

M. PECKHAM.

Fire Grate.

No. 106,502.

Patented Aug. 16, 1870.

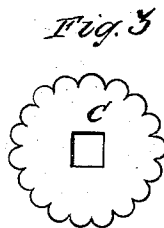
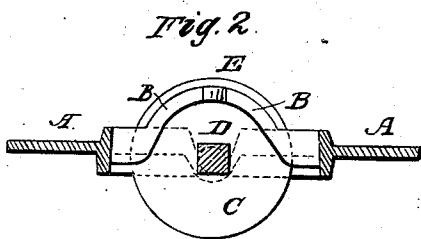
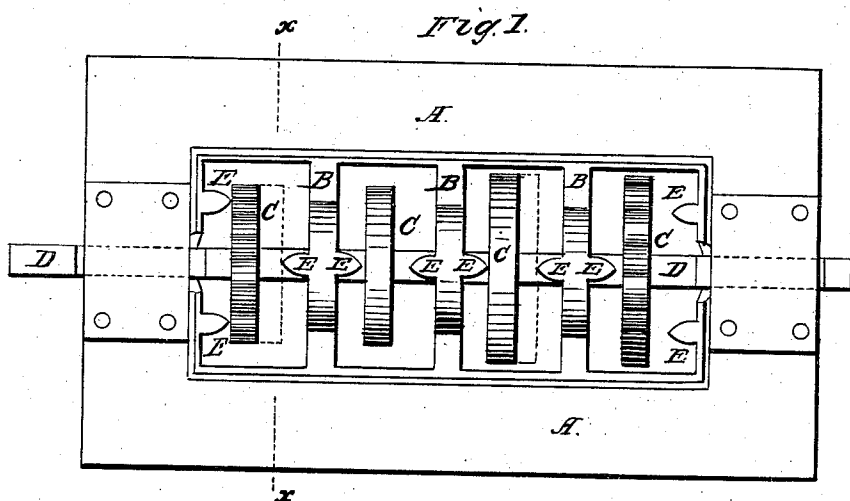


Fig. 4.

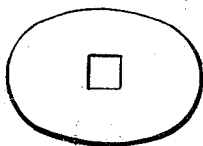
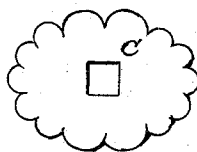


Fig. 5.



witnesses

Wm. G. Mel drum
C. R. Brown

Inventor

Merritt Peckham
By Alex. C. Klauke & Co.



MERRITT PECKHAM, OF UTICA, NEW YORK.

Letters Patent No. 106,502, dated August 16, 1870.

IMPROVEMENT IN FIRE-GRATES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, MERRITT PECKHAM, of Utica, in the county of Oneida and State of New York, have invented a new and useful Improvement in Fire-Grates; and I do hereby declare the following to be a full and correct description of the same, sufficient to enable others skilled in the art to which my invention appertains to fully understand and construct the same, reference being had to the accompanying drawing which makes part of this specification, and in which—

Figure 1 is a plan or top view of my improved grate.

Figure 2 is a sectional end view in line *x x*, fig. 1.

Figures 3, 4, and 5 show different forms of the cleaners and detached views.

Like letters of reference indicate like parts in the several figures.

The nature of my invention consists in cleaning-disks, having either a smooth, serrated, or toothed periphery hung between grate-bars on a shaft, with which they revolve, but on which they slide freely laterally. Also, in lugs formed on the grate-bars, so as to limit the lateral motion of the cleaning-disks.

A in the drawings represents the grate, the bars B of which are sufficiently apart from each other to allow of cleaning-disks, C, to be placed between them, which disks, when not revolved but stationary, act as grate-bars.

These disks C slide laterally upon a square shaft, D, which revolves in suitable bearings at the under side of the ends of the grate.

The disks C may be smaller or larger, and their

periphery may be either smooth, serrated, or toothed, and their shape may be either round or oblong, as may be required under different circumstances.

In revolving the shaft, the disks revolve between the grate-bars, and force down into the ash-pit all ashes and cinders, and, when large pieces of cinders have to pass through, the disks will move laterally, and allow the large pieces to drop through.

To prevent too much of a lateral movement of the disks, I provide lugs E, formed on each side of the grate-bar and at the inner edge of the grate, which lugs, though allowing a free movement of the disks, as shown in dotted lines in fig. 1, still limit such movement to a sufficient degree.

The advantage of this arrangement of disks loosely on the shaft will be clearly understood without further explanation.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The cleaning-disks C, having either a smooth, serrated, or toothed periphery, hung between the bars of a fire-grate, on a shaft, with which they revolve, but on which they laterally slide freely, substantially as herein described.

2. The combination of the above with the lugs E, arranged and operating substantially as and for the purpose herein described.

MERRITT PECKHAM.

Witnesses:

JOHN H. KNOX,
H. D. TALCOTT.