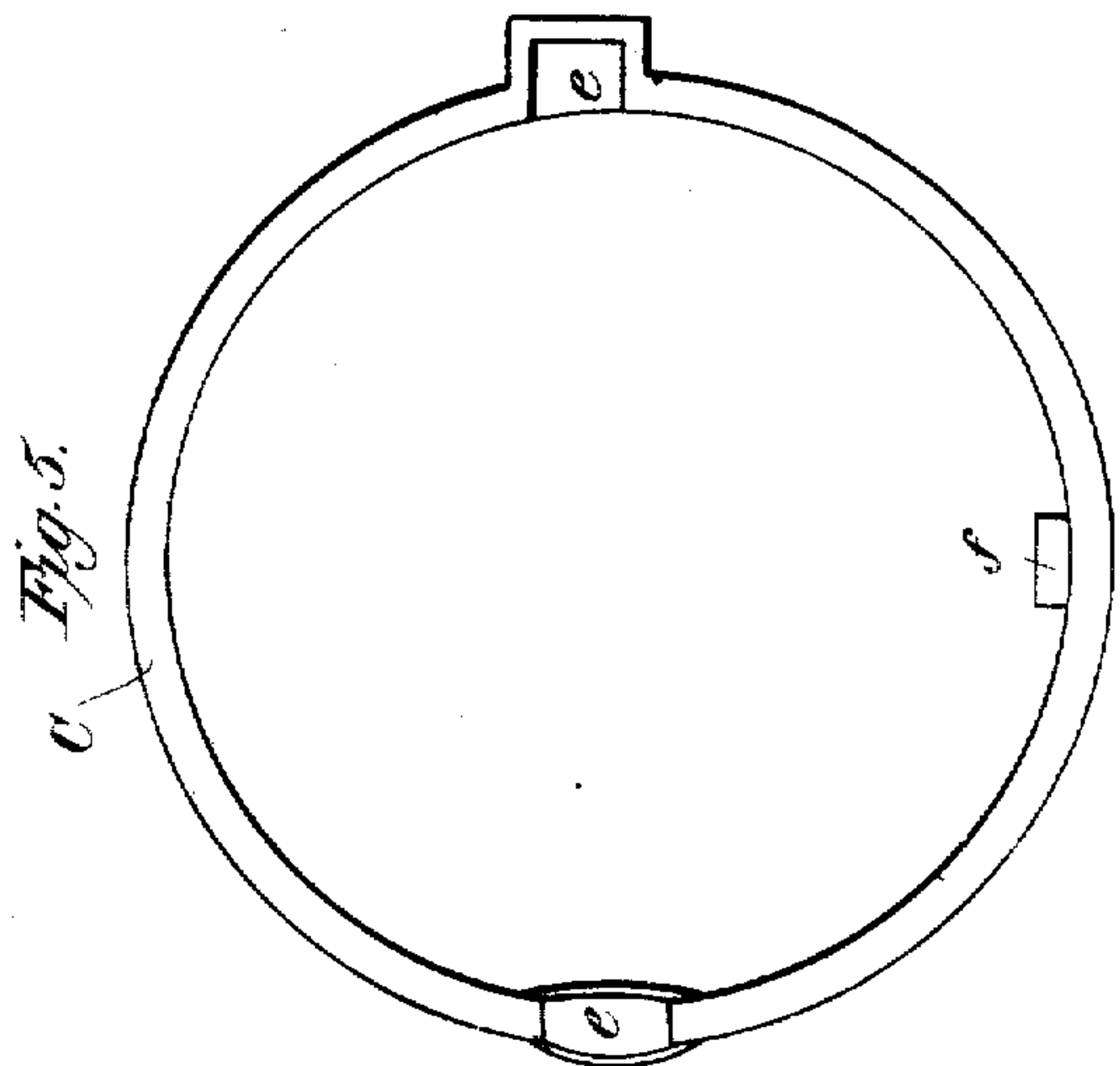
