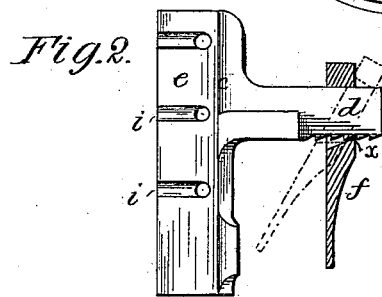
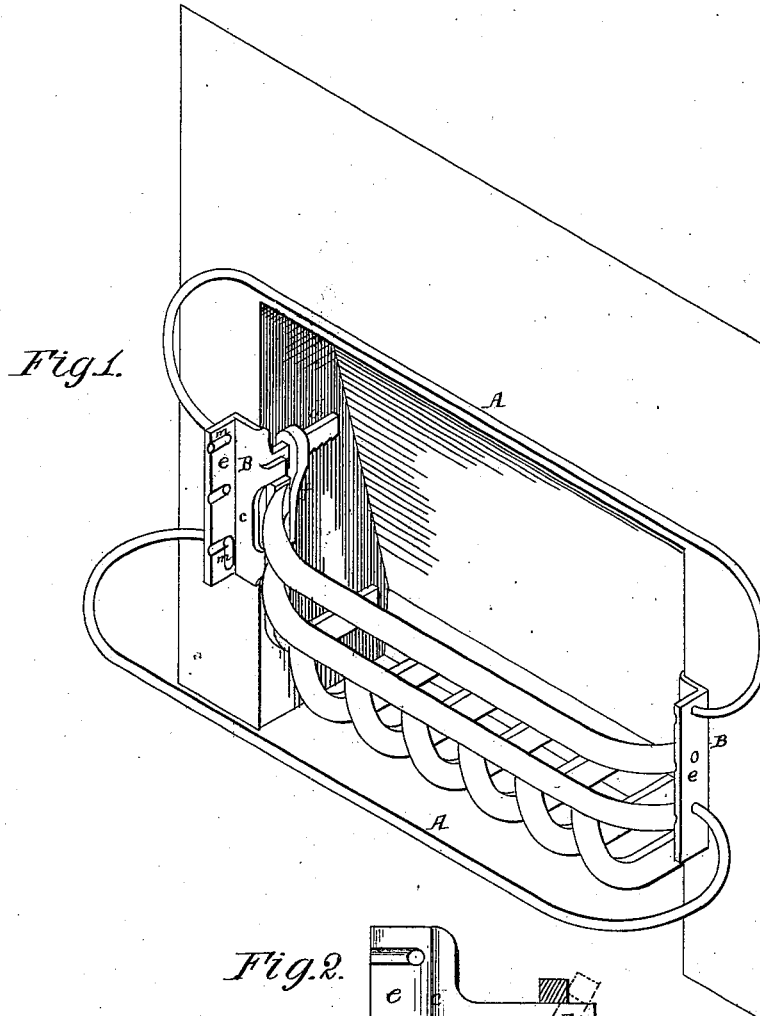


T. F. WILSON.
Grate Fender.

No. 202,084.

Patented April 2, 1878.



Attest:

Frederick Benjamin
Howard Zeeby

Inventor

J. F. Wilson
By his attorney
Charles Porter

UNITED STATES PATENT OFFICE.

THOMAS F. WILSON, OF ROCHESTER, PENNSYLVANIA.

IMPROVEMENT IN GRATE-FENDERS.

Specification forming part of Letters Patent No. **202,084**, dated April 2, 1878; application filed September 20, 1877.

To all whom it may concern:

Be it known that I, THOMAS F. WILSON, of Rochester, Beaver county, Pennsylvania, have invented an Improved Grate-Fender, of which the following is a specification:

The object of my invention is a fender, constructed as fully described hereinafter, to ward off the clothing from the fire without interfering with the necessary access to the latter, and adapted to be readily and quickly applied to different fire-places.

In the drawings, Figure 1 is a perspective view, showing my improved fender applied to a fire-place; and Fig. 2, a detached view.

The fender consists, essentially, of a bent bar, A, and two attachments, B B, to which the ends of the bar are pivoted, and which are constructed, in any suitable manner, so as to be readily connected to the sides or grate of a fire-place. In the present instance each attachment consists of a plate, *c*, provided with a flange, *e*, and an arm, *d*, the latter being serrated at the lower edge, and, when the plate is in position, extending parallel to the side of the fire-place, while the flange *e* is at right angles to the face of the same. On the arm *d* fits a clamp-bar, *f*, having a sharp shoulder, *x*, which catches the teeth on the under side of the arm, and, bearing against the side bar of the grate, clamps the attachment B immovably in its place.

A groove, *i*, in the inner face of the flange *c* communicates with an opening extending through the flange for the reception of the curved bar A, the ends *m* of the bar being so bent as to spring into the grooves when the

bar is raised, retaining it in its place until sufficient pressure is applied to depress it, when the ends will strike the plates *c* and maintain the bar in a horizontal position. By thus bending the bar the necessity of forming expensive joints, hinges, or connections is avoided, and the device is stronger and less expensive.

The clamps *f* are adjustable on the arms *d*, after turning them to the position shown in Fig. 2, and will therefore secure the attachments to grates of different sizes. Clamps or attachments differently constructed may, however, be employed. It will be apparent that two or more bars may be hung to the same attachments.

Without limiting myself to the precise construction shown,

I claim—

1. A fender consisting of a bent bar, A, and attachments B B, jointed to the ends of the bar, and adapted to be secured to the grate or fire-place, as set forth.

2. The combination of the attachments B B, their holes and grooves, and the bent bar A, bent at the ends, as set forth.

3. The combination of the bent bar A, the attachments B B, having arms *d*, and the clamp-bars *f*, adjustable on the said arms, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THOMAS F. WILSON.

Witnesses:

HARTFORD P. BROWN,
F. G. CUNNINGHAM.