

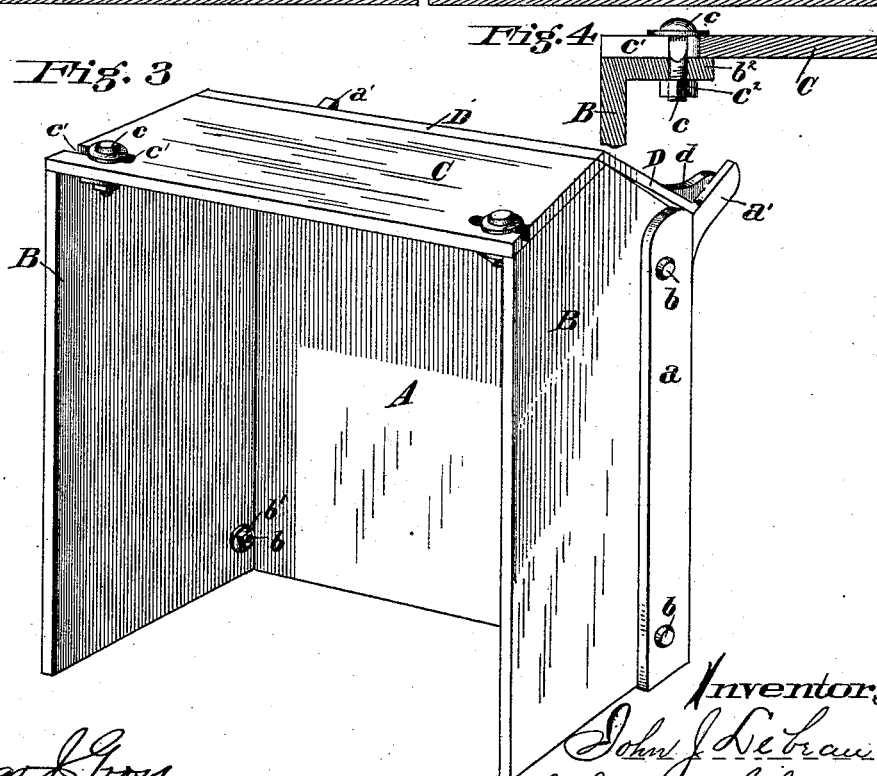
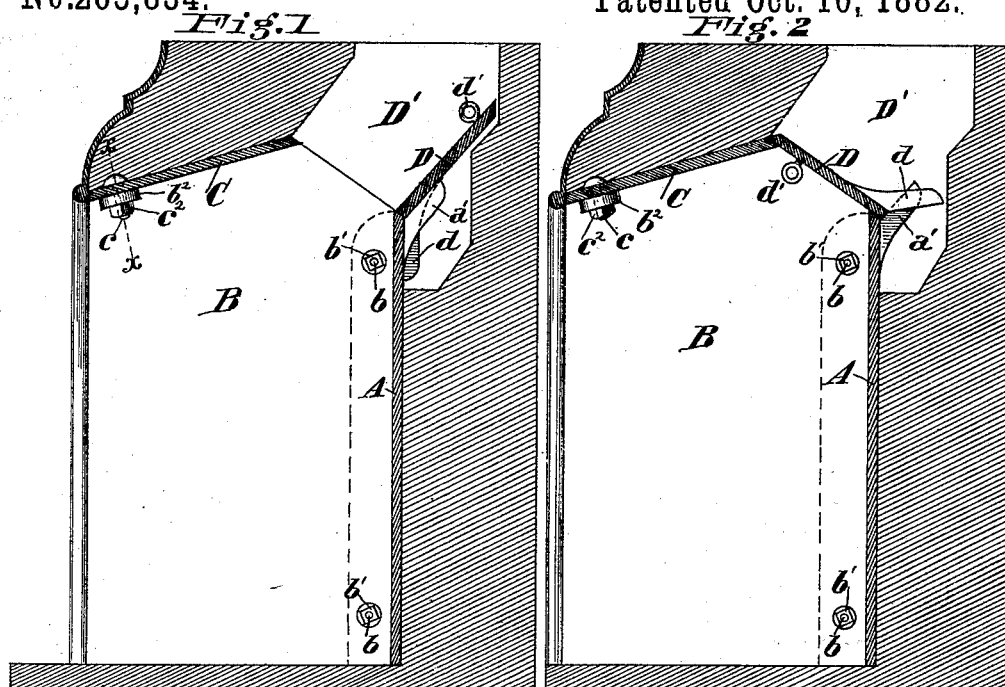
(No Model.)

J. J. LEBEAU & C. L. SHANNON.

FIRE PLACE FRAME.

No. 265,834.

Patented Oct. 10, 1882.



Attest

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Inventors

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UNITED STATES PATENT OFFICE.

JOHN J. LEBEAU AND CHARLES L. SHANNON, OF CINCINNATI, OHIO, AS-
SIGNORS TO THE EUREKA CO-OPERATIVE FOUNDRY ASSOCIATION, OF
SAME PLACE.

FIRE-PLACE FRAME.

SPECIFICATION forming part of Letters Patent No. 265,834, dated October 10, 1882.

Application filed June 21, 1882. (No model.)

To all whom it may concern:

Be it known that we, JOHN J. LEBEAU and
CHAS. L. SHANNON, of Cincinnati, in the county
of Hamilton and State of Ohio, have invented
certain new and useful Improvements in Fire-
Place Frames, of which the following is a speci-
fication.