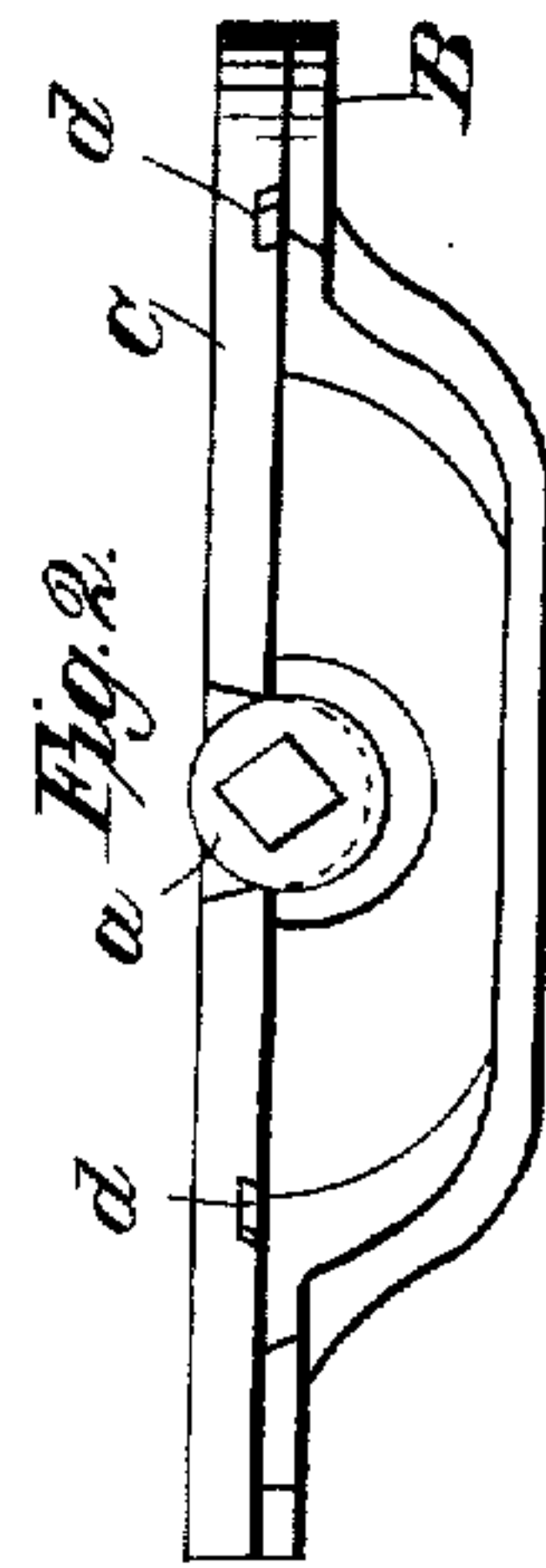
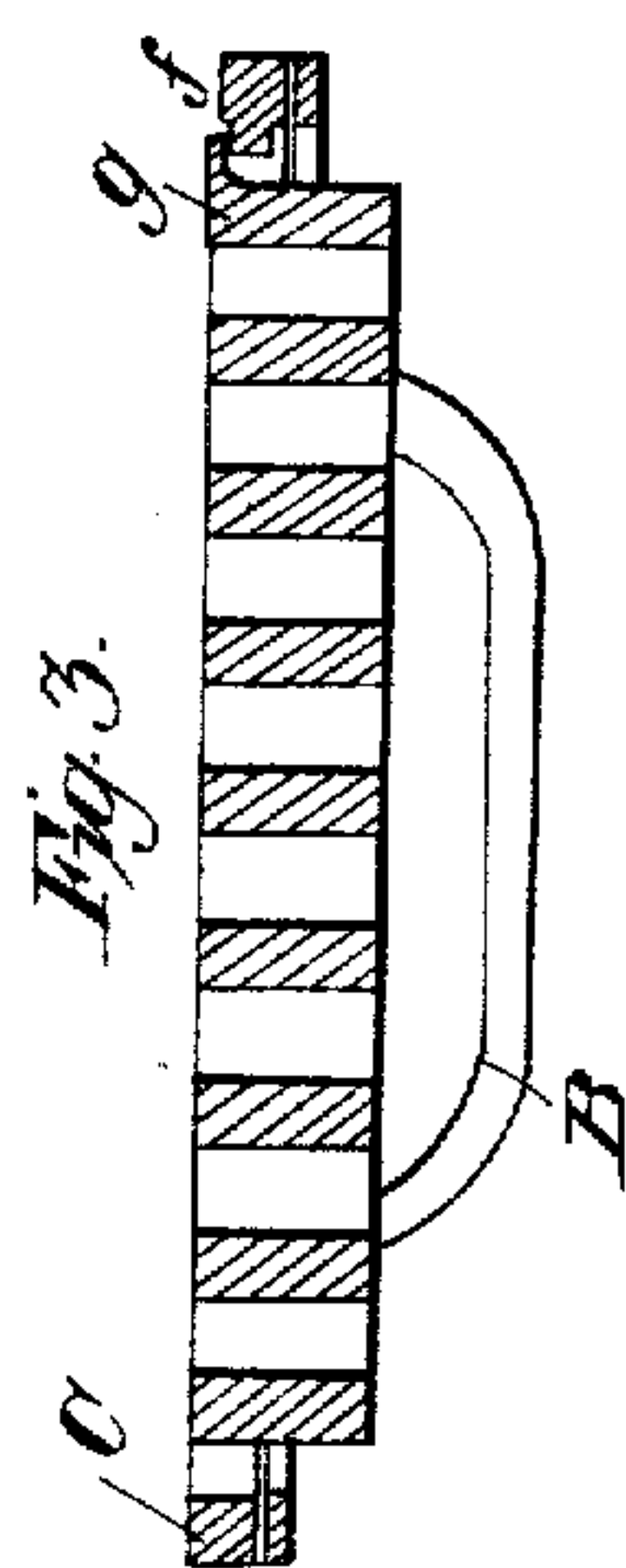
