

(No Model.)

G. HARVEY.

APPARATUS FOR CLEANING CHIMNEYS.

No. 363,893.

Patented May 31, 1887.

Fig. 1.

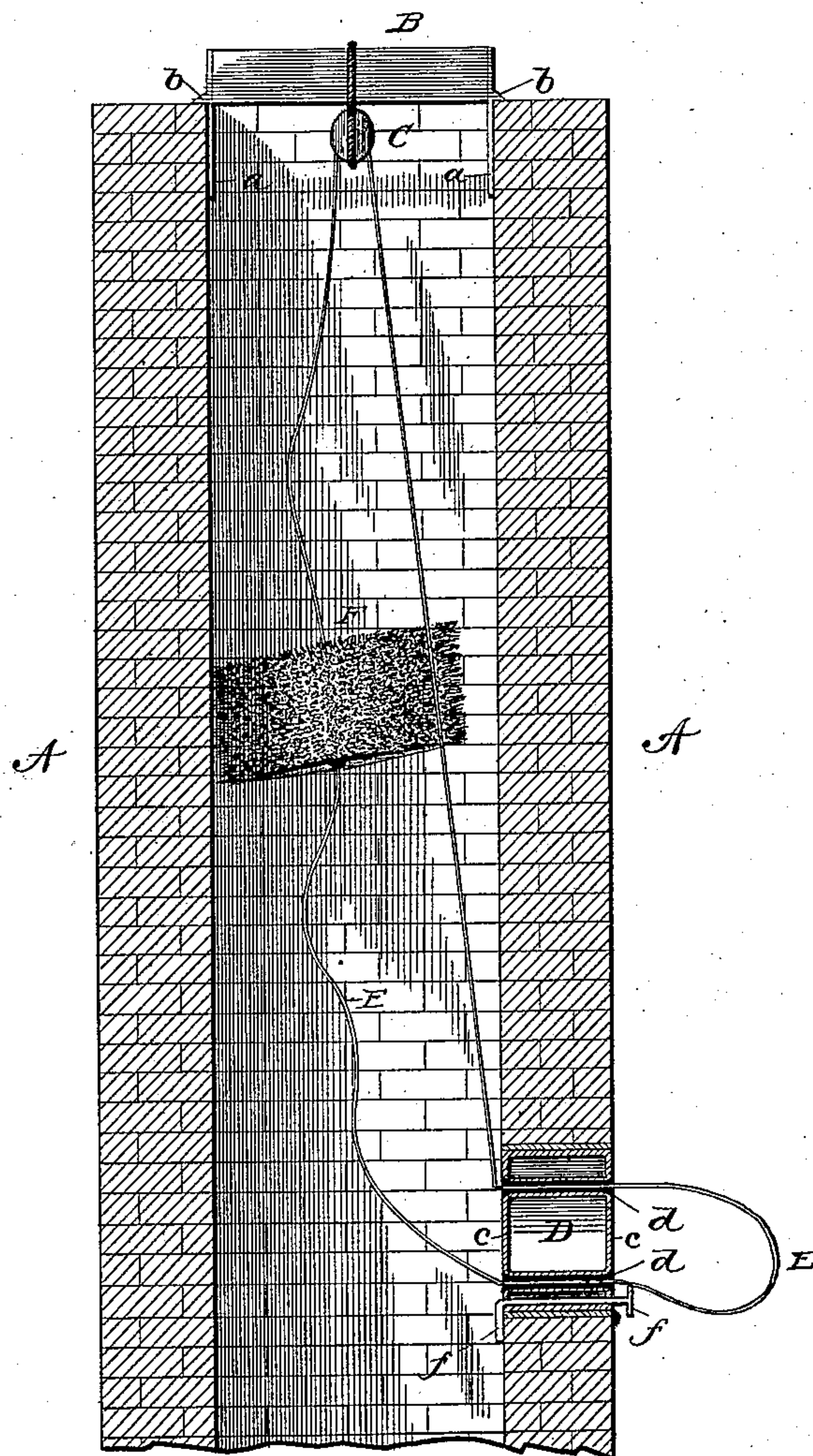
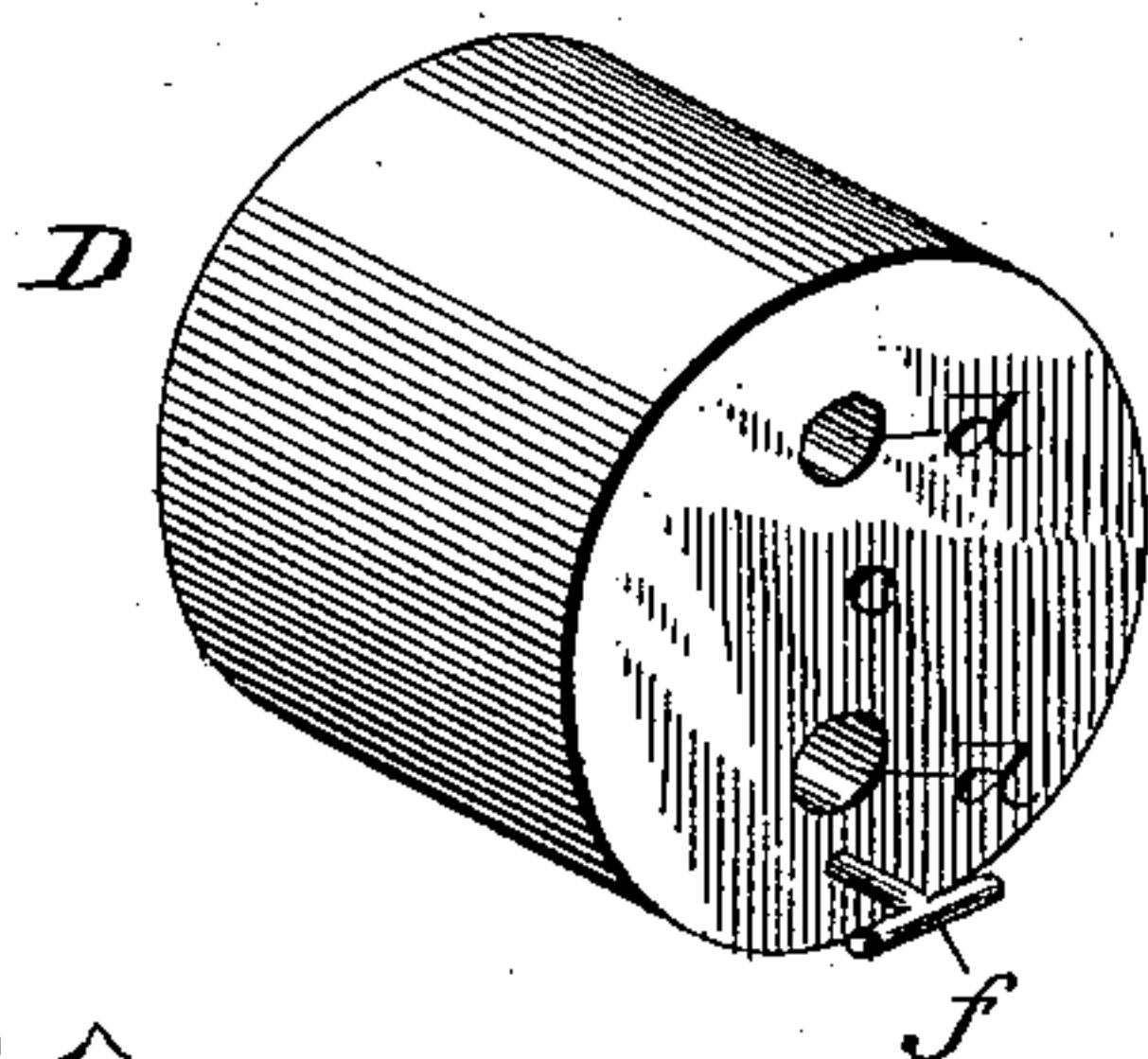


Fig. 2.