Our invention is in the nature of an improve-
ment in the frames of grate fire-places, and
has for its object, first, the construction and ar-
rangement of the jambs in such a manner that
they may be adjusted to slightly varying lengths
of fire-baskets; and, second, in providing a
throat in the top of the frame, which, in con-
junction with a movable plate, enables the fire-
place to be effectually closed against downdraft
when the grate is out of use, as in summer.

Our invention consists of a back plate of cast-
iron, which is furnished at each end with ver-
tical flanges disposed at right angles to the
back, to which flanges are attached, by means
of screw-bolts, the side jambs of the fire-place.
Attached to the top forward edges of the two
side jambs, by means of screw-bolts, is a cross-
plate, the bolt-holes in which are slotted to per-
mit of moving the jambs inward or outward to
receive different lengths of fire-basket. The
space between the back edge of the cross-plate
and the upper edge of the back plate forms a
throat, over which is fitted a tilting plate, which,
when closed, rests upon the edges of the throat,
and when opened is supported by brackets on
the back plate and by brackets cast upon its up-
per surface, which latter are so disposed with
relation to the brackets on the back plate as to
guide the tilting plate and retain it in position
on the frame, all of which will be fully described
hereinafter.

In the accompanying drawings, Figure 1 is
a sectional elevation of our improved frame,
showing the tilting plate thrown back and the
throat open. Fig. 2 is a similar section, show-
ing the tilting plate down and the throat closed.
Fig. 3 is a perspective front view of the frame,
showing the devices for adjustment of the side
jambs; and Fig. 4 is a section on the line *x x*
of Fig. 1, showing the means of fastening the
jamb and cross-plate together.

Similar letters of reference indicate similar
parts.

A is the back plate of the frame, of which *a*
a are the vertical flanges, preferably cast with
the back plate.

B-B are the side jambs, secured to the flanges
a a by screw-bolts *b b*. The bolts *b b* are pro-
vided with a squared neck or shank fitting cor-
responding square holes in the flanges *a a*, by
which means the bolts *b* are prevented from
turning during the screwing of the nut *b'* in
either direction.

C is the cross-plate, secured to the side jambs
by the bolts *c*. The squared necks of the bolts
c are fitted to the slots *c' c'* in the ends of the
plate C to prevent turning. Lugs *b² b²*, cast
with the jambs B B, receive the round portions
of the bolts *c c*, against which the nuts *c²* im-
pinge when screwed up to secure the parts B
B and C in position.

In adjusting the frame to a basket of length
greater or less than the clear space between
the side jambs, the nuts *c²* and *b'* are first
loosened slightly and the jambs B B pressed
outward or inward to adapt the space between
them to the exact length of the basket, when
the nuts *c²* are tightened, and then the nuts *b'*
are set up to secure the parts A, B B, and C
firmly together.

D is the tilting plate, of such length and
width as to rest upon and cover the edges of
the throat D'.

d d are brackets or lugs cast with the plate,
and so proportioned as to rest against the rear
surface of the back plate, A, when the upper
surface of the tilting plate rests upon the in-
clined faces of the brackets or lugs *a' a'*. The
brackets *a' a'* are preferably cast with the back
plate, A. The separation of the outer surfaces
of the brackets *d d* is slightly less than the
separation of the inner surfaces of the brackets
a' a', whence the brackets *d d* and *a' a'* mutu-
ally serve as guides and stops to limit the mo-
tion of the plate D and to retain it in position
on the frame. An eye, *d'*, which may be cast
with the tilting plate D, enables it to be drawn
forward to close the throat when the fire-place
is out of use.

The throat D' connects the grate and the flue formed in the chimney-breast, as clearly shown in Figs. 1 and 2. So long as the grate or fire-place is in use the throat D' is open, as shown in Fig. 1; but when it is out of use—as, for instance, in the summer season—the throat is closed, as shown in Fig. 2, whereby all downdrafts from contrary gales are avoided. The necessity of closing the connection between the fire-place and the flue is generally recognized by housekeepers, who, for the lack of a better means, are accustomed to stuff the throat of the fire-place with rolls of paper or rags to prevent the downdrafts and avoid the consequent injury and inconvenience of showers of soot and dust.

The advantage of the adjustable side jambs to compensate for slight variations in the length of fire-baskets will be appreciated by grate-setters, who frequently find fire-place frames furnished with baskets so long as to refuse to enter the frame, or so short as to have a precarious support on the customary hooks cast upon the backs and side jambs, as shown at b^3 and a^2 .

Having described our invention, what we claim is—

1. In a fire-place for grates, the combination

of the horizontal top plate, C, the side jambs, B B, having their upper ends adjustably connected with the ends of the top plate, and the vertical back plate, A, connected with the rear ends of the side jambs, substantially as described.

2. In a fire-place for grates, the combination of the top plate, C, having slots c' at its ends, the side jambs, B, having flanges b^2 adjustably connected with the top plate by bolts c passing through the slots in the latter, and the back plate, A, having flanges a connected with the rear ends of the side jamb by means of bolts b , substantially as described.

3. In a fire place frame for the reception of a fire basket or grate, the tilting plate D, provided with brackets d d , in combination with the back plate, A, having brackets a' a' , substantially as and for the purpose described.

In testimony whereof we have signed our names to the foregoing specification in the presence of two subscribing witnesses.

JOHN J. LEBEAU.

CHARLES L. SHANNON.

Witnesses:

JOHN W. HILL,

EDGAR J. GROSS.