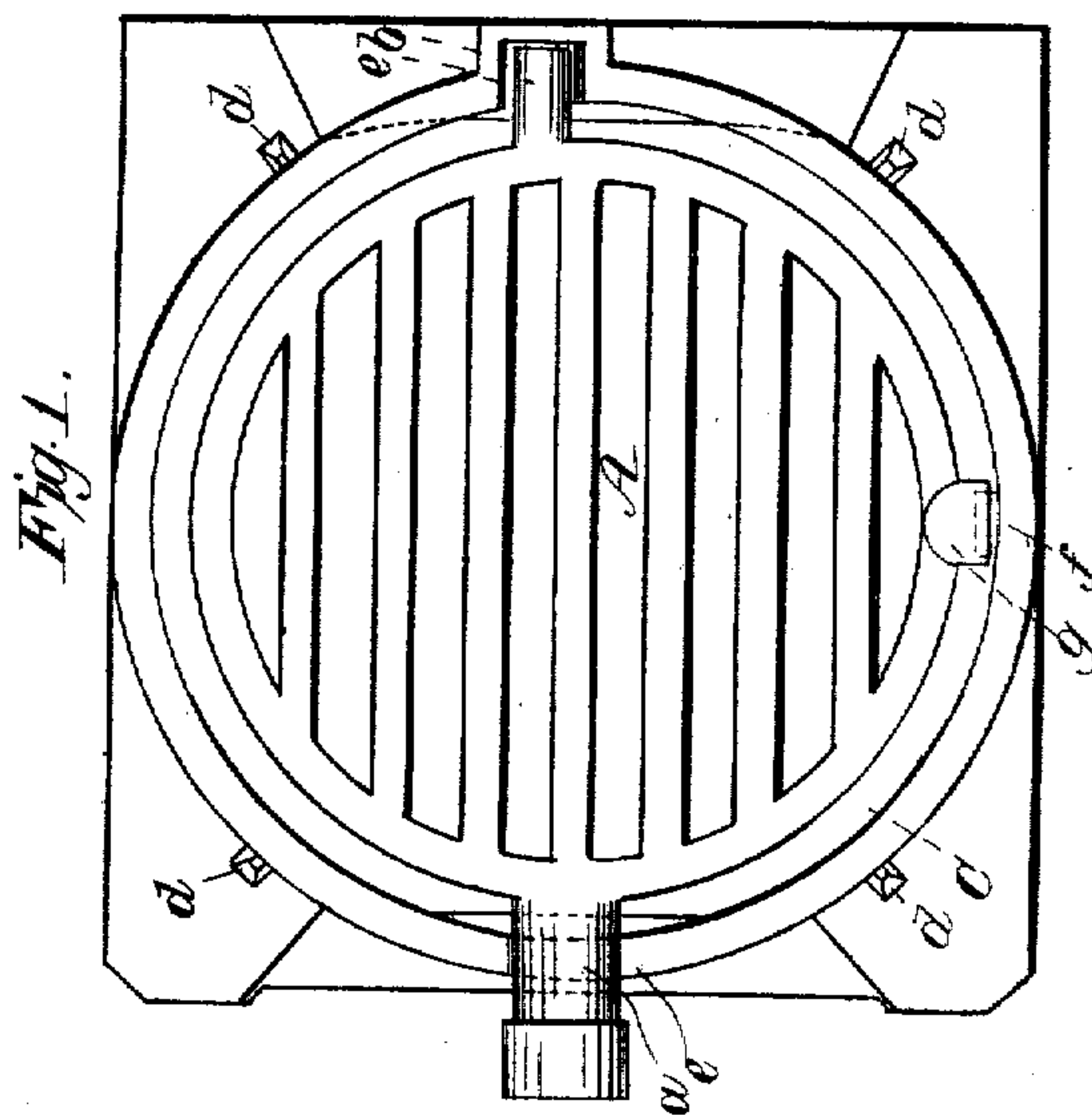
