

(Model.)

C. O. WESTLAND.

GRATE FOR STOVES.

No. 249,129.

Patented Nov. 1, 1881.

Fig. 1.

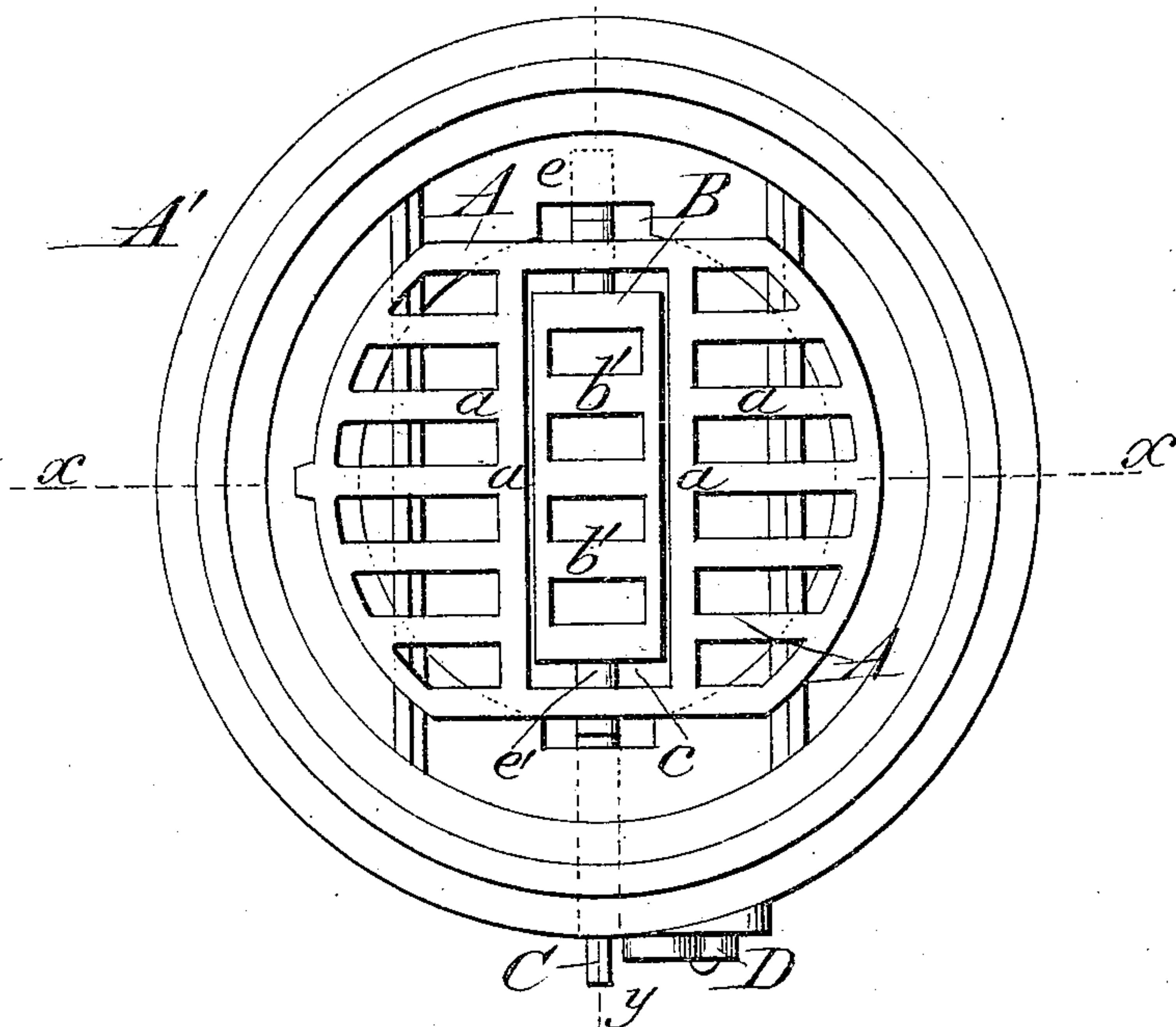


Fig. 2.

