

(No Model.)

H. L. ANDERSON.

STOVE GRATE.

No. 264,992.

Patented Sept. 26, 1882.

Fig. 1.

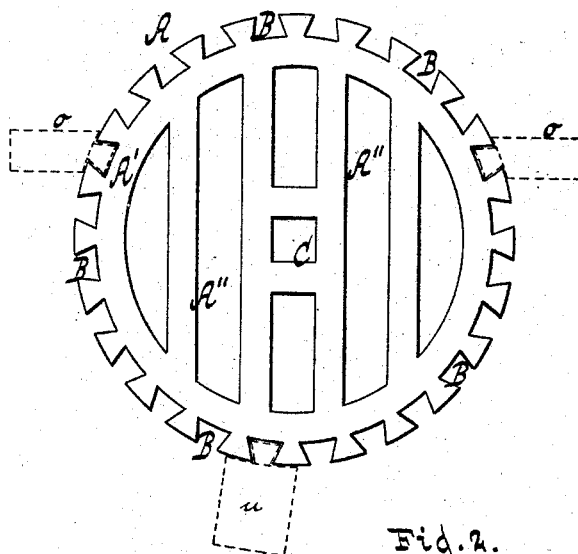


Fig. 2.

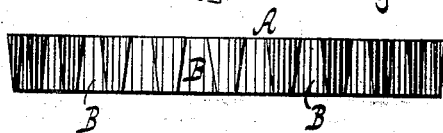


Fig. 3.

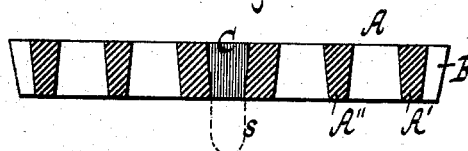


Fig. 5.

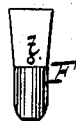
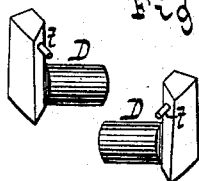


Fig. 6.



Fig. 4.



WITNESSES:

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STOVE-GRATE.

SPECIFICATION forming part of Letters Patent No. 264,992, dated September 26, 1882.

Application filed February 10, 1882. (No model.)

To all whom it may concern:

Be it known that I, HENRY L. ANDERSON, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Stove-Grates, of which the following is a specification.

The object of this invention is to produce a grate wherein the parts required for supporting or manipulating the article are capable of being attached at different points or places to render the grate applicable to stoves of various patterns, and capable at the same time of renewal by being removable.

This invention is illustrated in the accompanying drawings, in which Figure 1 represents a plan or top view. Fig. 2 is a side view. Fig. 3 is a cross-section. Figs. 4, 5, and 6 are detail views of parts.

Similar letters indicate corresponding parts. The letter A designates the body of the grate, composed of a rim, A', and suitable bars, A'', the rim being in this example circular. Upon the rim A' are formed vertical grooves B, which are dovetailed in cross-section, flaring in an inner direction, as shown in Fig. 1, and also dovetailed longitudinally, flaring downward, as shown in Fig. 2, and in the center of the grate is formed a socket, C, tapering in a lower direction, as shown in Fig. 3, these grooves and the socket being formed in casting the grate. The dovetailed grooves or sockets B correspond with each other, and are thus respectively adapted to receive a tenon of a certain size and shape.

In carrying out my invention I supply with each grate at least two pivots, D, Fig. 4, having tenons adapted to the dovetailed grooves or sockets B; also a pivot or journals, F, Fig. 5, having a tenon adapted to the tapering socket C, and a shaking-bar, G, Fig. 6, having a tenon adapted, like the pivots or journals, to the dovetailed grooves.

When the grate is applied to use, if it is desired to arrange the same for dumping, the pivots D are attached by inserting their tenons into the appropriate grooves or sockets, B, as at *o o*, Fig. 1, while if it is desired to arrange the grate for shaking or rotating upon its axis the pivot F is attached by inserting its tenon into the socket C, as at *s*, Fig. 3, and in that event the shaking-bar G is applied by inserting its tenon into one of the grooves or sockets B, as at *u*, Fig. 1. Hence the parts necessary for supporting or manipulating the grate

can be applied at the required places to render the article applicable to stoves of different patterns, while such parts, moreover, by being removable, are adapted to be renewed, as when they become burned or warped. It should be understood, however, that while I consider the means described for attaching the parts to be the best for general uses other equivalent contrivances may be adopted, as circumstances or the views of constructors may render expedient, without departing from my invention.

When the tenons of the pivots D F have been put in place they are fastened by a pin, *t*, inserted into a suitable hole therein, or by other appropriate means.

Stove-grates have heretofore been provided with a central pivot permanently fixed to or forming part of the grate, and detachably supported in a socket provided in a yoke the ends of which are arranged in open bearings, whereby the grate is capable of removal, as is also the supporting yoke. Such, however, does not constitute my invention, the essential feature of which is a pivot or journal detachably connected with the grate itself in such manner that said pivot or journal is capable of being detached from or attached to the grate when desired.

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

1. The combination, with a stove-grate, of a pivot provided with a tenon adapted to be attached to and removed from a groove or socket in the grate itself, substantially as described.

2. The combination, with a grate having grooves or sockets in its perimeter, of pivots or journals provided with tenons adapted to fit said grooves or sockets, substantially as described.

3. The combination, with a grate having dovetailed grooves or sockets in its perimeter, of pivots or journals provided with dovetailed tenons adapted to said grooves or sockets, substantially as described.

4. A stove-grate formed with a central tapering socket, substantially as and for the purpose described.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

HENRY L. ANDERSON. [L. S.]

Witnesses:

CHAS. WAHLERS,
WILLIAM MILLER.