(Model.)

E. L. MANSFIELD.

FLUE CLEANER.

No. 373,747. Patented Nov. 22, 1887.

Fig. 1.

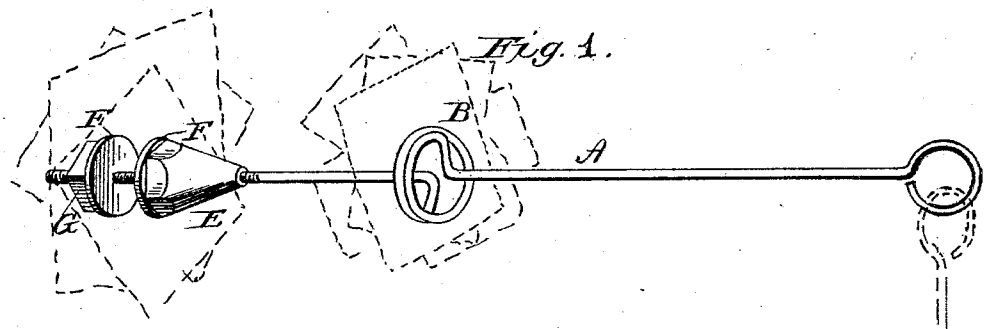
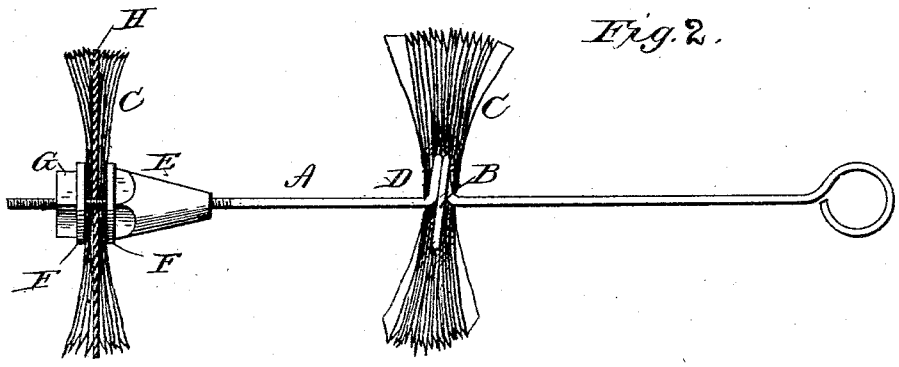


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

EDWIN LASELLE MANSFIELD, OF BOSTON, MASSACHUSETTS.

FLUE-CLEANER.

SPECIFICATION forming part of Letters Patent No. 373,747, dated November 22, 1887.

Application filed September 15, 1886. Serial No. 213,617. (Model.)

To all whom it may concern:

Be it known that I, EDWIN LASELLE MANSFIELD, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Flue-Cleaners; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved flue-cleaner rod adapted to receive two sets of cleaning material, which are shown in dotted line; and Fig. 2 is a view of the same with cleaning material attached and partly in section.

Like letters of reference indicate corresponding parts throughout the figures.

My invention has relation to flue-cleaners and instruments for like purposes; and it consists in the improved construction and combination of parts constituting the same, as will be hereinafter fully set forth and claimed.

In the accompanying drawings, A represents the cleaner-rod, at one end of which is formed an eye for the convenience of handling and for coupling extension-sections to said rod, as shown in dotted lines in Fig. 1. The other end of the rod is provided with a securer consisting of a conical nut, E, screwed upon the end of the rod, two washers, F, and a nut, G. The conical nut prevents the cleaner from catching upon the opposite end of a flue when drawing back the cleaner after a through-thrust. The intermediate portion of the rod is provided with a flat coil, B, whose center is the axis of the rod and whose plane is perpendicular thereto. Squares of cloth, C, are centered with the coil on each side thereof, and secured together and to the coil by sewing through and through, as seen at D. After attaching the cleaning material to the coil, the conical nut is screwed on, one washer placed against it, the cleaning material added, and the other washer and nut applied.

The squares of cleaning material may be of cloth, rubber, or leather, but preferably of cloth for most purposes, as in cleaning lamp-chimneys and the like; but in cleaning boiler-flues it is sometimes expedient to place a piece of rubber between the squares of cloth, as seen at H, which aids to stiffen the cleaner. The coil may even be used in cleaning flues without any sort of cleaning material attached thereto, in which case the coil would be made to correspond in diameter with the flues and would rub from the sides of said flues the accumulated soot and ashes, which could then be brushed out by a cloth cleaner.

By means of the extension-sections the same cleaner may be used for flues of various lengths.

Having thus fully described my invention, I claim—

1. A flue-cleaner consisting of a rod provided with a flat coil and having a securer at the end, consisting of a conical nut, two washers, and an ordinary nut, and squares of cloth attached at the sides of said flat coil and others secured between the washers.

2. The combination, with a flue-cleaner rod provided with a securer, of a piece of rubber and squares of cloth secured at each side of said piece of rubber.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

EDWIN LASELLE MANSFIELD.

Witnesses:

EVERETT KENT DEXTER,

JOHN WENTWORTH PORTER.