

No. 627,858.

Patented June 27, 1899.

M. H. LITTELL.

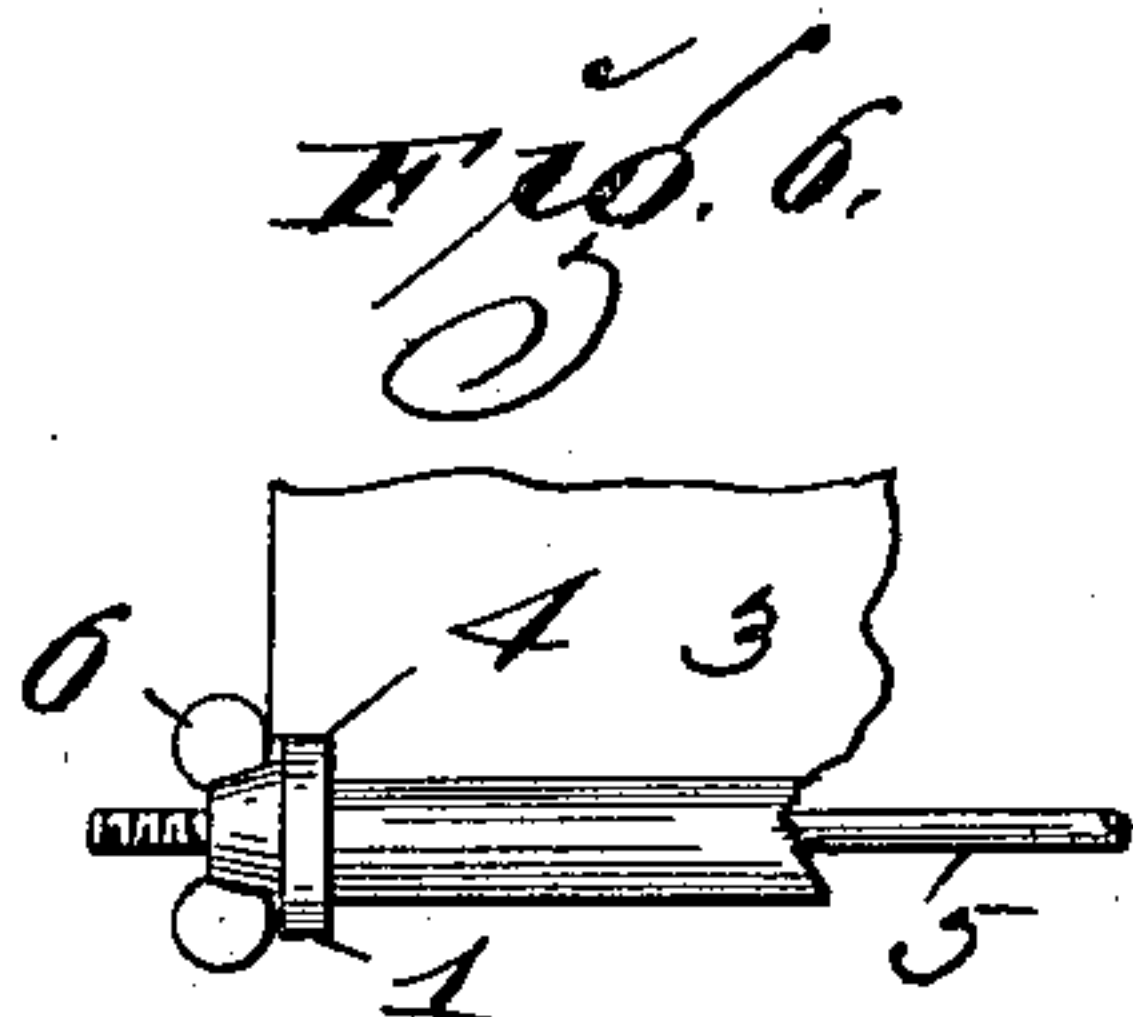
