

No. 80,093.

PATENTED JULY 21, 1868.

P. M. SHEA.
ATTACHMENT FOR LAMP CHIMNEYS.

Fig: 1.

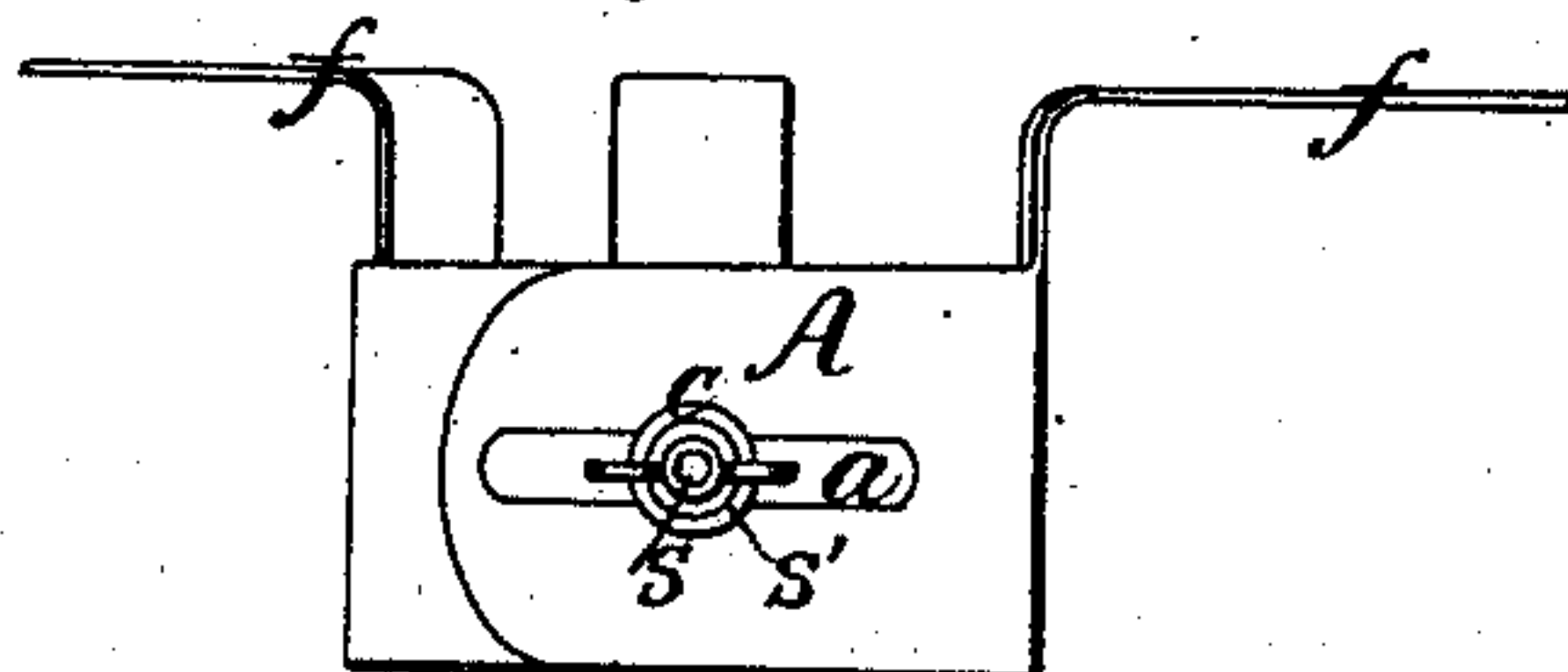


Fig: 2.

