No. 770,729. PATENTED SEPT. 20, 1904.

H. E. MOOMAW.

FIREPLACE GRATE.

APPLICATION FILED MAY 19, 1904.

NO MODEL.

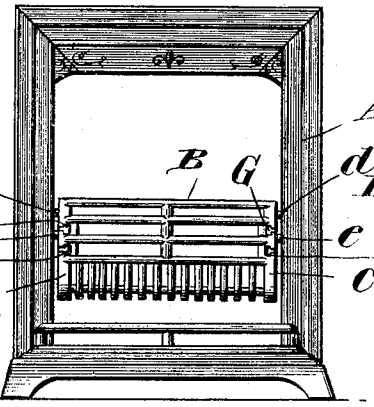


Fig. 1.

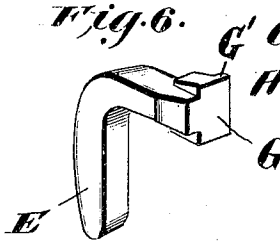


Fig. 6.

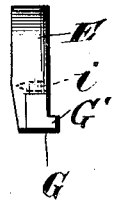


Fig. 7.

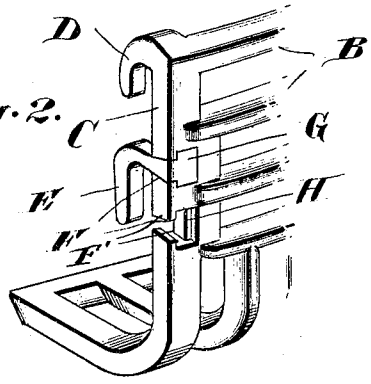


Fig. 2.

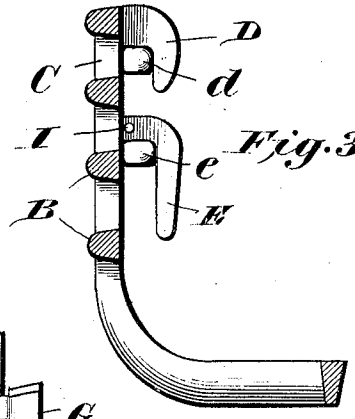


Fig. 3.

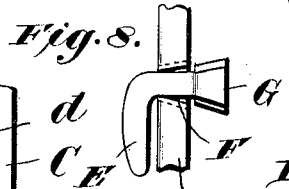


Fig. 8.

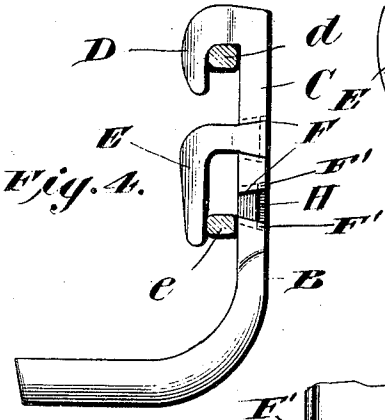


Fig. 4.

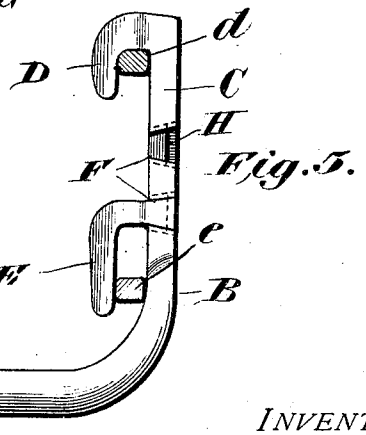


Fig. 5.

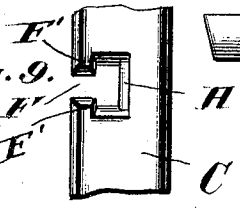


Fig. 9.

WITNESSES:

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No. 770,729. Patented September 20, 1904.

UNITED STATES PATENT OFFICE.

HENRY E. MOOMAW, OF CHATTANOOGA, TENNESSEE.

FIREPLACE-GRATE.

SPECIFICATION forming part of Letters Patent No. 770,729, dated September 20, 1904.

Application filed May 19, 1904. Serial No. 208,674. (No model.)

To all whom it may concern:

Be it known that I, HENRY E. MOOMAW, a citizen of the United States of America, and a resident of Chattanooga, county of Hamilton, State of Tennessee, have invented certain new and useful Improvements in Fireplace-Grates, of which the following is a full and clear specification, reference being had to the accompanying drawings, in which—

Figure 1 is a front view of a fireplace provided with my improvement; Fig. 2, a perspective view of one end of the grate-basket detached; Fig. 3, a vertical section of the basket; Figs. 4 and 5, end views showing the two adjustments of which the device is capable; Fig. 6, a perspective view of the adjustable hook detached; Fig. 7, a plan view of the same; Fig. 8, a detail showing the manner of removing the adjustable hook; Fig. 9, a detail front view showing the shape of the hook-receiving notch.

