

104703

G. BUCHANAN.
ADJUSTABLE
GRATE FENDER.

Fig. 1.

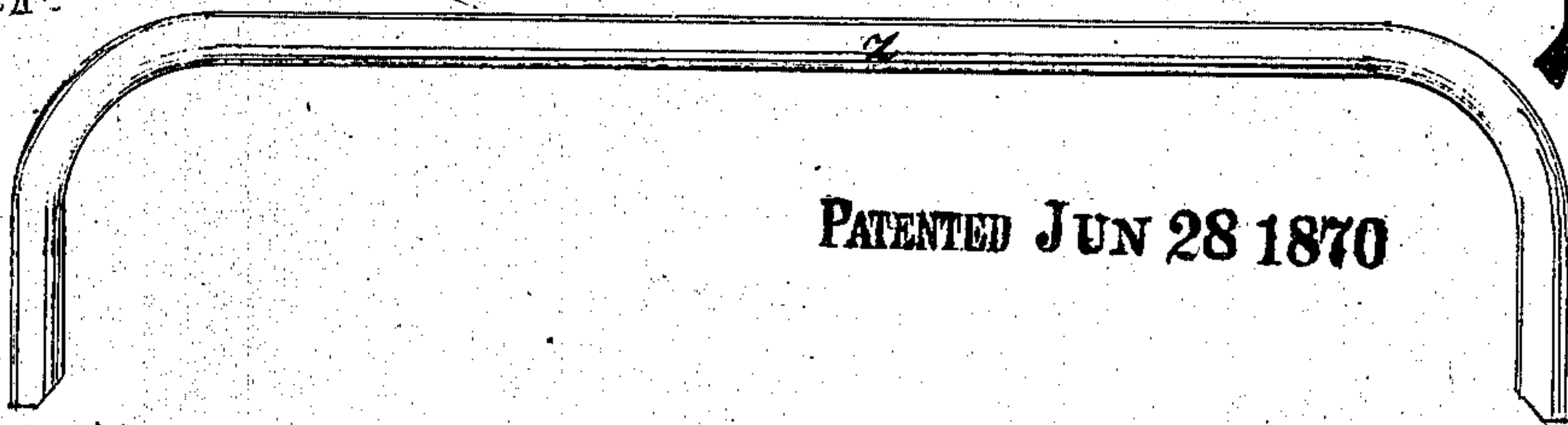


Fig. 2.

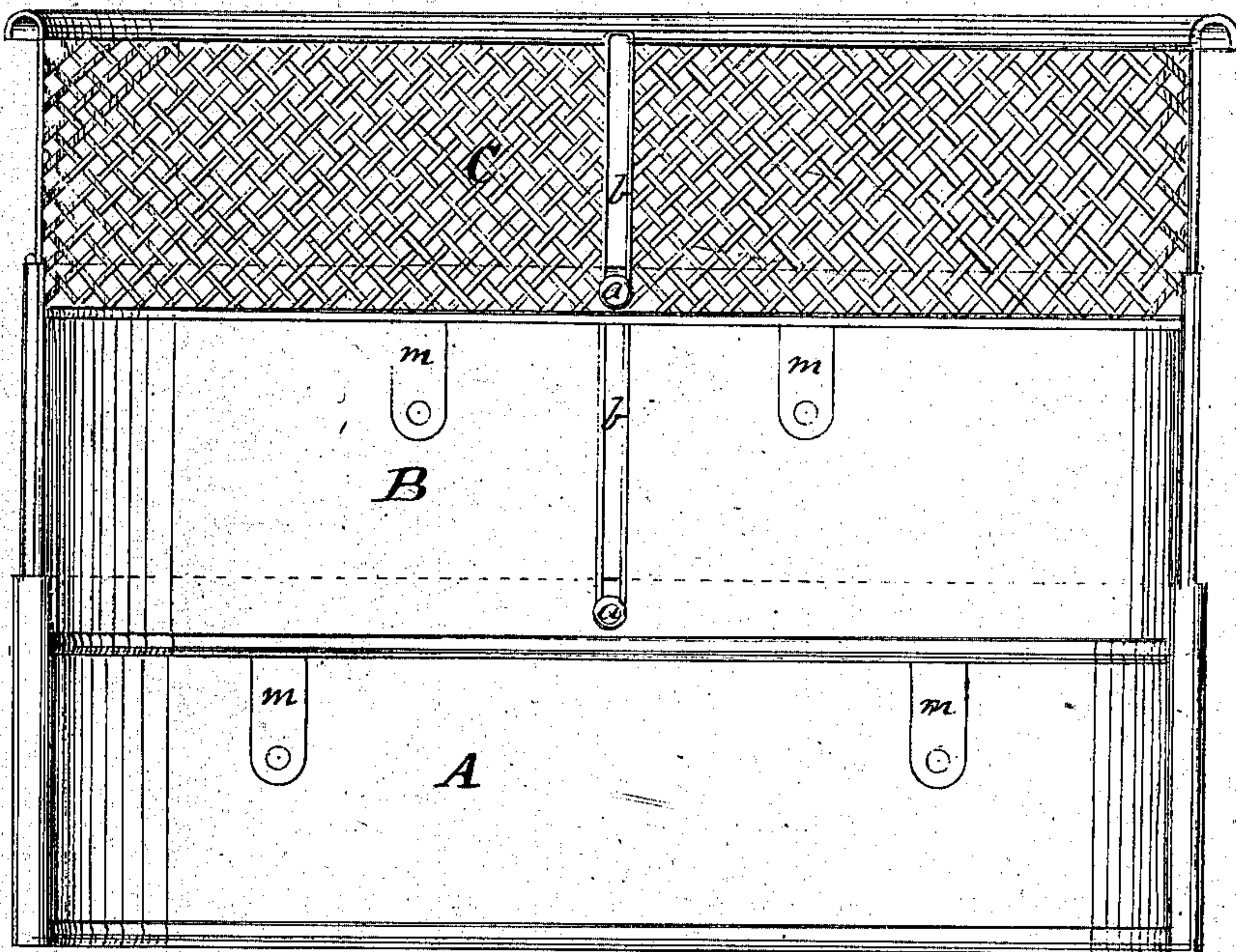
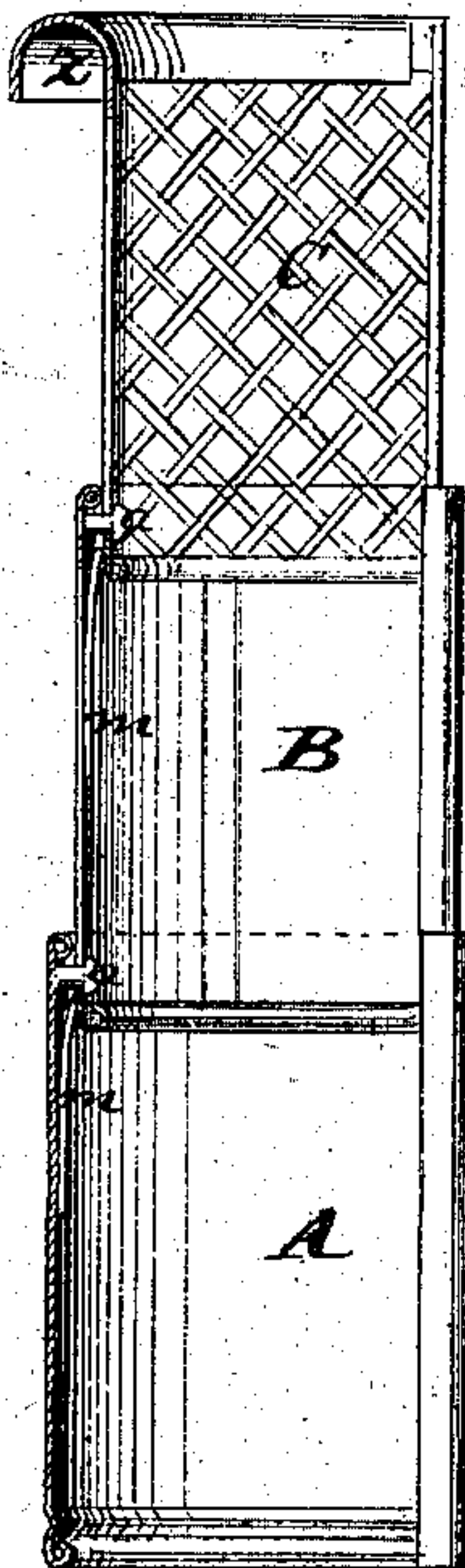