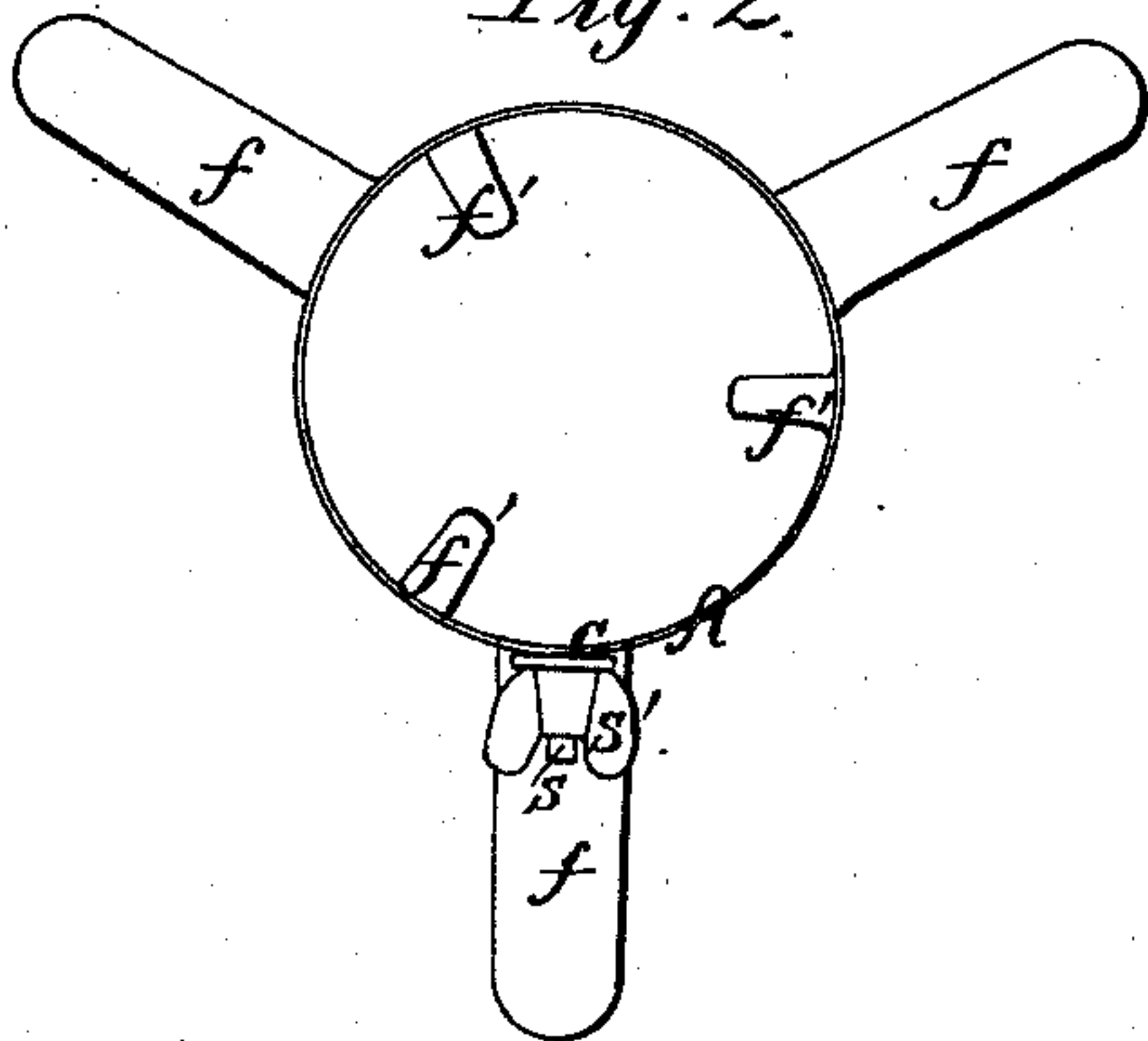


Fig: 3.