Witnesses:

W. W. Northrup,
Wm. J. Little,

Inventor:

George Harvey,
By his Attorney,
J. R. Little

UNITED STATES PATENT OFFICE.

GEORGE HARVEY, OF WINNIPEG, MANITOBA, CANADA.

APPARATUS FOR CLEANING CHIMNEYS.

SPECIFICATION forming part of Letters Patent No. 363,893, dated May 31, 1887.

Application filed June 3, 1886. Serial No. 204,045. (No model.)

To all whom it may concern:

Be it known that I, GEORGE HARVEY, a subject of the Queen of Great Britain, residing at Winnipeg, in the Province of Manitoba and Dominion of Canada, have invented certain new and useful Improvements in Apparatus for Cleaning Chimneys; 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.

My invention relates to apparatus for cleaning chimneys, the object of the invention being to provide devices for this purpose which shall be simple in their construction, strong and durable, and which may be readily and easily operated from the bottom of the flue.

With these ends in view the invention consists in the improved construction and combinations of parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a sectional view illustrating the application of my invention. Fig. 2 is a detail view of the thimble employed to fit the stove-pipe hole while the apparatus is being operated, as shown.

Corresponding parts in both the figures are denoted by the same letters of reference.

Referring to the drawings, A represents a portion of the flue. At the upper end of the flue is provided a cross-bar, B, preferably of iron, which is provided at its ends with downwardly-extending arms *a*, formed with shoulders *b*, said arms being placed within the flue, the shoulders holding said beam in place.

C represents a block or pulley, which is suitably swiveled to the under side of the beam B, at a point preferably about midway its ends.

D represents a thimble, which preferably consists of a hollow cylinder having closed ends, as shown at *c*. Openings are made in the said ends *c* of the cylinder; and passing through the cylinder and connecting the openings in the ends *c* are pipes or tubes *d*, which are preferably provided with flaring ends. Passing through the cylinder is an arm, *f*, which is bent at its inner end at right angles to its body.

E represents a wire, or wire cable or chain, which passes over the sheave in the block or pulley and through one pipe or tube, *d*, and back through the other pipe or tube.

F represents a brush, which preferably consists of a bunch or bunches of wires, or wooden splints, the free ends of the wire or cable E being secured to said brush.

The operation of my invention is as follows: The beam B, pulley C, and wire cable are permanently attached, as shown and described. When it is desired to clean a chimney, the stove-pipe is removed from its hole and one end of the cord drawn down and attached to the brush. The other end of the wire or cable is then passed through the tubes in the thimble and attached to the brush, after which the thimble is inserted in the stove-pipe hole and the arm *f* turned, causing its bent inner end to bear against the inner side of the flue and prevent the accidental detachment of the thimble. After the parts have been adjusted as described the brush is moved up and down the chimney by means of the wire or cable, thus scraping the sides of the flue and removing the soot. After the soot has been removed the thimble is detached from the hole and the brush removed and the cable allowed to remain in position.

The apparatus may also be used for cleaning chimneys other than those having stove-pipe holes, and without the thimble and tubes, and in this case only the cross-bar with pulley, the wire cable, and the brush would be employed.

Having thus described my invention, I claim—

The combination, in a chimney-cleaner, of a support at the top of the chimney, a thimble located in the wall of the chimney at the lower end and provided with two openings, a continuous cable passing through the openings in the thimble and over a pulley upon the support at the top of the chimney, and a brush located transversely in the chimney and secured to and carried by the cable, substantially as set forth.

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

GEORGE HARVEY.

Witnesses:

JOHN MERRICK BATEMAN,
JOHN GORDON MORGAN.