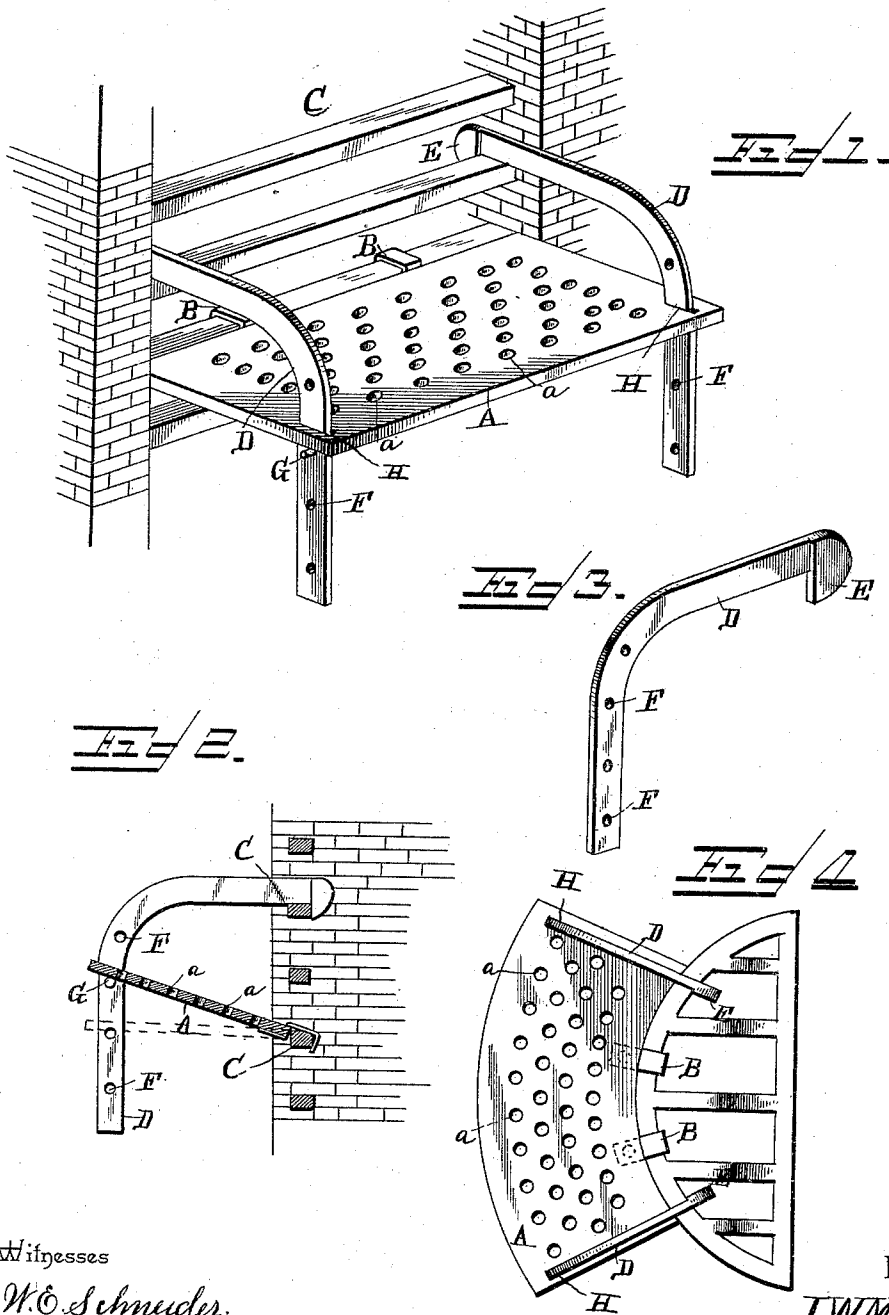


(No Model.)

J. W. MILLER.  
GRATE SHELF.

No. 487,422.

Patented Dec. 6, 1892.