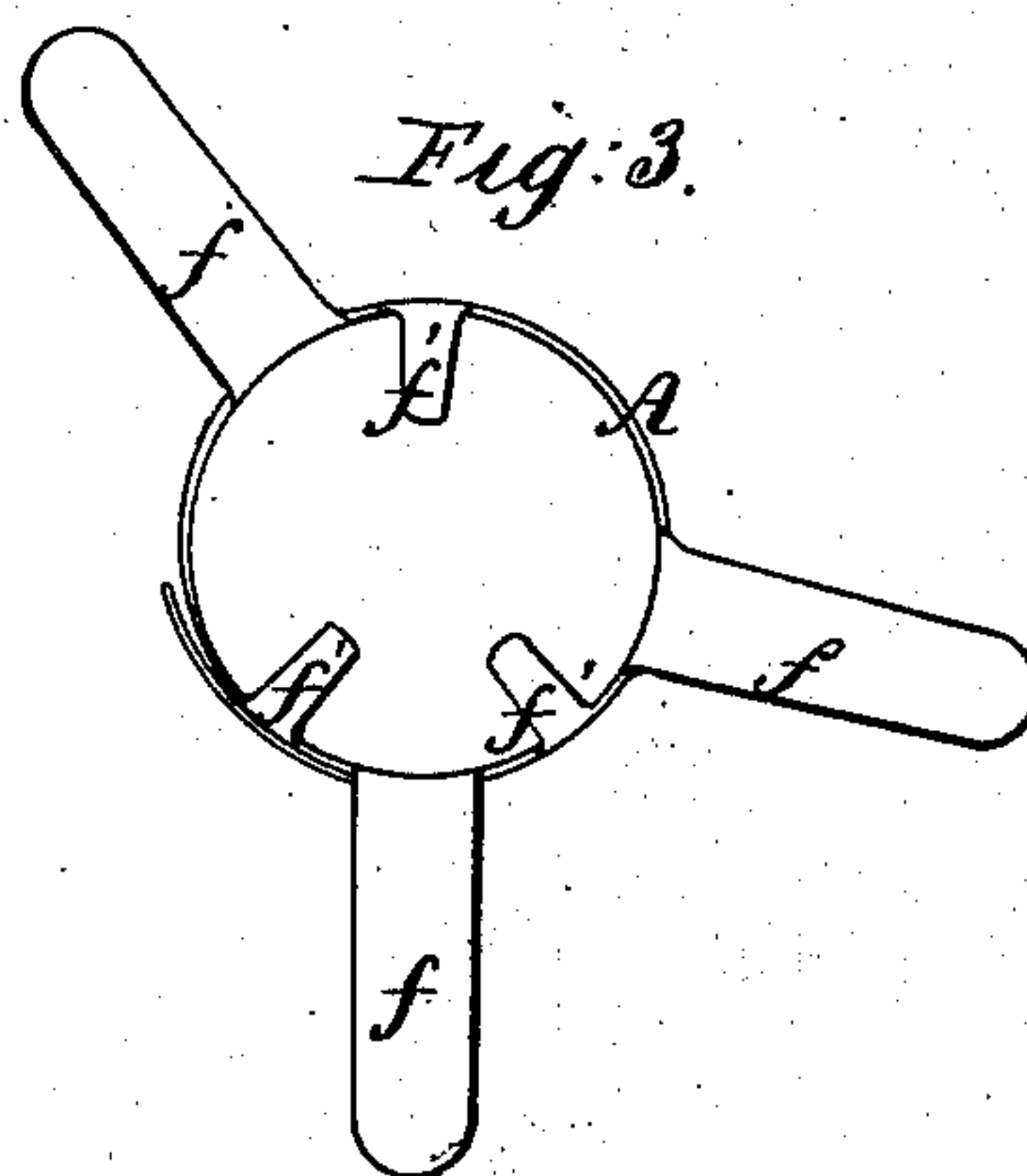


Fig: 4.