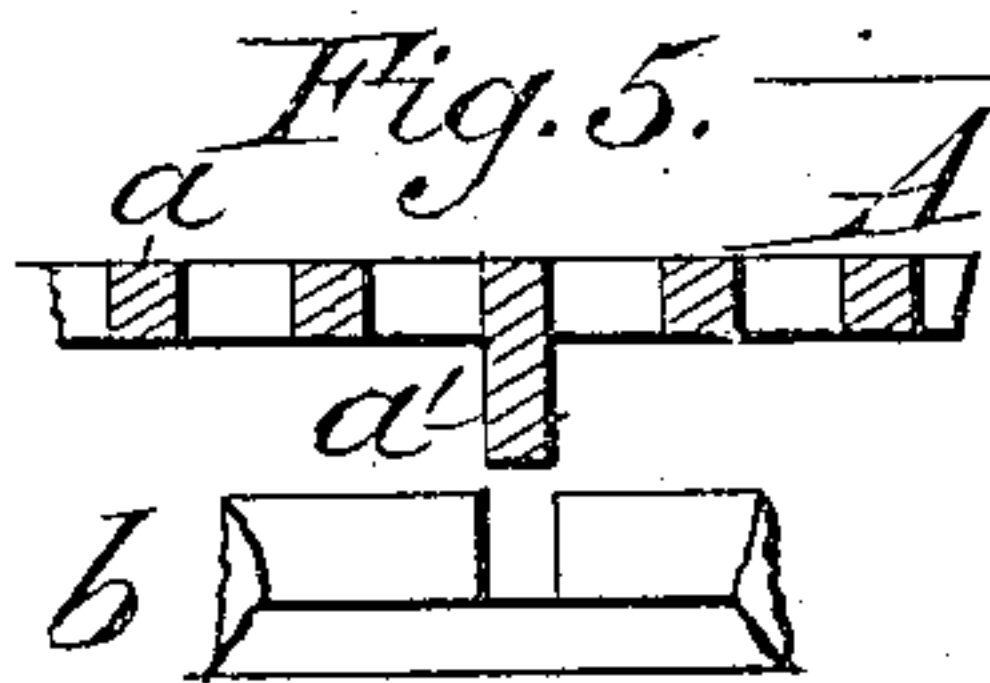
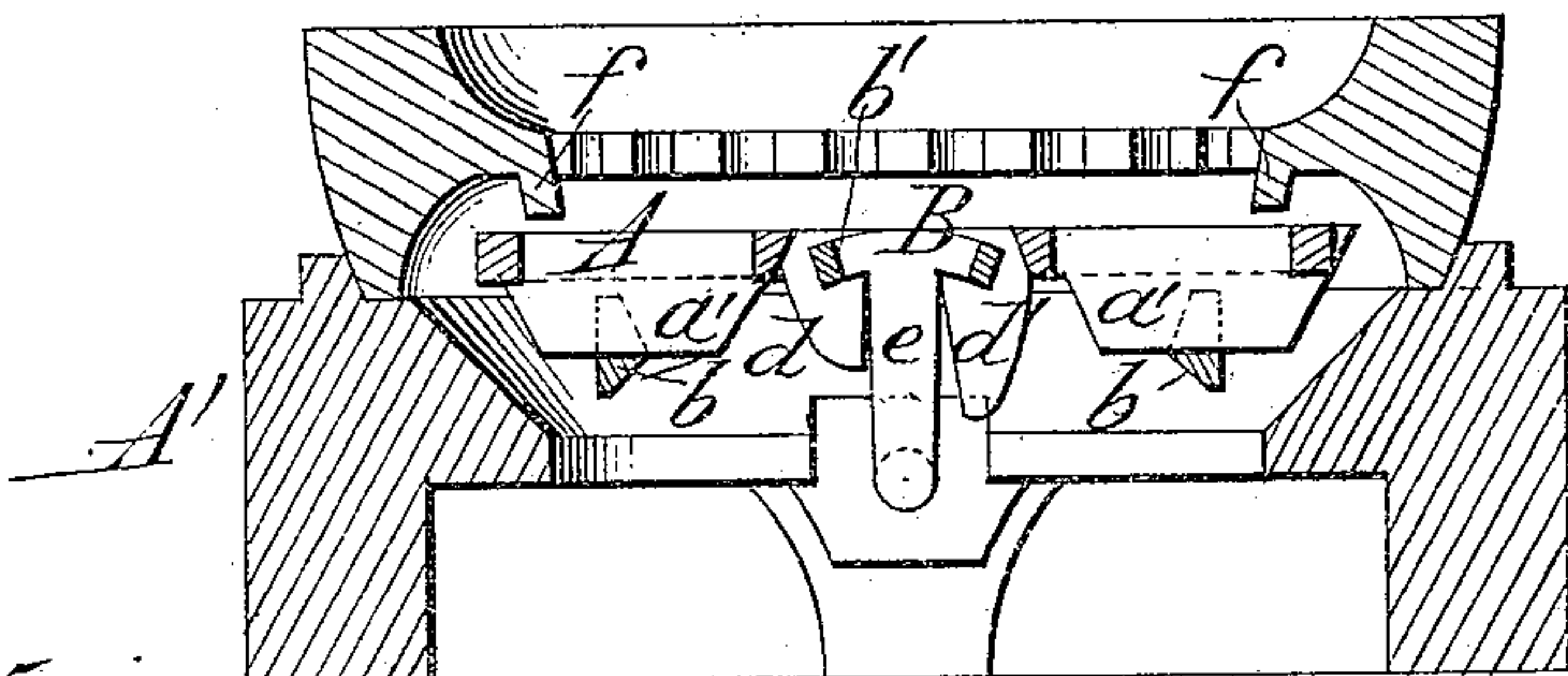


