H. ANSHUTZ.

Casting Fire-Grates.

No. 134,832. Patented Jan. 14, 1873.

Fig. 1.

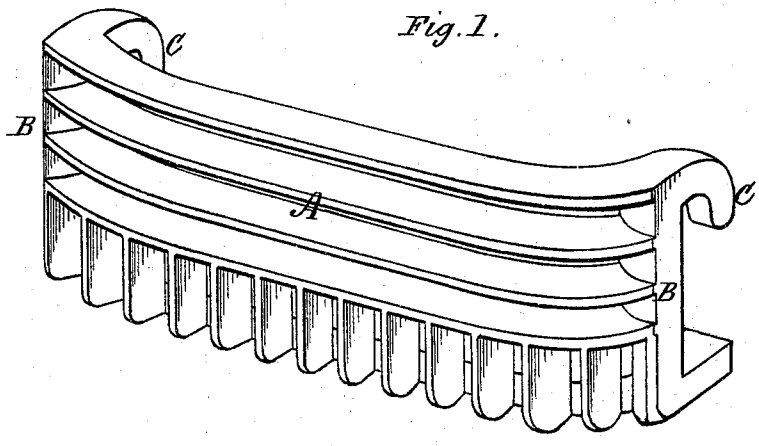


Fig. 2.

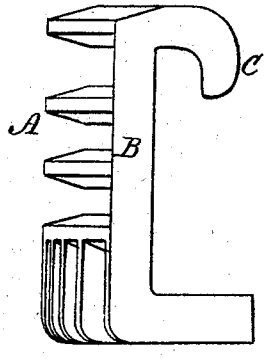
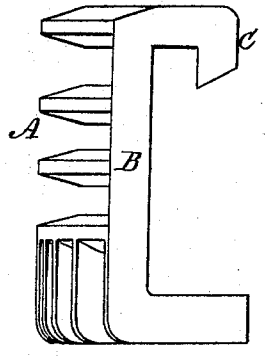


Fig. 3.



Witnesses.

Edmund Masson

John R. Young

Inventor.

Henry Anshutz, by

Pindle and Co. his Attys

UNITED STATES PATENT OFFICE.

HENRY ANSHUTZ, OF ALLEGHENY, PENNSYLVANIA.

IMPROVEMENT IN CASTING FIRE-GRATES.

Specification forming part of Letters Patent No. **134,832**, dated January 14, 1873.

To all whom it may concern:

Be it known that I, HENRY ANSHUTZ, of Allegheny City, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Fire-Grates; and do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a perspective view of a grate containing my improvements; Fig. 2 is an end elevation of the same; and Fig. 3 is a like view of a grate constructed in the usual manner.

Letters of like name and kind refer to like parts in each of the figures.

The design of my invention is to increase the strength and durability of hooks or lugs employed for attaching a fire-grate to or upon the jambs of a fire-place, and at the same time to render more easy the construction of said grate; to which end, it consists in a grate as a new article of manufacture when provided with curved lugs or hooks, substantially as and for the purpose hereinafter specified.

In the annexed drawing, A represents a fire-grate composed of a number of horizontal and vertical bars connected together in the usual manner. Extending rearward and downward in a curve from the upper end of each vertical end bar B is a lug or hook, C, which, when the grate is in position within a fire-place, passes over a corresponding bar that projects outward from the fire-jamb and furnishes a support for and locks in place said grate.

As constructed, it will be seen that, in consequence of the peculiar shape of the space between the hook C and the bar B, the weight of the grate and its contents causes said hook to bear so firmly upon its jamb-bar as to prevent all motion of said parts and render easy the fitting of the same together, while with the ordinary construction of the hook (seen in Fig. 3) so much difficulty is experienced in properly combining the same with its jamb-bar that it is customary to fit them loosely together, by which means a certain amount of horizontal motion is given to said grate whenever the fuel is shaken, which motion constantly increases until the fastenings are broken or worn out.

In addition to the above-named advantage, from its form the hook is found to be stronger and less liable to injury from use, while, in molding the grate, said hook is made detachable and readily withdrawn from the sand after the main pattern has been removed, by which means the usual dry core-print is dispensed with, the labor of preparing the mold decreased, the liability of injury to the casting from "blowing" avoided, and the cost of the grate materially lessened.

Having thus fully set forth the nature and merits of my invention, what I claim as new is—

As a new article of manufacture, a fire-grate, A, provided with curved supporting or locking hooks C, substantially as and for the purpose specified.

In testimony whereof I have hereunto set my hand this 14th day of May, 1870.

HENRY ANSHUTZ.

Witnesses:

JOHN HABERMEHL,

D. M. MULLIN.