Witnesses

W. C. Schneider.

*W. C. Schneider*

By his Attorneys,

*C. A. Snow & Co.*

Inventor

*J. W. Miller*

# UNITED STATES PATENT OFFICE.

JOHN W. MILLER, OF BELLMORE, INDIANA.

## GRATE-SHELF.

SPECIFICATION forming part of Letters Patent No. 487,422, dated December 6, 1892.

Application filed July 15, 1892. Serial No. 440,170. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN W. MILLER, a citizen of the United States, residing at Bellmore, in the county of Parke and State of Indiana, have invented a new and useful Grate-Shelf, of which the following is a specification.

My invention relates to improvements in rests or supports for sad or flat irons, adapted to be attached to grates, stoves, &c., to enable the irons to be heated without smoking or otherwise soiling them.

The object of my invention is to provide a rest or support for this purpose which may be attached to any grate-front without previous preparation of the latter.

A further object of my invention is to provide a rest or support which may be arranged at any desired angle or inclination to receive the direct rays of heat from the fire in the grate.

A further object of my invention is to accomplish the above objects in a cheap and simple device.

My improved rest or support is fully described in connection with the accompanying drawings, and the novelty thereof is clearly pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of my improvement applied in the operative position to a grate-front. Fig. 2 is a vertical transverse sectional view of the same. Fig. 3 is a detail view of one of the supporting arms or braces. Fig. 4 is a plan view of a rest or support adapted for curved or convex grate-fronts, the positions of the supporting arms or braces being indicated in dotted lines.

A designates the supporting-plate, of iron, steel, or other suitable metal, provided, as at *a a*, with perforations and provided at its rear edge with the rearwardly-projecting angular or hook-shaped clips *B B*, which are adapted, as indicated in Figs. 1 and 2 of the drawings, to engage or fit over one of the grate-bars. (Shown at *C*.)

*D D* designate supporting arms or braces provided at their rear or upper ends with heads or hooks *EE* to engage one of the grate-bars above the bar to which the above-mentioned clips are attached, and provided at their front or lower ends with series of perforations *F F* to receive a transverse pin or

key *G*. These supporting arms or braces are curved or arc-shaped, their front or lower ends extending through guide-openings *H H* at the ends and near the front edge of the plate. The pins or keys *G* are inserted in the perforations beneath the plate to hold the latter at the desired inclination, as will be understood by reference to Fig. 2, in which an adjusted position of the plate is shown in dotted lines.

To attach the improved rest or support to a grate-front, the clips upon the rear side of the plate are first applied to one of the lower bars, and then the heads or hooks at the rear ends of the braces are engaged with an upper grate-bar, and then holding the plate at the desired inclination the pins or keys are adjusted to maintain the parts in the preferred relative positions. The perforations in the plate allow dust and dirt which may fall thereon to drop through, so that the surface of the plate may be kept free.

In Fig. 4 is shown a plan view of a curved rest or support to indicate that my invention may be applied with equal advantages to grates having straight and curved bars. In this case the supporting arms or braces, which are indicated in dotted lines, are arranged parallel with the side edges of the plate, said side edges being arranged in the positions of radials, to the circles of which the arcs forming the front and rear edges of the plate are segments.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. In a sad-iron rest or support, the combination, with the supporting-plate provided at its rear edge with clips to engage the grate-bars, of supporting arms or braces connected at their lower ends to the supporting-plate near its front edge and provided at their upper ends with heads or hooks to engage upper grate-bars, substantially as specified.

2. In a sad-iron rest or support, the combination, with the supporting-plate provided with clips to engage the grate-bars, of supporting arms or braces provided at their rear ends with heads or hooks to engage upper grate-bars and extending at their front ends through guide-openings in the supporting-plate, and pins or keys to engage perfora-

tions in said arms or braces, substantially as specified.

3. In combination with the supporting-plate of a sad-iron rest or support, the curved or  
5 arc-shaped supporting arms or braces attached at their rear ends to upper grate-bars and adjustably attached at their front ends to the said plate, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOHN W. MILLER.

Witnesses:

CLINTON MURPHY,  
M. W. MARSHALL.