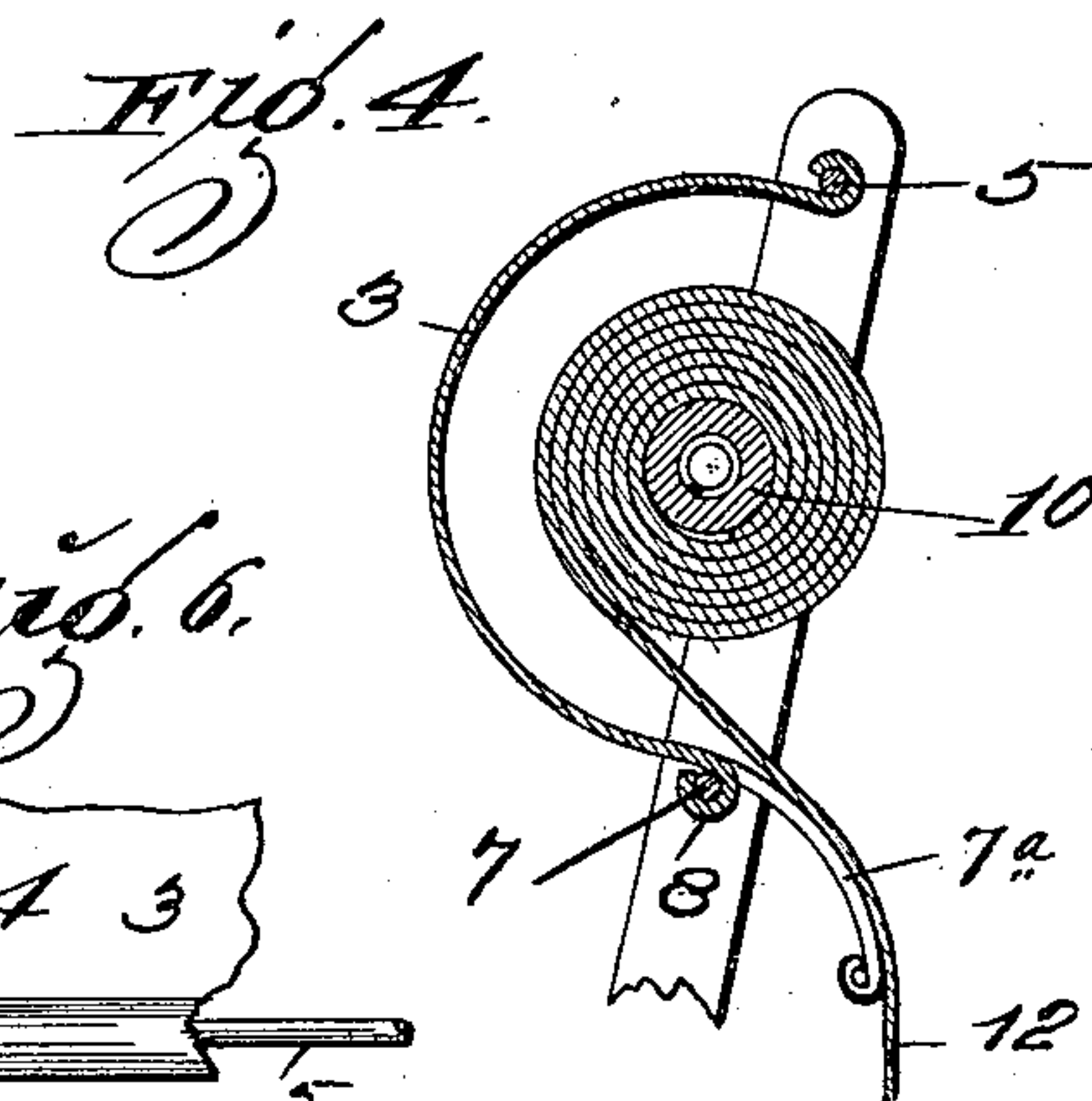
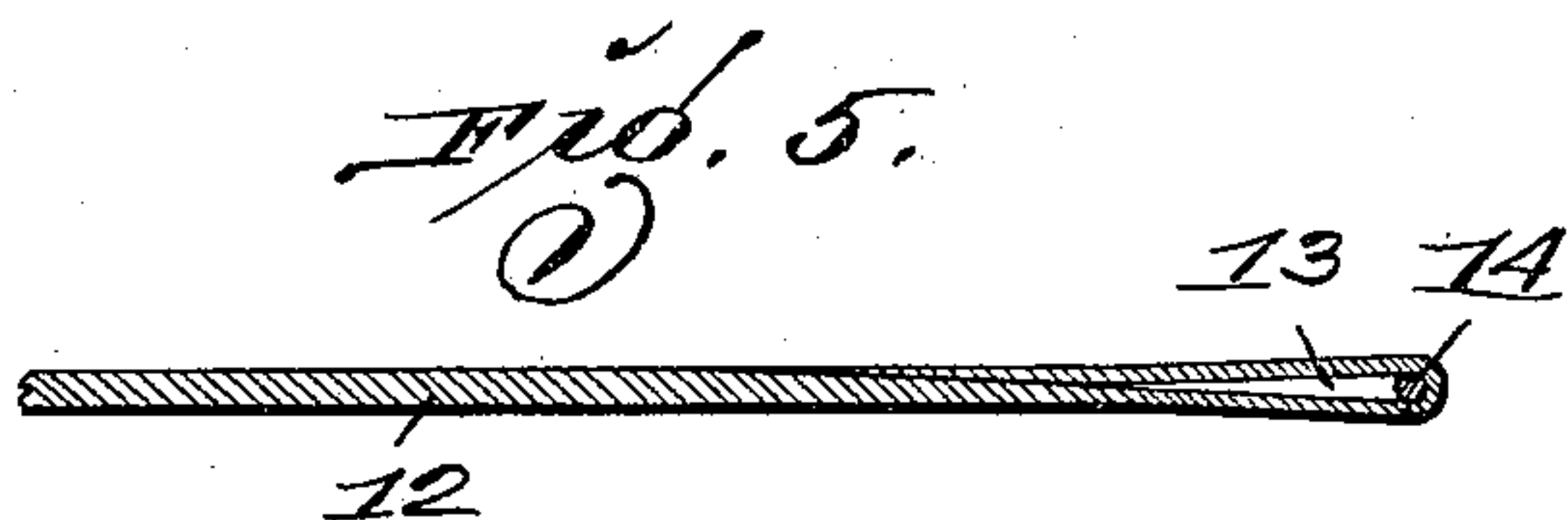