Fig. 3.

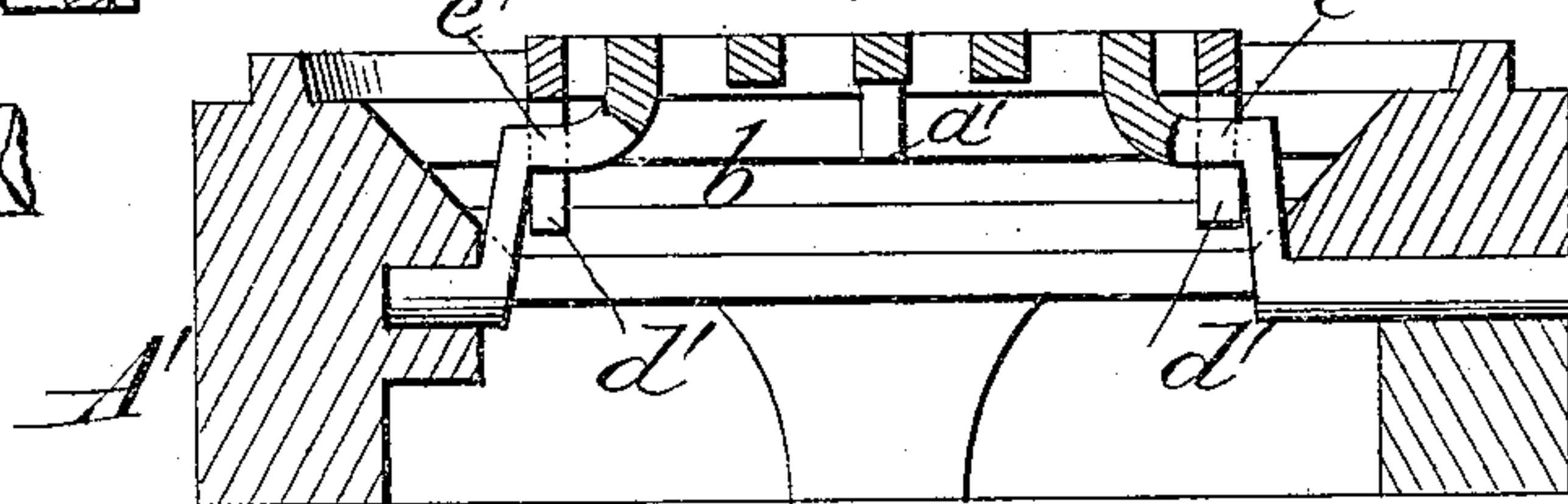


Fig. 6.

