

S. G. MORRISON.
Coal-Stove Grates.

No. 141,452.

Patented August 5, 1873.

Fig. 1.

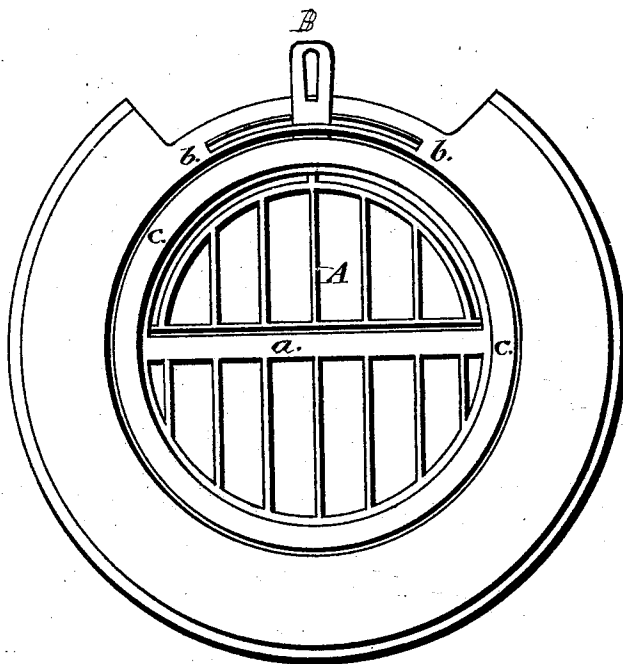
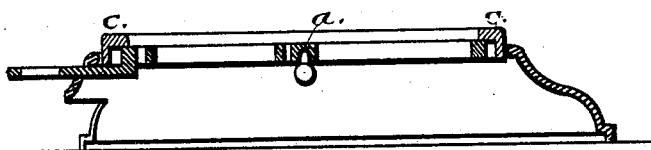


Fig. 2.



Attest;
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SAMUEL G. MORRISON, OF WILLIAMSPORT, PENNSYLVANIA.

IMPROVEMENT IN COAL-STOVE GRATES.

Specification forming part of Letters Patent No. **141,452**, dated August 5, 1873; application filed June 7, 1873.

To all whom it may concern:

Be it known that I, SAMUEL G. MORRISON, of Williamsport, Lycoming county, Pennsylvania, have invented a Coal-Stove Grate, of which the following is a specification:

The object of my invention is to prevent cinder, or other hard substances in the furnace of a coal-stove, from clogging, wedging, and hindering the free motion of the stove-grate in the act of shaking down the ashes, by the use of an annular flanged ring or collar of metal fitting loosely between the rim of the grate and the walls of the stove-cylinder, suspended by its flange upon the rim or periphery of the grate, as shown in the perspective view, Figure 1, of the accompanying drawing.

The annular collar *c* is shown suspended upon the grate *A*, in Fig. 2, in which it is not deemed necessary to outline the cylinder of the stove.

The stove may be of any desired pattern, having an annular grate suspended on a center, as shown at *a*, in Fig. 2, upon which annular grate is suspended, by its flange, the collar *c*, and so arranged that the bar *B* will freely vibrate from *b* to *b* in the act of shaking down the ashes in the stove.

Should the collar be tightened or held by cinder from revolving, the grate can, nevertheless, vibrate within the flanged collar.

I claim—

The movable flanged collar or ring *c*, in combination with the horizontally-rotating grate *A*, substantially as and for the purpose described.

SAMUEL G. MORRISON.

Witnesses:

C. P. WEBSTER,
RUSSEL B. HARRISON.