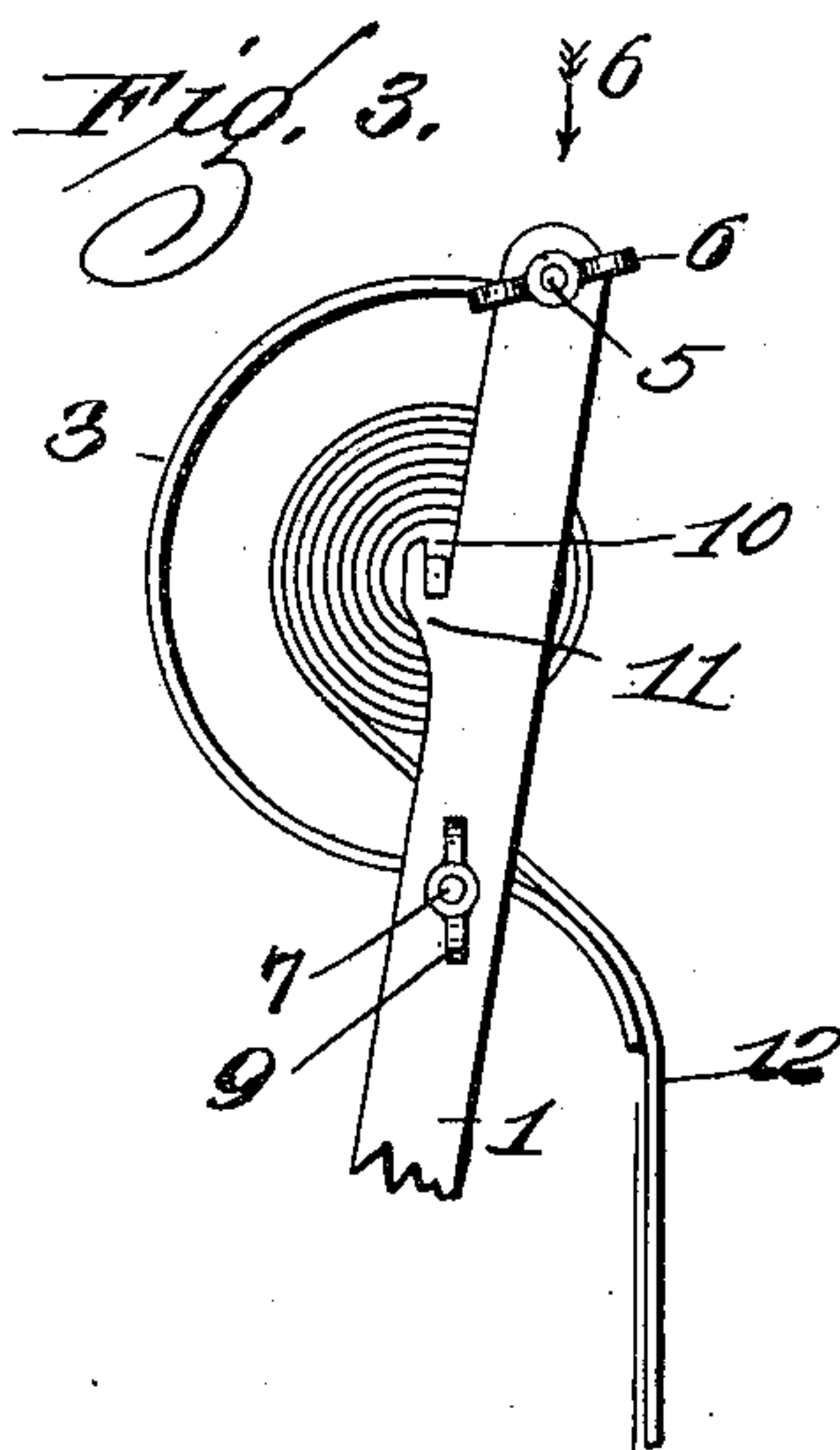
