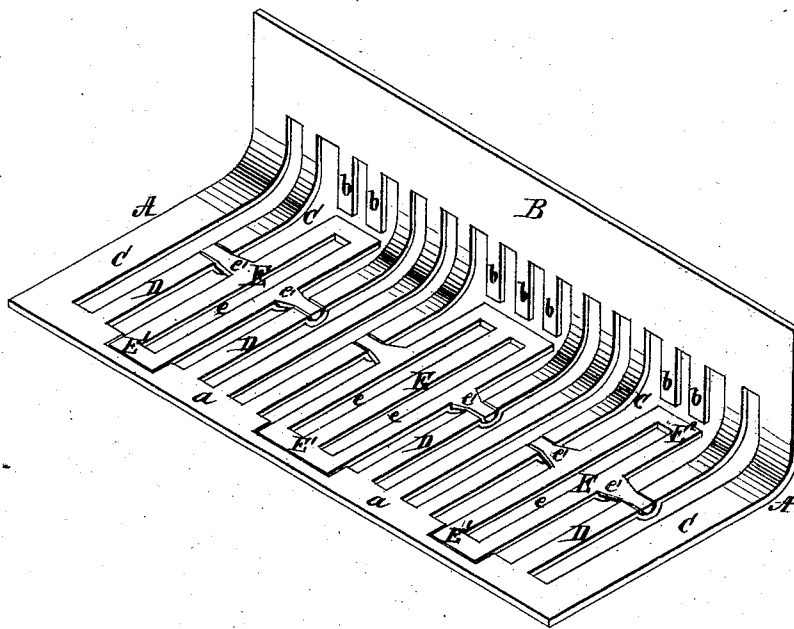


M. A. WITHERS.
Stove-Grates.

No. 153,655.

Patented July 28, 1874.



WITNESSES:

G. Matheys.
Jolon Chemon

INVENTOR:

M. A. Withers
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ATTORNEYS.

UNITED STATES PATENT OFFICE

M. AUGUSTUS WITHERS, OF POTTSTOWN, PENNSYLVANIA.

IMPROVEMENT IN STOVE-GRATES.

Specification forming part of Letters Patent No. **153,655**, dated July 28, 1874; application filed July 15, 1874.

To all whom it may concern :

Be it known that I, M. AUGUSTUS WITHERS, of Pottstown, in the county of Montgomery and State of Pennsylvania, have invented a new and Improved Stove-Grate; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification, in which the figure is a perspective view.

The invention relates to stove-grates; and consists in a novel means whereby the clinkers may be detached and removed from one part of the grate without the necessity of tipping, disarranging, or emptying the whole grate.

These means will first be fully described, and then pointed out in the claim.

A represents an ordinary stove-grate, where-in coal of any variety may be burned for cooking or other purposes. B is the front, having short bars *b* at intervals, and coming quite down, or nearly so, to a level with the bottom C. In the latter, at intervals, the usual grate-bars D are omitted, and in place thereof are substituted a series of plate-levers, E, having one or more slots, *e*, and two fulcrum-arms, *e'*. The latter are located at some distance

from the middle of lever, and are supported in notches or bearings of two adjacent bars, D D. The end of the long arm E¹ of lever rests in a recess of the rear plate *a*, while the end of the short arm E² is free and unsustained, the greater weight of coal on the long arm maintaining the levers securely in place until force is applied to the short arms. Of course this may be reversed, so as to allow the tilting and emptying in the rear.

By these means the clinkers which may form in one part of the fire can be removed without tilting and disarranging the whole.

The hand, a poker, or any suitable instrument may be used for operating upon the end of the short arm of lever.

Having thus described my invention, what I claim as new is—

A stove-grate having a series of slotted levers, each having one free end, two side arms, fulcrumed at some distance from the middle, and arranged at intervals in the bottom of the grate, as and for the purpose specified.

M. AUGUSTUS WITHERS.

Witnesses:

GEORGE L. REIFSNEYDER,
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