

(No Model.)

H. C. SNOW.
STOVE GRATE.

No. 349,237.

Patented Sept. 14, 1886.

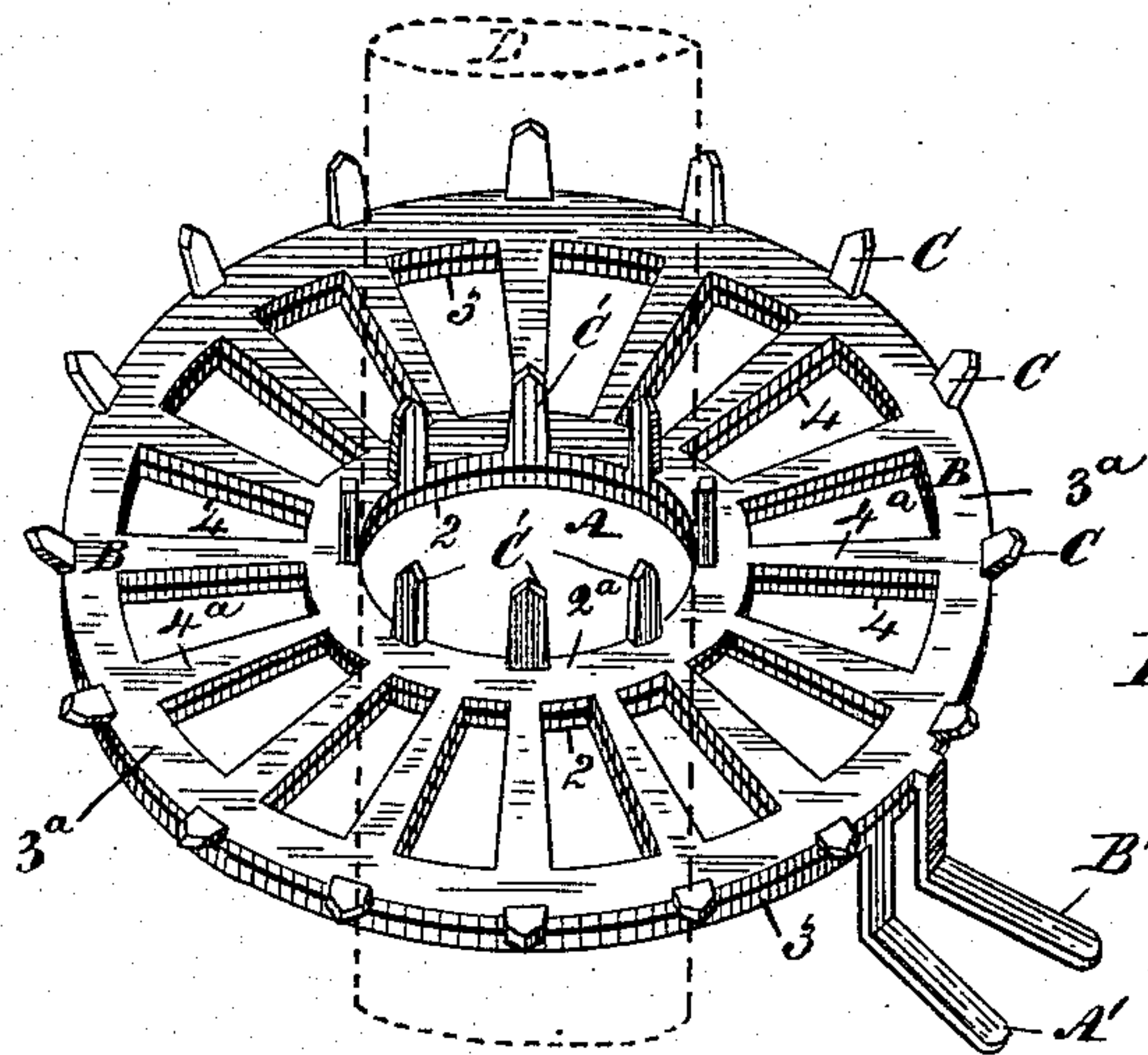


Fig. 1.