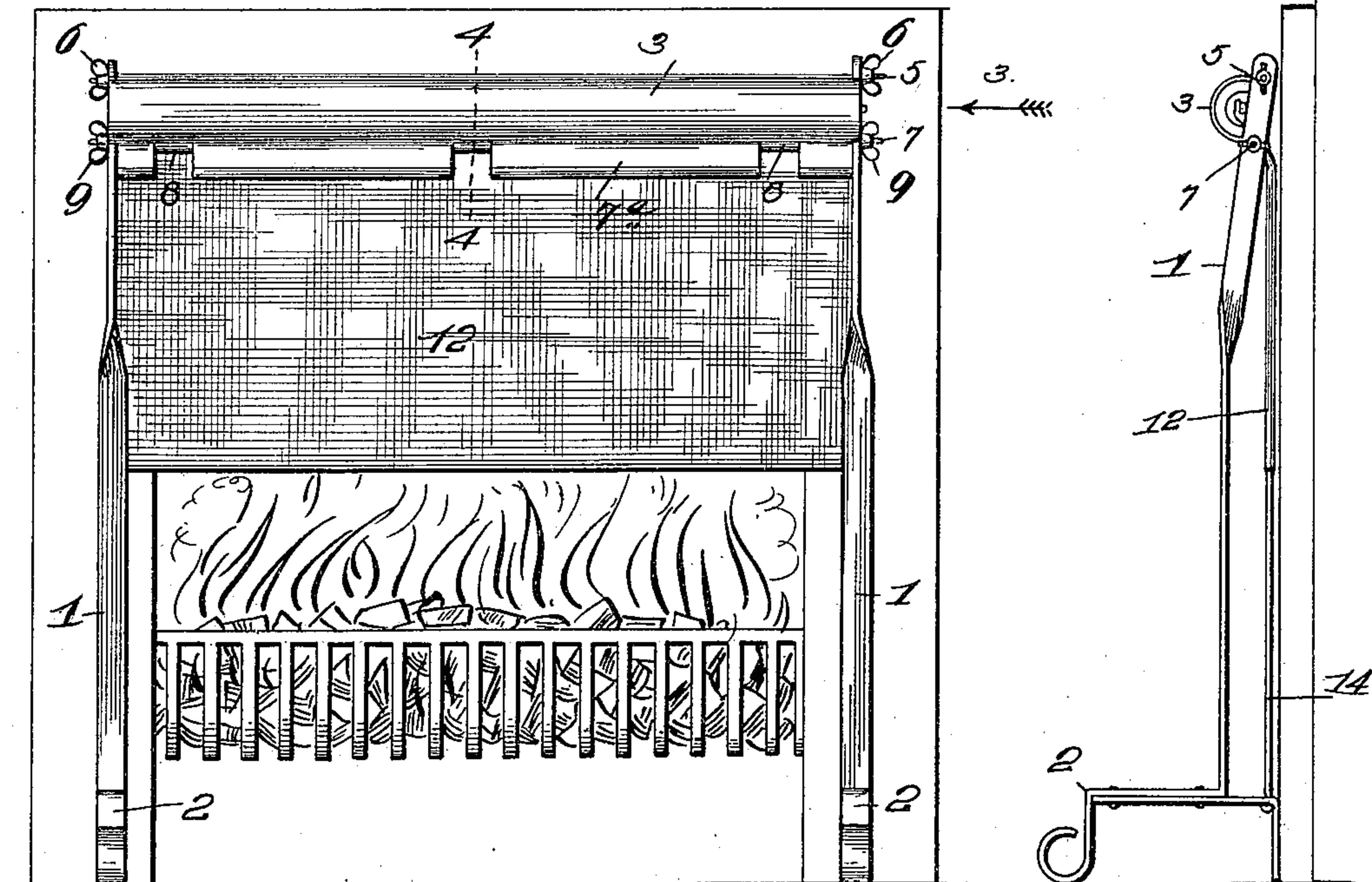
BLOWER.