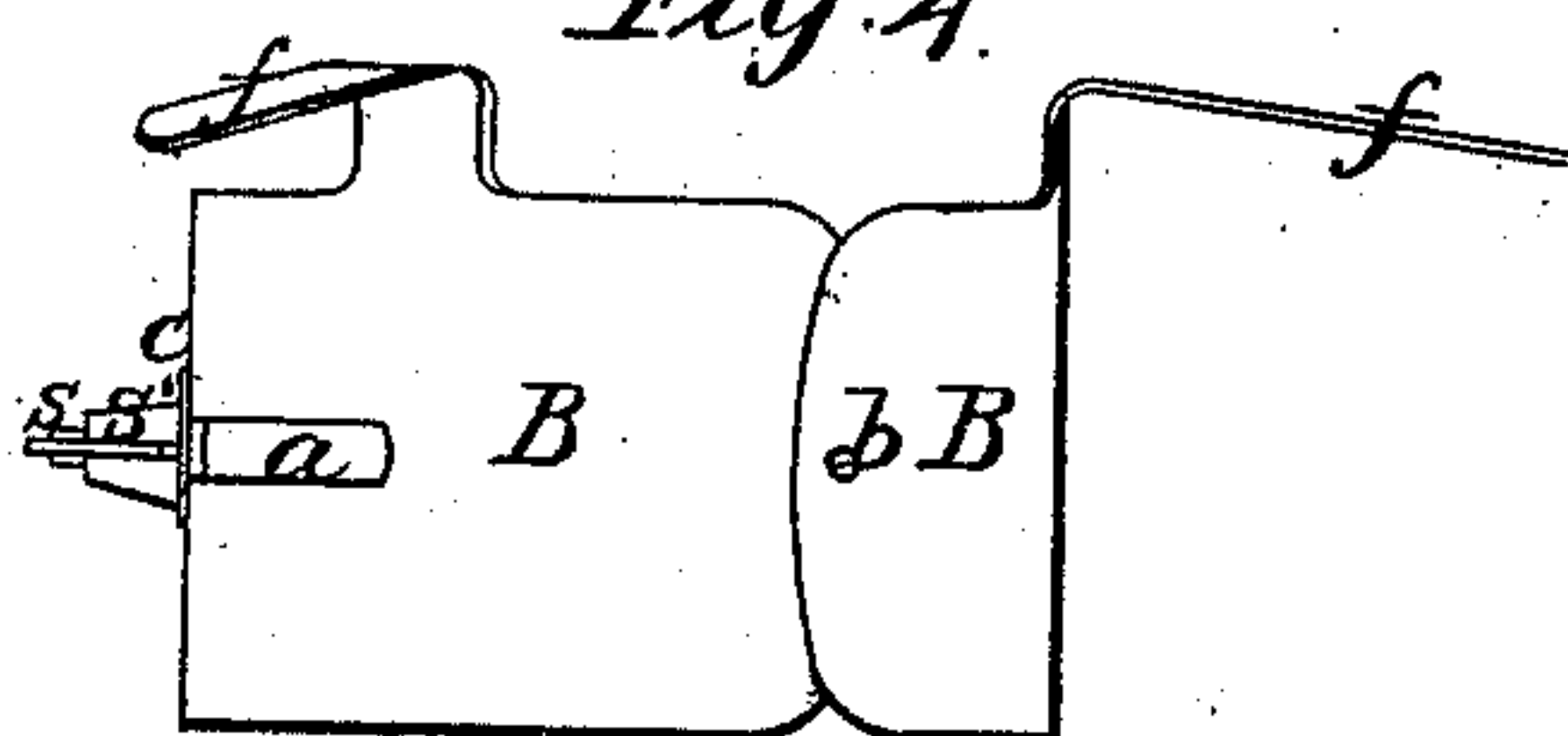


Fig: 5.