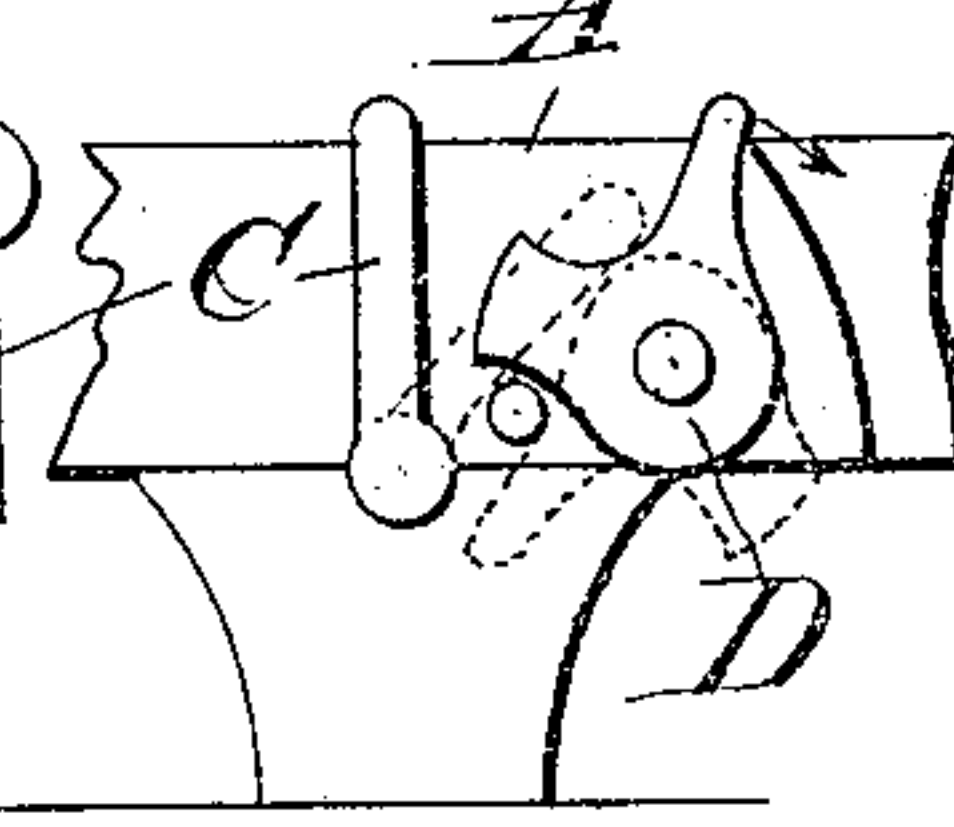
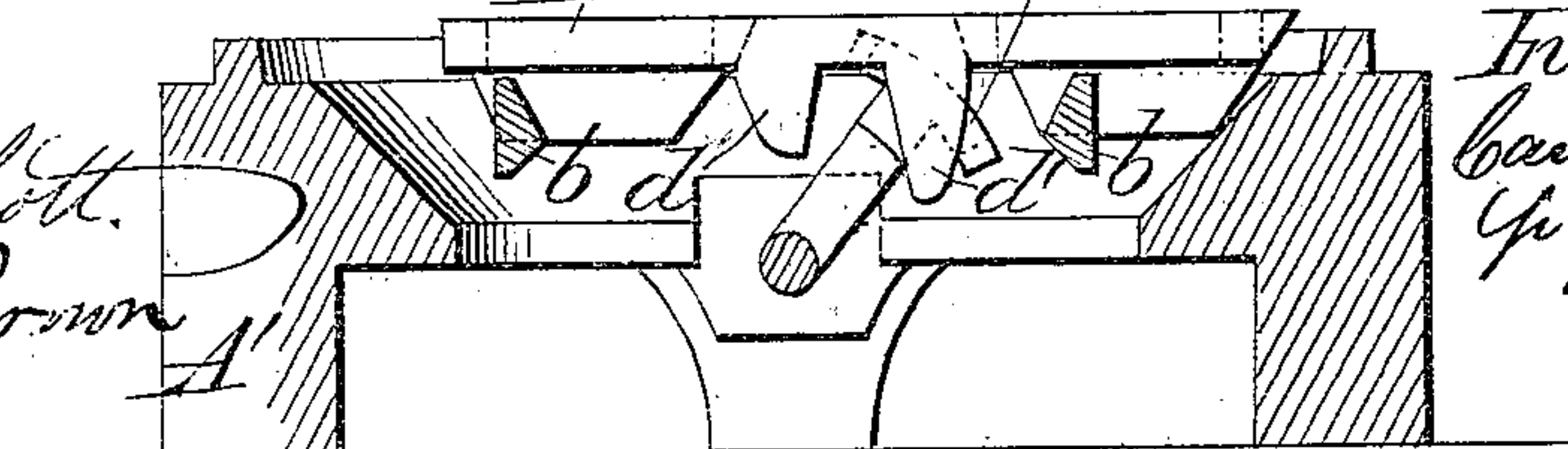