Fig. 3.



Witnesses.
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GEORGE BUCHANAN, OF WASHINGTON, PENNSYLVANIA.

Letters Patent No. 104,703, dated June 28, 1870.

COMBINED HEARTH, GRATE, AND FENDER.

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

To all whom it may concern:

Be it known that I, GEORGE BUCHANAN, of Washington, in the county of Allegheny and State of Pennsylvania, have invented a new and valuable Improvement in Fenders; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a top view of my fender.
Figure 2 is a rear view of the same.

Figure 3 is a central vertical section of the same.

My invention relates to fire-place fenders, and consists in the construction and novel arrangement of the parts thereof, whereby the fender can be used at the ordinary height during the day, and at night, or when the occupants are absent from the apartment, its height can be increased to an extent that will effectually prevent danger from the ejection or falling of cinders, sparks, or live coals, upon the floor.

The letter A of the drawing represents the outer and lower section of my fender,

B the middle section, and

C the upper section thereof.

Any number of sections may be employed, but three are usually found sufficient to accomplish the object.

Either or all of the sections may be made in open-work, care being taken that the spaces are sufficiently small to prevent the passage of the inflammatory particles from the fire.

The sections are attached together by means of studs *a* and slots *b*, in the center and at each side.

Instead of using the studs and slots at the sides, the ends of the fenders have been arranged to slide one within another. Instead of the simple studs *a*, set-screws may be employed, in order that the fender may be confined at any desired height.

In order to keep the sections in contact, and to prevent them from falling when the simple studs are employed, the springs *m m* are used.

L represents a curved lip, formed along the upper edge of the upper section, and designed to fall over the upper edges of the other sections, and to conceal them when the fender is not elevated, thus giving it a lighter appearance and preventing the admission of dust.

I do not desire to confine myself to any precise mode of constructing the parts of my fender; but

What is claim as my invention, and desire to secure by Letters Patent, is—

1. A vertically-adjustable fender, composed of the sections A, B, and C, when arranged to slide within each other, as specified.

2. The adjustable fender herein described, composed of the outer section A and vertically-sliding sections B and C, connected by the studs *a* and slots *b*, and provided with the springs *m* and covering-lips L, substantially as and for the purposes specified.

In testimony that I claim the above, I have hereunto subscribed my name in the presence of two witnesses.

GEO. BUCHANAN.

Witnesses:

G. W. RANKIN,
JOHN J. MITCHEL.