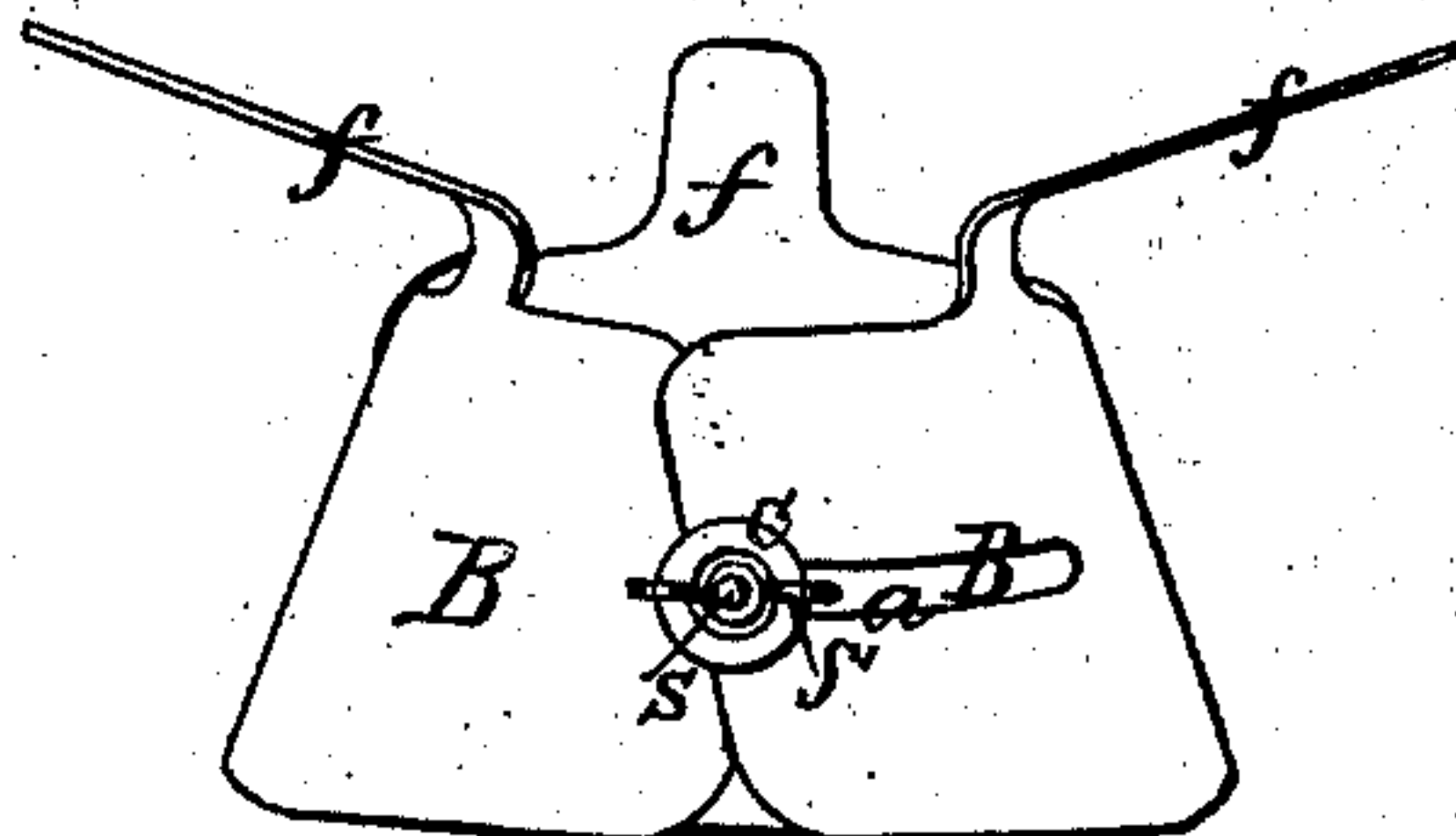
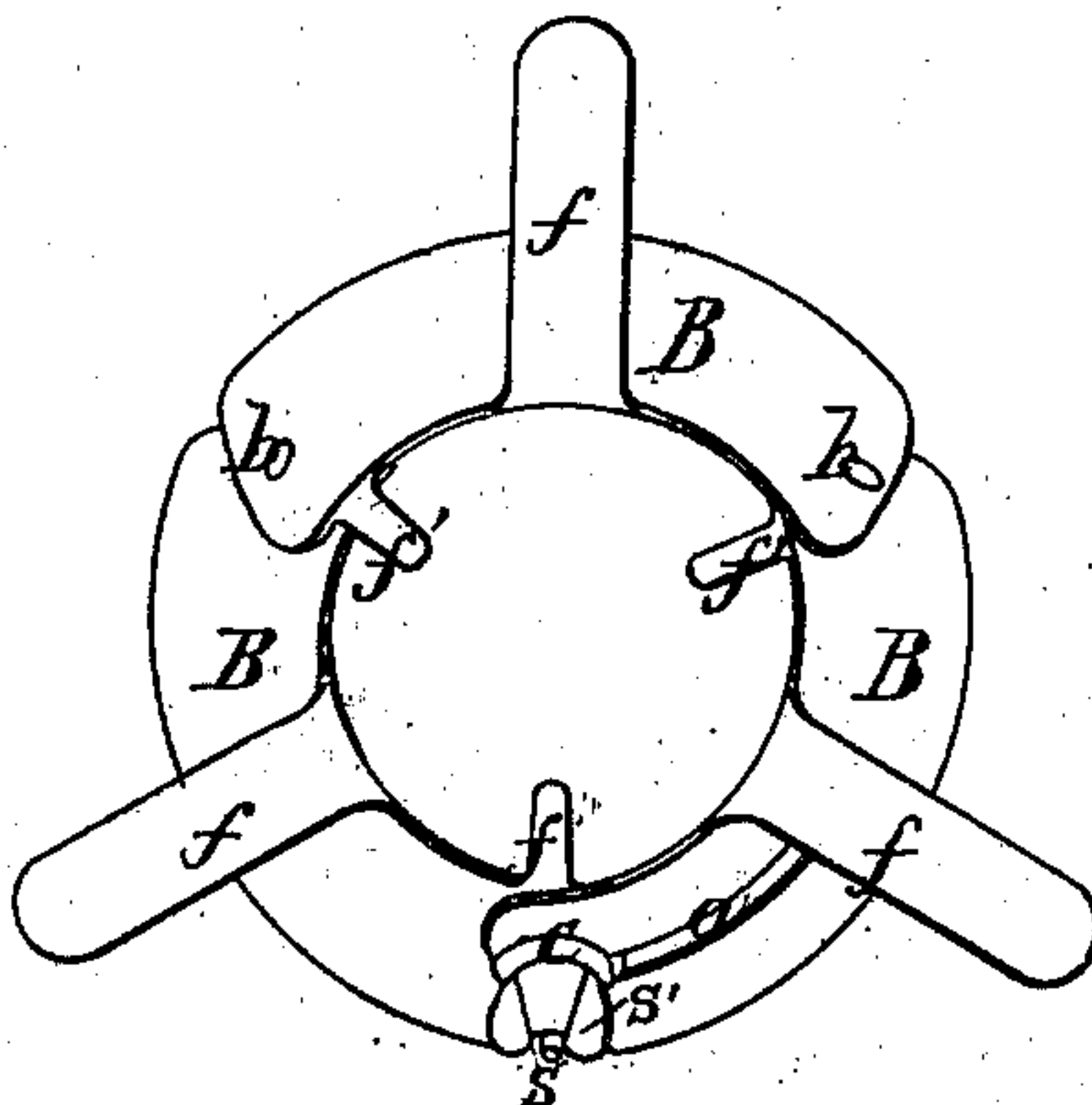