Fig. 4.



Attest:

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# UNITED STATES PATENT OFFICE.

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## GRATE FOR STOVES.

SPECIFICATION forming part of Letters Patent No. 249,129, dated November 1, 1881.

Application filed February 23, 1881. (Model.)

*To all whom it may concern:*

Be it known that I, CARL O. WESTLAND, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful invention in Grates for Stoves, of which the following is a specification.

This invention relates to that class of grates for stoves and furnaces which are provided with a central opening that is governed by a dumping grate-section, whereby the ashes and cinders are removed without detaching or tripping the main grate; and my invention consists in the combination, with a main sliding grate having a central opening controlled by a dumping grate-section journaled immediately beneath said opening, of a crank attachment and an adjustable stop, as hereinafter more fully set forth.

In the annexed drawings, which fully illustrate the invention, Figure 1 is a top-plan view of my improved grate in position. Fig. 2 is a sectional elevation on the line *x x*. Fig. 3 is a similar section on the line *y y*. Fig. 4 is also a section on the line *x x*, showing the adjustable grate-section tilted to one side; and Figs. 5 and 6 are detail views.

Similar parts are indicated by like letters in the several views.

A is a grate formed of bars *a a*, and having a rim to correspond with the shape of the stove or furnace *A'*, in which it is placed. On its under surface are central lugs or projections, *a'*, that fit in notches formed in the cross bars or rods *b b*, on which the grate is supported. In the center of the grate *A* is an opening, *c*, extending across the said grate between its outer bars, which are provided on their under surfaces, at each end of the opening, with downward-projecting lugs *d d'*, the latter being beveled on its inner face.

A dumping grate-section, *B*, is journaled in suitable bearings in the base of the stove, beneath the central opening, *c*. This section is composed of bars *b' b'*, and is provided at each end with journals *e e*, having shoulders *e' e'*, which are arranged between the lugs *d d'* on the under surface of the main grate.

Attached to one of the crank-journals *e* is a handle, *C*, that projects on the outer side of the stove, and by means of which the grate is operated. An adjustable stop, *D*, is pivoted on the outer side of the stove, near the handle *C*, in a position corresponding with the beveled lug *d'*. This stop limits the movement of the handle *C*, and when adjusted in proper position holds the grate-section *B* in a vertical position and prevents it from tilting.

The operation of the grate will be apparent. When the stop *D* is turned away from the handle *C* the latter may be moved from side to side, so as to slide the grates *A B* back and forth, for the purpose of shaking out loose ashes and cinders, and when turned down sufficiently toward the stop *D* the central grate-section, *B*, will be dumped. The beveled inner faces of the lugs *d'* on the main sliding grate *A* allow the central grate-section to be turned readily in that direction, while the vertical inner faces of the lugs *d* on the opposite side of the main grate prevent the grate-section *B* from falling that way. The upward movement of the main grate is limited by lugs *f f*, arranged on the inner side of the stove, above the said grate.

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

1. The combination, with the main sliding grate *A*, having a central opening, *c*, and adjustable grate-section *B*, adapted to control said opening, of a crank-handle, *C*, and adjustable stop *D*, substantially as set forth.

2. The combination, in a furnace or stove, of the main sliding grate *A*, having a central opening, *c*, and lugs *a' d d'*, dumping-grate *B*, having crank-bearings *e e*, handle *C*, and adjustable stop *D*, whereby the grate is dumped by a sliding horizontal movement, substantially as shown and described.

CARL OLOF WESTLAND.

Witnesses:

FRANK JOHNSON,  
J. TAYLOR HAIR.