

J. A. PRICE.
Stove Grate.

No. 201,630.

Patented March 26, 1878.

Fig. 1.

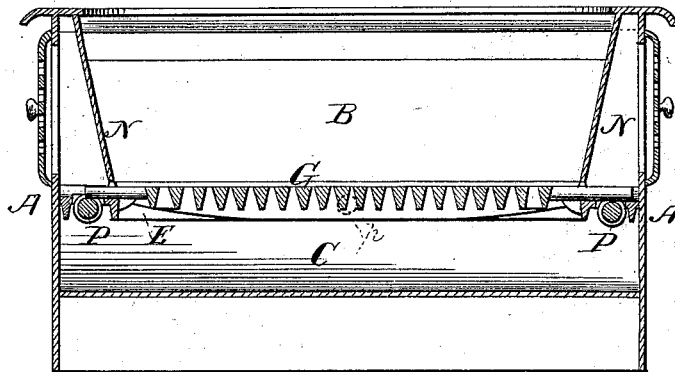


Fig. 2.

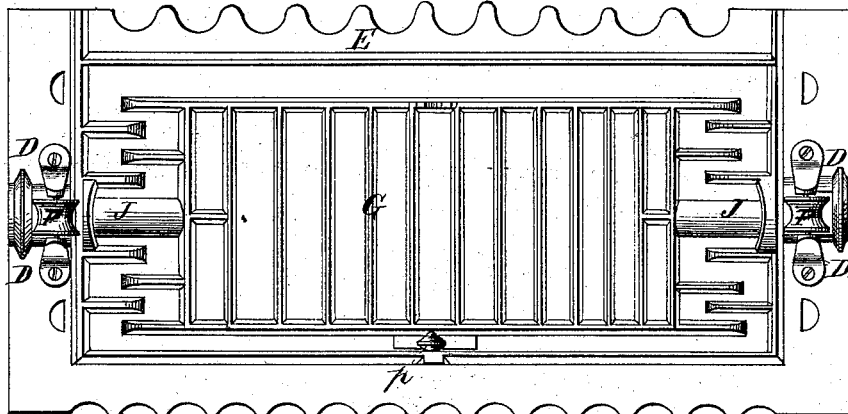
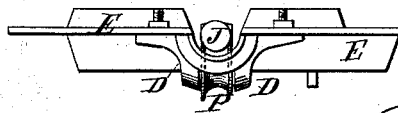


Fig. 3.



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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN STOVE-GRATES.

Specification forming part of Letters Patent No. **201,630**, dated March 26, 1878; application filed August 17, 1877.

To all whom it may concern:

Be it known that I, JOHN A. PRICE, of Scranton, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in Stove-Grates; and I do hereby declare the following to be a full and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a longitudinal section through the fire-box of a cooking-stove, showing the application of my improvements; and Figs. 2 and 3 are, respectively, a bottom-plan view and an end elevation of the grate and its connections.

Similar letters of reference in the drawings denote the same parts.

This invention has for its object to improve the construction of stove-grates, and especially grates for cooking-stoves, in respect to rendering them more efficient, durable, and less expensive than those heretofore produced; and it consists in an improved construction and manner of supporting and operating the grate, which I will now proceed to describe, and point out in the claims.

In the accompanying drawings, A represents a section of a stove-casing; B, the fire-box; C, the ash-box, and G the grate. The grate G is provided at its ends with trunnions or journals J, which rest on sheave-pulleys P, journaled in brackets D, located at the ends of the grate-frame E.

These brackets may be bolted to the grate-frame, as shown in Figs. 2 and 3, or cast as a part thereof, if preferred.

The pulleys are each provided with journals, and can be easily slipped in and out of their bearings when desirable. The rear side of the grate rests upon a plain pulley, *p*, mounted on a short pin or screw-stud secured to the grate-frame, said pulley, besides affording an additional bearing for the grate in its movements, serving also to maintain its horizontal position and prevent it from turning accidentally.

Being supported entirely upon rolling sur-

faces, the grate is easily reciprocated or rattled.

It will be seen by reference to Fig. 1 that the grate-frame extends beyond and behind the end walls N N of the fire-box of the stove, and that consequently the pulleys located therein are completely sheltered from the fire, and cannot become burned or warped by heat, nor clogged by cinders, but remain perfectly operative until worn out. In this respect I regard my invention as superior to any other known to me.

The grate may be reciprocated by power applied at either end or to the middle; and to dump it, it is tipped forward on its journals sufficiently far to allow the contents of fire-box to pass to the ash-pit below.

I do not wish to confine myself to the peculiar form of grate proper represented in the drawings, as a double grate having suitable journals may be employed, made in separate sections, and connected and operated at one end by a lever-arm, or connected by two lever-arms, and operated from the front, regarding such construction as covered by my invention, which consists in the arrangement of the supporting devices, rather than in the special form of grate itself.

I claim as my invention—

1. A reciprocating stove-grate having journals supported on pulleys located outside the fire-pot, whereby the grate is enabled to be reciprocated and turned for dumping on the said pulley-bearings, substantially as described.

2. The sheave-pulleys P P, mounted in the grate-frame E, behind the end walls of the fire-box, in combination with grate G, having journals J, substantially as described.

3. The pulley *p*, supporting the rear side of the grate, in combination with the grate, grate-frame, and sheave-pulleys P P, substantially as described, for the purpose specified.

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Witnesses:

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