(Application filed Sept. 6, 1898.)

(No Model.)

Fig. 1.

Fig. 2.



Attest
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UNITED STATES PATENT OFFICE.

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BLOWER.

SPECIFICATION forming part of Letters Patent No. 627,858, dated June 27, 1899.

Application filed September 6, 1898. Serial No. 690,384. (No model.)

To all whom it may concern:

Be it known that I, MARSHALL H. LITTELL, of the city of St. Louis, State of Missouri, have invented certain new and useful Improvements in Blowers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to blowers; and it consists of the novel construction, combination, and arrangement of parts hereinafter shown, described, and claimed.

Figure 1 is a front elevation of a grate, the same having my improved blower applied thereto. Fig. 2 is a side elevation of the blower seen in Fig. 1. Fig. 3 is an enlarged end elevation of the upper portion of the blower, said view being taken in the direction indicated by the arrow 3 in Fig. 4. Fig. 4 is an enlarged vertical sectional view taken approximately on the line 4 4 of Fig. 1. Fig. 5 is a transverse sectional view of the edge of the fireproof curtain made use of in carrying out my invention. Fig. 6 is a top plan view of one corner of the casing of my improved blower, said view being taken looking in the direction indicated by the arrow 6 in Fig. 3.

Referring by numerals to the accompanying drawings, 11 indicate suitable standards constructed of metallic straps or rods, the lower ends of which standards are provided with ornamental bases 2, that rest upon the floor or tiling immediately in front and to the sides of the fireplace-opening. Extending transversely between the upper ends of the standards 1 is a sheet-metal casing 3, the same being semicircular in cross-section, and the ends of said casing are notched, as indicated by 4, to receive the upper ends of the standards 1. The upper end of the semicircular casing 3 is bent around a horizontally-arranged rod 5, the ends of which project a slight distance beyond the ends of said casing 3 and are screw-threaded and pass through suitably-located apertures in the upper ends of the standards 1. Winged nuts 6 are located upon said screw-threaded ends outside of the standards 1. The lower end of the sheet-metal casing 3 is curved outwardly and downwardly, as indicated by 7^a, and extending transversely beneath said casing 3 is a rod 7, identical with the rod 5, the same being held in place by lips 8, that

are cut from the casing 3 and bent around said rod, and the ends of said rod are screw-threaded and pass through apertures formed in the standards 1 a short distance below the apertures through which the ends of the rod 5 pass, and the outer ends of said rods 7 receive winged nuts 9.

An ordinary spring-actuated curtain-roller 10 is located within the sheet-metal casing 3, the journals of said curtain-roller being seated in bearings 11, formed in the upper ends of the standards 1 half-way between the apertures through which the rods 5 and 7 pass, and wound upon said roller 10 is a curtain 12, of asbestos or like fireproof material. The edges of this curtain 12 are doubled back and secured so as to form the casings 13 for the vertically-arranged rods 14, the lower ends of which are secured to the bases 2 and said rods being extended upwardly to points adjacent the lower edge of the downwardly-turned portions 7^a of the casing 3. The casing 3 is located between the upper ends of the standards 1, and the winged nuts 6 and 9 are tightened upon the ends of the rods 5 and 7 until the entire frame is very rigid, after which the curtain-roller is positioned in the casing 3 between the upper ends of the standards 1, and the blower is now ready for use.

When in use, the blower is placed directly in front of the fireplace-opening and the curtain is moved up or down, as required to give the proper amount of draft to the fire within the grate. When said curtain is moved vertically, the casings formed at the edge thereof will travel upon the vertically-arranged rods 14, and by locating said rods 14 at the outer ends of the bases 2 the curtain will be in very close contact with the face of the mantle or border that surrounds the grate-opening.

By the use of my improved blower any draft desired for a grate may be obtained and the unsightly cumbersome sheet-metal blowers now in use are entirely done away with.

My improved blower presents a neat and finished appearance, may be readily moved from one fireplace to another, and may be readily taken apart and packed while being transported or in storage.

I claim—

1. In a blower for fireplaces, a pair of standards, a pair of rods connected to and extend-

ing between the upper ends of said standards, a pair of rods fixed to and extending upwardly from the bases of said standards, a semicircular sheet-metal casing fixed to the pair of rods
5 between the tops of the standards, a spring-actuated roller operating within said casing, and a fireproof curtain operating upon said roller, which curtain is provided with folded side edges to form casings for the vertically-
10 arranged rods, substantially as specified.

2. A blower for fireplaces, comprising a pair of standards 1, in the upper ends of which are formed suitably-located apertures, a bearing formed integral with each standard between
15 the apertures therein, a pair of vertically-arranged rods 14 extending upwardly from the bases of said standards, a pair of horizontally-arranged rods 5 and 7 having their ends passed

through apertures in the standards, winged nuts located upon the outer ends of said horizontally-arranged rods, a semicircular sheet-metal casing 3 detachably secured to said horizontally-arranged rods, a spring-actuated roller having its ends seated in the bearings in the upper ends of the standards, and a fire-
25 proof curtain 12 operating upon said roller, the side edges of which curtain are lapped over to form casings that engage upon the vertically-arranged rods, substantially as specified.

In testimony whereof I affix my signature 30 in presence of two witnesses.

MARSHALL H. LITTELL.

Witnesses:

M. P. SMITH,

MAUDE GRIFFIN.