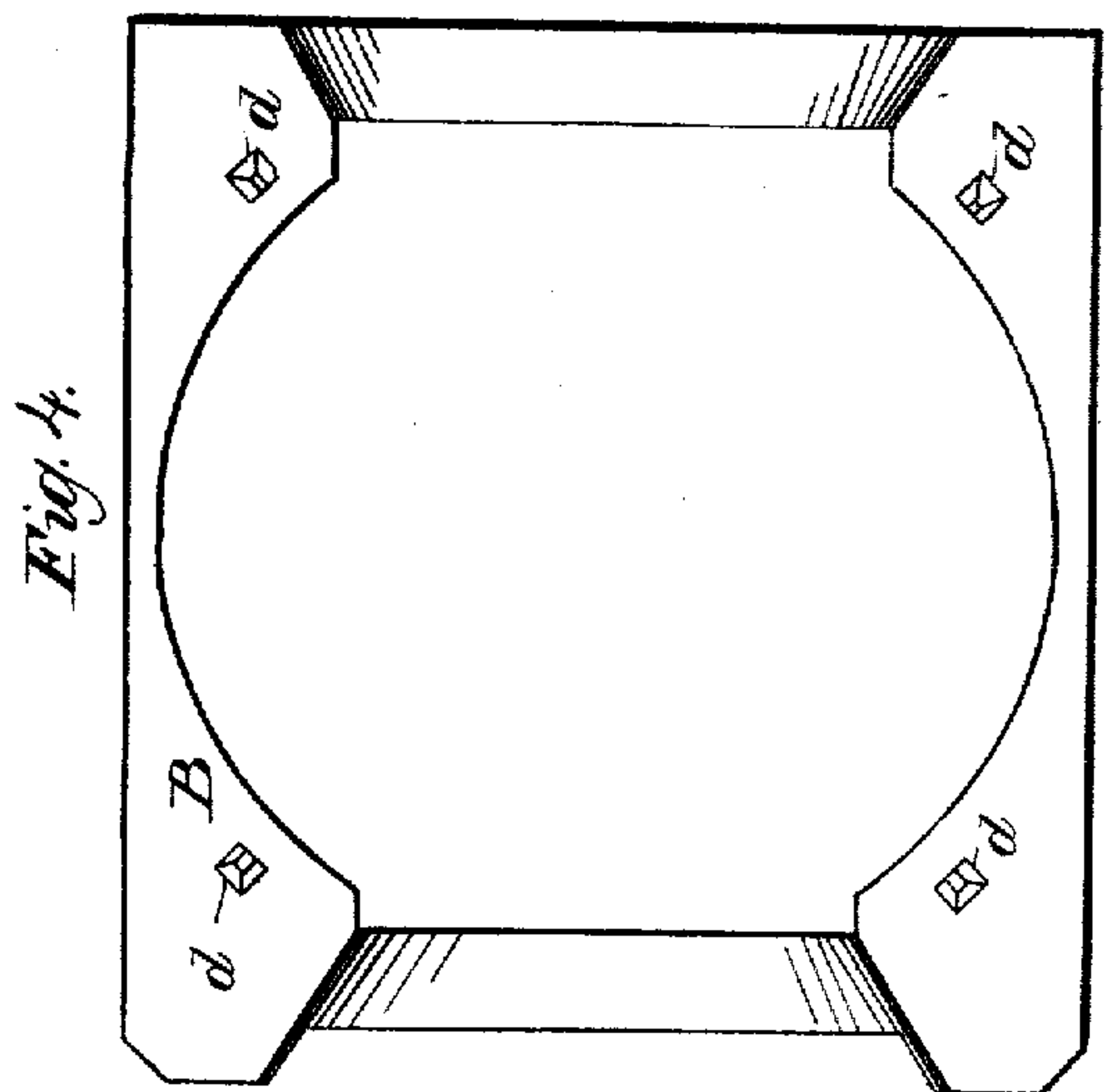