Fig: 6.



Witnesses;
M. J. Chase,
E. J. Sommer

Inventor;
Patrick M. Shea
by J. P. Brockland
his atty.

*The drawing in this patent
is not in print.*

United States Patent Office.

PATRICK M. SHEA, OF CHICOPEE, MASSACHUSETTS.

Letters Patent No. 80,093, dated July 21, 1868.

IMPROVEMENT IN ATTACHMENT FOR LAMP-CHIMNEYS.

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, PATRICK M. SHEA, of Chicopee, in the county of Hampden, and Commonwealth of Massachusetts, have invented a new and improved Attachment for the Tops of Lamp-Chimneys; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, and to the letters of reference marked thereon, in which—

Figure 1 is an elevation of one form of said attachment.

Figure 2 is a reverse plan of the same, the band being shown as extended to its largest area.

Figure 3 is a plan of the same, the band being shown as contracted, so as to fit a smaller chimney than when adjusted as in fig. 2.

Figure 4 is an elevation of a different form of the attachment, adjusted so as to be used upon a straight or nearly straight chimney.

Figure 5 is an elevation of the same, as applied upon a conical or tapering chimney; and

Figure 6 is a plan of the attachment when adjusted in the form shown in fig. 5.

My invention is designed to be applied to the tops of the chimneys of kerosene-lamps, gas-lights, &c., for the purpose of supporting above the chimney small vessels, the contents of which are to be heated.

The support thus furnished, and the vessel upon it, are so placed upon the chimney that the flame of the lamp is not checked or disturbed, while the large amount of heat which passes out through the top of the chimney is brought directly in contact with the vessel to be heated, and thus utilized.