The object of this invention is to provide extremely inexpensive and durable means whereby the grate-basket-supporting hooks are rendered adjustable to differently-spaced lugs on the grate-frames, thereby avoiding the necessity of keeping in stock a variety of grate-baskets to fit the various makes of grate-frames now manufactured, as more fully hereinafter described.

Referring to the drawings by letters, A designates the fireplace or grate-frame, provided with the usual supporting-lugs *d e*, and B the usual grate-basket, provided at the upper end of each of its vertical side bars C with the usual integral hook D, adapted to engage over the upper lug *d* and support the basket. Attached to each side bar C just below hook D is a supplemental hook E, which is adapted to engage over lower lug *e* and prevent the basket swinging outward. This hook is rendered vertically adjustable by being made to removably fit into either one of two sockets F, formed one above the other in the side bar of the grate-basket, so as to thereby render the grate-basket adaptable to grate-frames whose lugs are differently spaced. Each hook E consists of a depending hook part and a forwardly-extending shank having a head G formed on its end. This head tapers rearwardly, so as to fit the similarly-tapered socket in the grate-basket, and to limit its rearward movement it is provided with a vertical rib G′ at its inner edge, which abuts against a shoulder H in the socket. The sockets F are each open at the outer side of the bar in which they are formed, this opening or throat being narrower than the socket itself, in which the head fits, as shown most clearly in Fig. 9. This narrower or throat portion is formed by the two approaching lugs F′. These lugs F′ abut against the outer sides of the head G and prevent it being displaced laterally; but they have sufficient space between them to permit the shank of the hook to pass in and out of the socket for attachment or detachment of the hook, as shown in Fig. 8. To prevent the head being forced forward and out of its socket accidentally, a lock-pin I is removably inserted in a hole *i* in the inner side of the shank, as shown in Figs. 3 and 7.

It will be seen that by inserting the supplemental hook into one or the other of the sockets the grate-basket can be adapted to differently-spaced lugs on the grate-frame, and by making the depending part of the hook comparatively long—that is, longer than the permanent hook, as shown—a sufficiently wide range of adjustment is provided for to accommodate all the various grate-frames of this character in use. In view of this wide range of adjustability it will be necessary for dealers to keep in stock but this one style of grate-basket, where heretofore it has been necessary to keep in stock a comparatively large supply of different makes to accommodate the various styles of grate-frames in use.

The advantage of locating the locking device I in the place shown—namely, in the inner corner formed by the inner and rear faces of the supplemental hooks and the upright bars of the baskets—lies in the fact that they will be out of sight and out of the way, so that when the basket is in position it will not have the appearance of a temporary or makeshift affair.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A grate-basket provided at each of its

upper corners with a permanent hook and below each of these hooks with a vertically-adjustable supplemental hook, the depending part of this latter hook being longer than the depending part of the upper hook, whereby a wide range of adjustment is secured with but a limited vertical adjustment of the hook.

2. A grate-basket provided with side bars and a hook at each upper corner and a pair of sockets in each side bar below said hook, a pair of supplemental hooks each having a head adapted to fit said sockets, interengaging lugs being formed on the heads and sockets to prevent lateral and rearward displacement when in place, and a locking device engaging the inner face of each supplemental hook and the adjacent rear face of the side bar to prevent the hook being forwardly displaced.

3. A grate-basket provided with side bars and a hook at each upper corner and a pair of rearwardly-tapering sockets in each side bar, said sockets being each open at one side, a pair of supplemental hooks each having a similarly-tapering head adapted to fit said sockets, and means for preventing accidental withdrawal of said heads, for the purpose set forth.

4. A grate-basket provided with side bars and a hook at each upper corner and a pair of sockets in each side bar below said hook, each socket being open at the outer side of the bar, and supplemental hooks provided with heads adapted to fit said sockets, the heads and sockets being provided with interengaging lugs to prevent rearward and lateral displacement of the hooks when seated.

5. A grate-basket provided with side bars and a hook at each upper corner and a pair of rearwardly-tapering sockets in each side bar below said hook, a pair of supplemental hooks each having a similarly-tapering head adapted to fit said sockets, and a removable pin inserted in the inner side of each supplemental hook back of the side bar to prevent forward movement of the hook when in place, for the purpose set forth.

In testimony whereof I hereunto affix my signature, in the presence of two witnesses, this 16th day of May, 1904.

HENRY E. MOOMAW.

Witnesses:
W. H. RUSTWOOFF,
F. H. CHALMERS.