W. T. COGGESHALL.

Grate.

No. 18,434.

Patented Oct. 20, 1857.



UNITED STATES PATENT OFFICE.

W. T. COGGESHALL, OF FALL RIVER, MASSACHUSETTS.

STOVE AND FURNACE GRATE.

Specification of Letters Patent No. 18,434, dated October 20, 1857.

To all whom it may concern:

Be it known that I, WILLIAM T. COGGESHALL, of Fall River, in the county of Bristol and State of Massachusetts, have invented
5 an Improved Mode of Supporting a Grate for Either a Stove or Hot Air Furnace; and I do hereby declare that the same is fully described and represented in the following specification and the accompanying drawings, of which—

Figure 1, exhibits a top view of a grate and its drawer slide as furnished with my improvement. Fig. 2, a front elevation of the same. Fig. 3, a transverse section of
15 such. Fig. 4, a top view of the drawer slide. Fig. 5, a top view of the supporting annulus.

In these drawings, A, denotes a circular grate provided with journals, *a, b*; B is the
20 drawer slide which when applied to a stove, slides into and out of the ash pit in a manner similar to that in which a common drawer slides into its case, the said drawer slide being supported by and made to run
25 on ledges projecting from the sides of the ash pit and arranged so as to bring the grate into a proper situation with respect to the firepot. On the top surface of this drawer slide is placed flatwise, a rotary ring, C, its
30 position being preserved by four studs, *d, d, d, d*, extended upward from the drawer slide and against the periphery of the annulus. The said ring C, is constructed with
35 bearings or recesses, *e, e*, for the reception of the journals of the grate. It also has a stop or projection, *f*, on which another projection, *g*, from the grate rests, when the said grate is in a horizontal position. By means of the said annulus or ring constructed and

applied to the grate and the drawer slide in
40 manner as described, the grate can be tipped laterally, or it may be vibrated horizontally as occasion may require, whether it be to discharge either cinders or ashes from the
45 fire pot.

My invention admits of a clear space underneath the grate, that is no bar or shaft extends across the opening of the drawer
slide under the grate for the purpose of supporting the grate and permitting it to rotate
50 laterally, such bar or shaft carrying a journal to pass through a hole in the middle of the grate.

I lay no claim whatever to applying the
grate to its drawer slide in such manner as
55 to enable said grate to be either turned horizontally or tipped laterally, such not being my invention, but

What I do claim is—

An improvement thereon, the same consisting in the above described new mode
60 of combining the grate A with its drawer slide B, viz, by a supporting annulus, C, separate from and arranged on the slide
65 and made to support the grate substantially as explained, my invention affording a clear ash space under the grate, while it secures the advantage of allowing the grate to be
70 either tipped laterally, or to be turned or vibrated horizontally as occasion may require.

In testimony whereof I have hereunto set my signature this third day of May, A. D. 1857.

W. T. COGGESHALL.

Witnesses:

JOHN W. NICHOLS,
B. WILLIAMS.