The attachment consists of a circular band of thin sheet metal, the diameter of which can be varied by means of a slot in one end of the band, and a thumb-nut turning upon a stud set in the other end. Strips or fingers project outwardly from the upper edge of the band, as supports for the vessel to be heated, these fingers being carried vertically upward for a short distance before being bent outward at a right angle, thus allowing a free passage for the current of heated air and smoke outward from beneath the vessel.

Small fingers also extend radially inward a short distance, as rests, which set upon the upper edge of the chimney, and support the attachment. By means of the thumb-nut and slot in the band, the attachment can be adapted to fit snugly to chimneys of different sizes, so as to afford a firm support for the vessel placed upon it.

As some chimneys are made cylindrical, or but slightly tapering, while the upper ends of others, (as the sun-burner kerosene-lamps, so called,) are made with a considerable taper, I make the circular band either in a single piece for cylindrical chimneys, or in sections, jointed together, in which latter method of construction the attachment may be used upon a straight chimney, or adapted to those which are conical or convergent at the upper end.

My invention is designed mainly to be used in the place of the small spirit-lamps, nurse-lamps, and the like implements, which are in common use for many domestic and business purposes, and furnishes a cheap and simple attachment, by means of which any ordinary lamp having a chimney can be used as a heater.

The construction of my invention is as follows: In figs. 1, 2, and 3 is shown the attachment; as made with a continuous band, A, having the elongated slot *a* formed in one end, and the stud *s* inserted near the opposite end. A male-screw thread is cut upon this stud, upon which the thumb-nut *s'*, turns, a small washer, *c*, being placed beneath the face of the nut. The narrow strips *fff* are, by preference, formed of the same piece of sheet metal as the band, and are extended upward in the line of the sides of the band a short distance, and then bent at a right angle, as shown, and thus furnish a support for the vessel which is to be heated. The small fingers *f' f' f'* are also formed in one piece with the band, and bent so as to extend radially inward. The attachment will therefore be prevented from slipping down upon the chimney by *f' f' f'*, which will rest upon the top of the chimney. By means of the slot *a* and thumb-nut *s'*, the band may be expanded or contracted so as to encircle the top of the chimney closely, without clamping it so as to break the glass when the latter expands by heating.

In figs. 4, 5, and 6 is shown the attachment, as made with sections B B B, jointed together by the rivets *b b*. The elongated slot *a* is made in the end of one section, and the pin *s* and its thumb-nut *s'* applied to the third of the jointed sections, so that the adjustment of the area of the band is the same as already set forth. A finger, *f*, extending outward, and a smaller finger, *f'*, extending radially inward, are formed upon each one of the three sections B B B, and so placed that they will be about equidistant from one another. These fingers are bent precisely as before described, so as to allow a free circulation beneath the vessel, and to support the attachment upon the top of the chimney.

When the attachment is adjusted to fit a cylindrical chimney, as shown in fig. 4, the sections form a continuous band, similar in appearance and use to the entire band, seen in fig. 1; but to fit upon a chimney with a convergent top, the sections may be moved upon one another, so as to take a form corresponding with the tapering form of the given chimney, as shown in figs. 5 and 6.

If the chimney of the lamp or gas-light sets securely in its socket, it is evident that the attachment may be adjusted to the chimney so as to afford a firm support for any vessel of reasonable weight which may be placed thereon.

The number of the jointed sections B B B may be varied, but the use of three sections allows the three fingers to be kept nearly equidistant from one another better than if only two sections were used.

Having described my invention, what I claim as new therein, and desire to secure by Letters Patent, is—

1. The combination and arrangement of the continuous band A, slotted at *a*, and having the stud *s* and thumb-nut *s'*, fingers *f* extending outward, and small fingers *f'* extending radially inward, substantially as and for the purpose specified.

2. An attachment for the tops of lamp-chimneys, composed of two or more jointed sections B, arranged so as to be adjustable in diameter, and having projecting fingers *f*, and the small fingers *f'* extending radially inward, substantially as set forth.

In testimony whereof, I have hereunto set my hand, this 23d day of May, A. D. 1868.

PATRICK M. SHEA.

Witnesses:

J. P. BUCKLAND,

E. J. SOMMER.