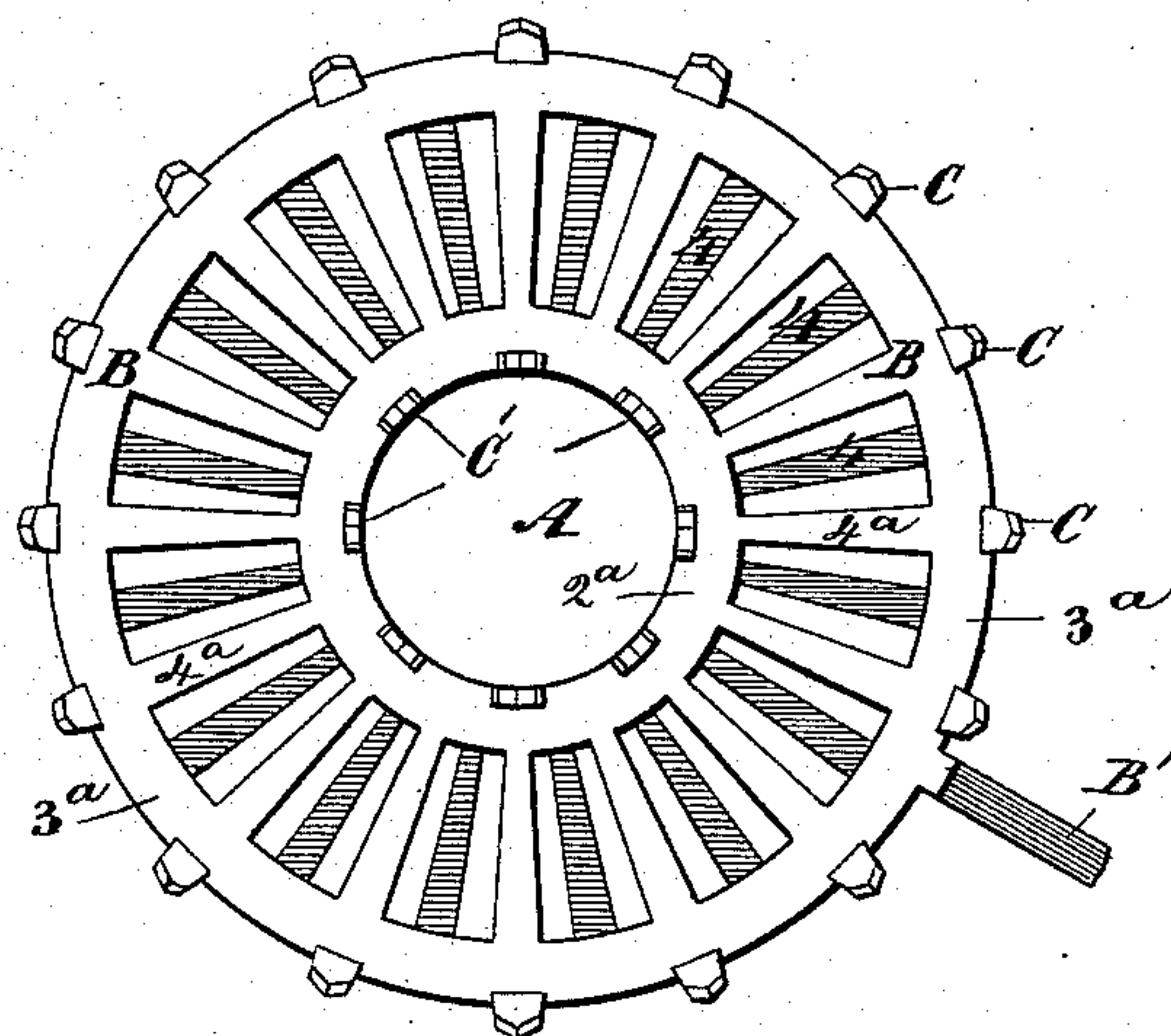


Fig. 2.

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UNITED STATES PATENT OFFICE.

HORACE C. SNOW, OF WINNIPEG, MANITOBA, CANADA.

STOVE-GRATE.

SPECIFICATION forming part of Letters Patent No. 349,237, dated September 14, 1886.

Application filed October 27, 1885. Serial No. 181,096. (No model.) Patented in Canada June 5, 1885, No. 21,809.

To all whom it may concern:

Be it known that I, HORACE CARLETON SNOW, of Winnipeg, in the county of Selkirk, in the Province of Manitoba, in the Dominion of Canada, have invented certain new and useful Improvements in Stove-Grates; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention consists in the combination of two annular grates having coinciding radially-disposed bars, and handles to coincide when the bars intervene, the upper grate provided with prongs on the inner and outer peripheries and each grate having an independent annular movement, or both a combined movement, whereby the grates can be relatively adjusted to close the bottom, to either exclude draft and retain small coal, or opened to permit free draft and allow large clinkers to pass through, the prongs on the upper section being to clean away clinkers which may impede the movement of the grate.

My grate is particularly designed for use with the form of ventilating stove shown in my application, No. 172,779, filed July 27, 1885.

Figure 1 is a perspective view of my improved grate, the parts in relative position, whereby the radial bars coincide; and Fig. 2 is a plan view of the same, showing the handles coinciding, whereby the grate-bars are in intermediate position.

The lower section of the grate is formed of inner and outer annular rims, 2 3, connected by radial bars 4, and provided with a handle, A'.

A is the circular opening through the center of the grate, through which passes the ventilating-tube D of a stove, said tube being shown in Fig. 1 in dotted lines. The lower section of the grate rests on bearings within the stove, and has a reciprocating circular motion about the tube when shaken by the handle.

B is the upper section of the grate, bearing flatwise on the lower section, and having annular rims 2^a 3^a and radially-disposed bars 4^a, corresponding to the lower section of the grate, and a handle, B', which overrides the lower handle, so that when the two handles coincide

the radial bars of each section will relatively intervene, as shown in Fig. 2. Both grates can then be simultaneously shaken by the movement of both handles combinedly, the closeness of the grate-bars then partially cutting off the draft and retaining small coal; but when the handles are slightly parted, as shown in Fig. 1, the openness of the grate-bars will permit clinkers to pass, and afford a free draft through the fire. The outer edge of the grate section B and the inner edge of the same are provided with standing prongs C C', to break away from the fire-pot any accumulation of clinkers, &c., which may impede the shaking of the grate.

I am aware that grates have been constructed having prongs to break away clinkers adhering to the wall of the fire-pot. I am aware that a grate is shown in Patent No. 168,772, wherein the grate has a central valve to dump ashes through the grate, and a ring supporting the grate has prongs to keep the fire clean of ashes near the outer periphery of the grate; but such is not my invention. I am further aware that a grate is shown in Patent No. 119,535, in which a bottom or grate to the fire-chamber is formed of two sections, one above the other, and adjustable to make an open or close bottom. I am further aware that a grate having upwardly-projecting points over its area is shown in Patent No. 258,328; but the function of such points is not to clear away clinkers.

I claim as my invention.

The combination of the upper grate-section having inner and outer annular rims provided with prongs connected by radial bars and provided with a handle, and a lower grate-section having rims and bars coinciding with the rims and bars of the upper section and provided with a handle relatively placed, whereby the handles will coincide when the grate-bars relatively intervene, as set forth, for the purpose described.

HORACE C. SNOW.

Witnesses:

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