

**Combined Adjustable Fire-Fenders, Grates, and
Andirons.**

Patented May 13, 1873.

Fig. 2. A perspective view of a mechanical device, likely a typewriter or printing press component. It features a series of parallel bars (c) supported by a frame (a) and connected by a mechanism (b). The device is shown in a perspective view, highlighting its three-dimensional structure.

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UNITED STATES PATENT OFFICE.

WILLIAM N. HALL, OF MEXIA, TEXAS.

IMPROVEMENT IN COMBINED ADJUSTABLE FIRE-FENDERS, GRATES, AND ANDIRONS.

Specification forming part of Letters Patent No. **138,885**, dated May 13, 1873; application filed March 22, 1873.

To all whom it may concern:

Be it known that I, WILLIAM N. HALL, of Mexia, in the county of Limestone and State of Texas, have invented certain new and useful Improvements in Combined Adjustable Fire-Fender and Grate, of which the following is a specification:

My invention consists in combining a fire-fender, andirons, and grate, so that all three may be used together, so that two may be combined, and so that the andirons may be used separately, the separate devices being secured as hereinafter described, and the whole being made adjustable to different-sized fire-places, and adapted for use of either wood or coal, as I shall presently state.

In the accompanying drawing, Figure 1 represents a view in perspective of my combined adjustable fire-fender, grate, and andirons. Fig. 2 represents a similar view with the fender removed. Fig. 3 represents a vertical transverse section of the device; and Fig. 4, one of the andirons.

The andirons are cast in two pieces, rear bars A and uprights B, and the two are connected by interlocking, the end of the rear bar passing through the upright, and locked by pin *a* to prevent accidental displacement. The rear bars A form seats for the grate-bars C, and are provided with a sufficient number of projections or tenons *b*, which receive the mortises *c* on the grate-bars. The mortises *c* of the grate-bars are at suitable distances apart, for the purpose of admitting of the adjustment of the combined grate and fender to different fire-places. The uprights B of the andirons are furnished on their face and feet with hooks *d*, which receive the notches *e* of the fender-bars D, which latter also have their notches at suitable distances apart to admit of the adjustment of the whole device to different-sized fire-places, one of which fender-bars is locked with the projecting ends of the rear bars A. The parts may all be cast and put together, or they may be made of rough iron at a smith's shop.

When wood is burned, the grate-bars may be dispensed with, as they are especially for use in burning coal.

From the foregoing description of parts it will be seen that if the andirons are placed in their usual position in the fire-place, and the grate-bars C laid upon them, so that their mortises *c* embrace the tenons *b* of the rear bars A of the andirons, a perfect, compact, and strong coal-grate is produced.

To form the fender, the bars D are locked to the face of the uprights B by means of their notches *e*, embracing the hooks *d* of the uprights. The bottom bar D' rests upon the hooks *d* of the feet of the andirons. The rear bars A of the andirons, passing the uprights B, terminate in hooks *d*², and the notches *e* of the fender-bars D, resting or hanging upon said hooks *d*², effectually fasten the rear bars A and uprights B, without the intervention of the pins *a*, which latter are only necessary when the fender is removed. These pins *a* can be removed at pleasure; but if thought necessary, may serve as an additional security to that afforded by the locking fender-bar D.

It is obvious that the andirons may be used in burning wood independent of the grate and fender.

Having thus described my invention, I claim—

1. Andirons cast or made in two pieces, A and B, and locked by a pin, *a*, or other suitable device, as described.
2. Andirons provided with tenons or projections *b*, to receive and secure mortised grate-bars *c*, in the manner and for the purpose described.
3. Andirons provided with locks arranged to receive and hold the fender-bars, in the manner described.
4. The combined andirons, grate, and fender, constructed and arranged substantially as herein described.

In testimony whereof I have hereunto set my hand this 10th day of March, A. D. 1873.

WILLIAM N. HALL.

Witnesses:

WM. A. BUCKNER,
B. GILLESPIE.