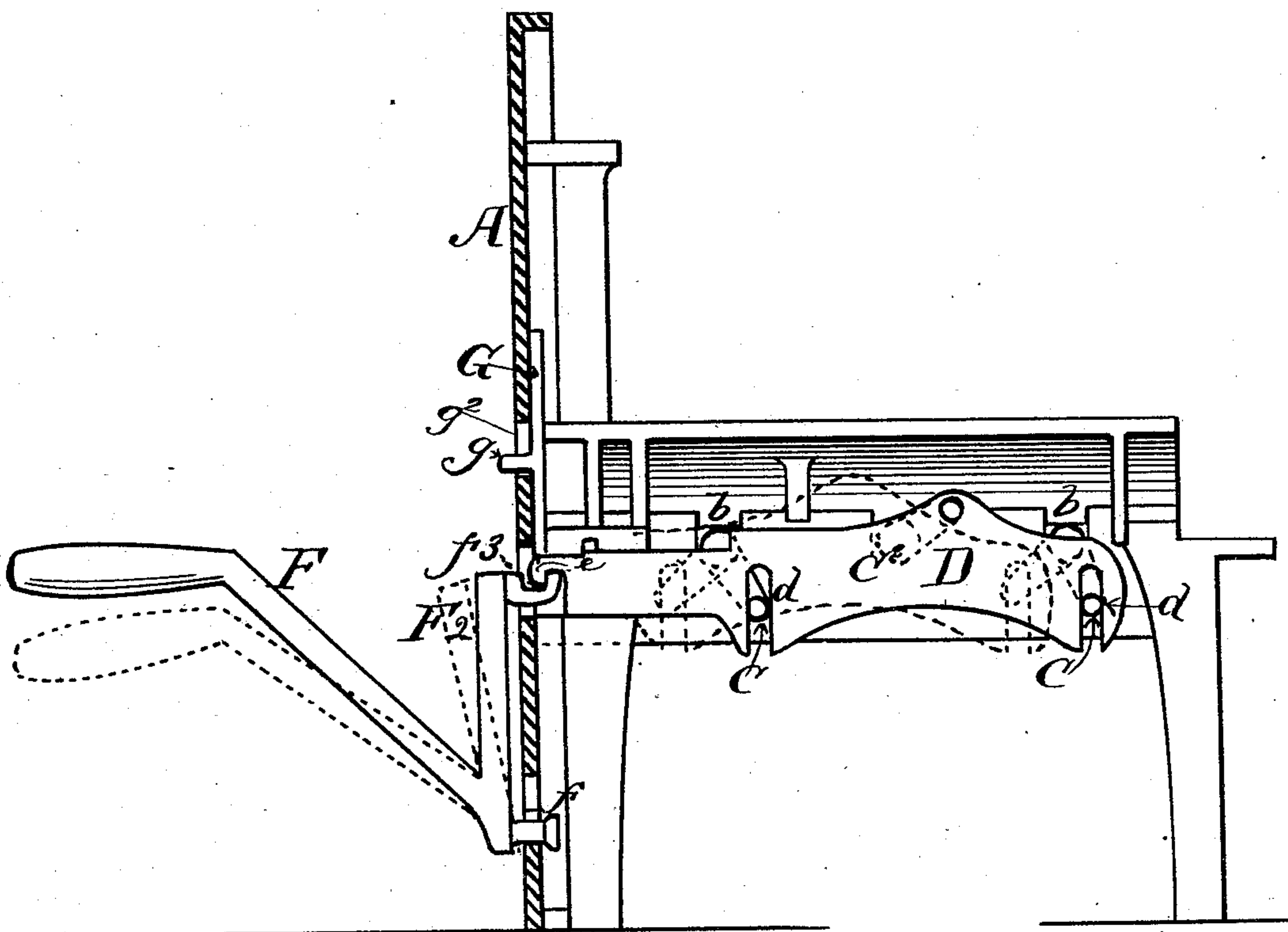
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*Fig 5.*

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# UNITED STATES PATENT OFFICE.

CHESTER J. WADSWORTH, OF CLEVELAND, OHIO.

## PARLOR-GRATE.

SPECIFICATION forming part of Letters Patent No. 422,471, dated March 4, 1890.

Application filed May 6, 1889. Serial No. 309,823. (No model.)

*To all whom it may concern:*

Be it known that I, CHESTER J. WADSWORTH, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Fire-Place Grates, of which the following is a specification.

This invention relates to parlor fire-grates; and it consists in the peculiar construction and combination, with the grate-bars, of a rocking and dumping mechanism, as hereinafter fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a front view of a grate. Fig. 2 is a top or plan view of a grate having my improvement attached. Fig. 3 is an end view of the grate, showing my new rocking and dumping mechanism. Fig. 4 is a detached view of the rocking and dumping handle. Fig. 5 is a vertical section through the right front jamb, showing the handle attached and manner of rocking the grate-bars.

A represents the front frame covering the jambs of a fire-place.

B B B are grate-bars having serrated edges, and are journaled in the end cross-bars of a supporting-frame. On the right-hand end of said grate-bars are provided crank-arms C C C<sup>2</sup>, those on the two outside bars turned downward at an angle of about thirty-six degrees from the level plane and that on the middle bar at an angle of thirty-six degrees upward from the level plane.

D is a bar connected with the cranks of said grate-bars B by means of a hole near its middle upper part to the middle crank, and by slots *d d* in its under side to the two outside cranks. This bar D is used for shaking and turning the grate-bars, as hereinafter shown. The forward end of said bar D extends to an opening E in the frame A, and has a hook *e* on the end.

F is a handle for shaking the grate. On

the lower corner is provided a T-shaped projection *f*, which is designed to be inserted in a T-shaped slot *f*<sup>2</sup> in the front frame A. This forms a fulcrum upon which the handle is vibrated.

F<sup>2</sup> is an upwardly-extending arm on said handle, and has a hook *f*<sup>3</sup>, which engages with the hook *e* on the bar D. The vibrating movements of the handle are thus imparted to the bar D for agitating the grate-bars.

G is a latch-plate set on the inside of the frame A, designed as a stop to limit the movements of the bar for shaking the grate by the striking of a shoulder on the top edge of the bar. Said plate G has a pin *g* projecting through a slot *g*<sup>2</sup> in the plate A. The purpose of this is to provide for raising the plate G, when desired, to turn the grate-bars B for dumping and allow the bar D to be brought farther forward for that purpose.

Having described my invention, I claim as follows:

1. The combination of the grate-bars B B B, trunnioned in the end bars of the frame, the outside grate-bars having the downward-reaching crank-arms C C and the middle bar having upward-reaching crank-arm C<sup>2</sup>, the bar D, pivotally attached to crank C<sup>2</sup> and connected to cranks C C by the slots *d d*, and a means for reciprocally operating said bar D for imparting a rocking motion to the grate-bars, substantially as and for the purpose specified.

2. In combination, the bar D, connected to the crank-arms C C C<sup>2</sup>, in the manner described, the lever F, provided with the arm F<sup>2</sup> and the T-head projection *f*, hook *f*<sup>3</sup>, the slide G, and the jamb-front A, constructed and arranged to operate substantially as described.

CHESTER J. WADSWORTH.

Witnesses:

GEO. W. TIBBITTS,  
JOHN W. TAYLOR.