

R. SOLLIDAY,  
Stove Grate.

2 Sheets—Sheet 1.

No. 103,098.

Patented May 17, 1870.

FIG. 1

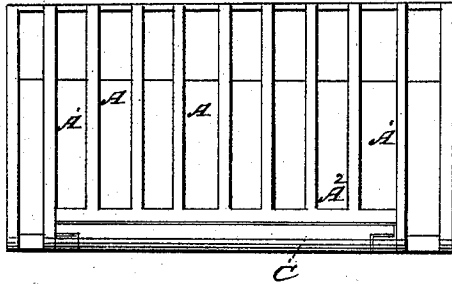
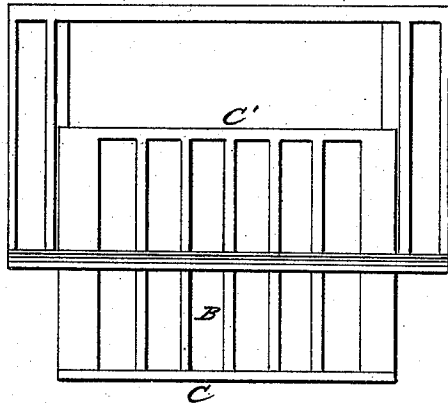


FIG. 2



WITNESSES:

*Edward Mall*  
*Asst. Connolly*

INVENTOR:

*Ruben Solliday*  
*by Thos. A. Connolly*  
*his atty.*

2 Sheets—Sheet 2.

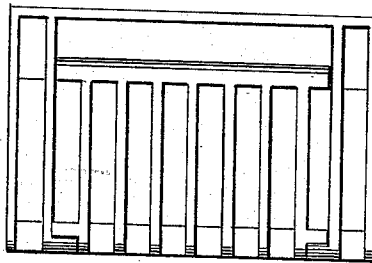
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FIG. 3



WITNESSES:

*A. A. Connolly*  
*J. M. C. Perkins*

INVENTOR:

*Reuben Solliday*  
*by T. A. Connally*  
*his atty.*

# United States Patent Office.

REUBEN SOLLIDAY, OF ALLENTOWN, PENNSYLVANIA.

Letters Patent No. 103,098, dated May 17, 1870.

## STOVE-GRATE.

The Schedule referred to in these Letters Patent and making part of the same

I, REUBEN SOLLIDAY, of Allentown, in the county of Lehigh and State of Pennsylvania, have invented a certain Improvement in Grates, of which the following is a specification.

This invention consists of the employment, in a grate having a vertical front and horizontal base, of a sliding bottom which may be easily inserted or withdrawn, so that, when the bottom is burned so as to be useless, it may be replaced by a new one.

In the accompanying drawings—

Figure 1 is a front view of the grate.

Figure 2 is a top view of the same.

Figure 3 is a front view of the grate showing vertical extension of sliding bottom.

A A<sup>1</sup> are the vertical bars composing the front of the grate, across the lower ends of which is a horizontal bar, A<sup>2</sup>.

The end bars A<sup>1</sup> reach in a vertical line to the back part of the grate, and are flanged at *a* on their inner sides, to receive the flanged sliding base B.

C is the front, and C' the end of said slide, which is inserted, as shown in fig. 1, below the horizontal bar A<sup>2</sup>.

I am aware that grates have been constructed which have one or two of the middle bars of the base removable for the purpose alone of cleaning the grate, without reference to their renewal when destroyed by fire, as the entire bottom of the grate is as liable to be burned as any single spot. In this case, if the grate-bars should be burned out on either side of the slid-

ing or removable bars, the insertion of new ones would be of little advantage.

The present invention is not designed to be used simply for the purpose of removing the ashes from the grate, though for such purpose it is applicable, but as providing a means of rendering a grate, otherwise useless, as good as a new grate, and at much less cost and labor, as the sliding bottoms can be made and sold separately.

The slide may advantageously be made to form part of the front of the grate, which is liable to be burned out near the base. The exact direction, in which the front or base-bars run is not material.

I do not claim, broadly, sliding bars in the base of a grate, and I particularly disclaim the subject-matter of the patent of S. J. Kelley, of October 20, 1863; but

I claim—

1. The removable grate-base, consisting of the entire bottom, exclusive of the surrounding frame, when constructed with flanged sides, in combination with the correspondingly flanged base-bars of the said frame, as and for the purpose specified.

2. The combination of the flanged sliding base and vertical extension thereof, as shown in fig. 3, for the purpose set forth.

REUBEN SOLLIDAY.

Witnesses:

THOS. A. CONNOLLY,  
A. A. CONNOLLY.