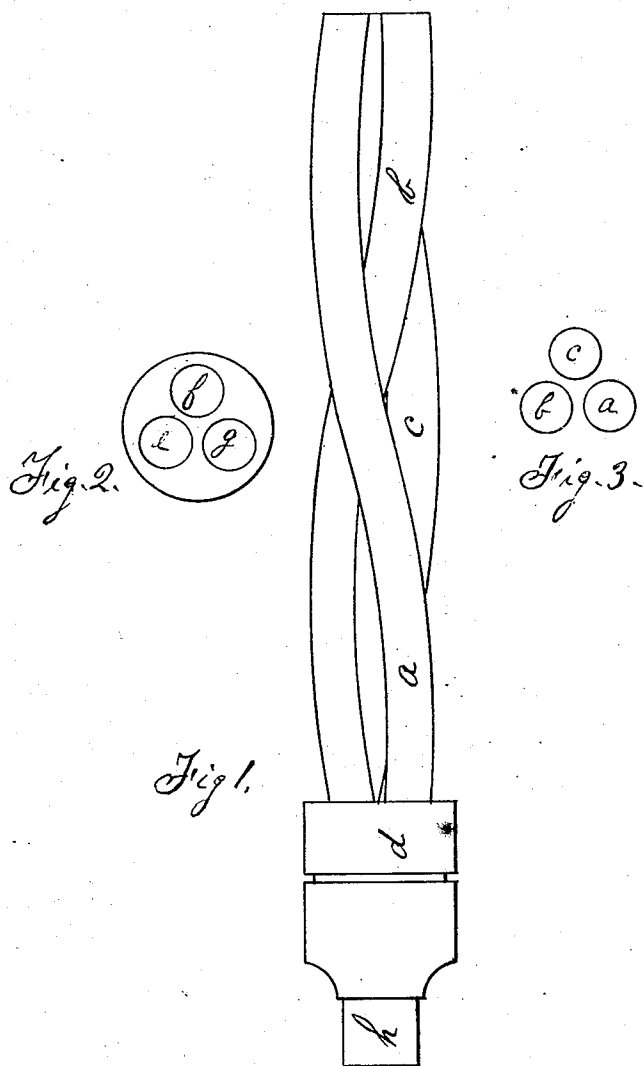


W. G. PIKE.
Flue-Cleaner.

No. 160,279.

Patented March 2, 1875.



Witnesses:
August Albrecht
Joseph F. Hagan.

Inventor:
Wm. G. Pike

UNITED STATES PATENT OFFICE.

WILLIAM G. PIKE, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN FLUE-CLEANERS.

Specification forming part of Letters Patent No. **160,279**, dated March 2, 1875; application filed November 16, 1874.

To all whom it may concern:

Be it known that I, WM. G. PIKE, of Philadelphia, Pennsylvania, have invented a Flue-Cleaner, of which the following is a specification:

My invention consists of a flue-cleaner, for the purpose of removing the dirt that may accumulate in the flues or tubes of steam-boilers by causing steam to pass through them in a spiral course, similar to that given to a rifle-ball by the grooves in the rifle-barrel, the construction and operation of which will be made plain by the detail description following.

In the drawing, Figure 1 is a side elevation of the device. Fig. 2 is a plan of the head. Fig. 3 is a plan of the tubes.

a b c, Figs. 1 and 3, are tubes, which are screwed into the head *d*, Figs. 1 and 2. *e f g*, Fig. 2, are orifices in the head *d*, into which the tubes *a b c* are screwed. *h*, Fig. 1 is a tube that connects the head *d* with the steam.

The tubes *a b c* are screwed into the head *d*,

and then twisted into the spiral form, as shown in Fig. 1.

The operation is as follows: The head *d* being connected to the steam-supply by the tube *h*, the ends of the tubes *a b c* are inserted into the flue or tube to be cleaned. The steam is then turned on. The tubes *a b c*, being twisted into a spiral form, cause the steam to pass through the flue or tube in a spiral course, thereby effectually removing the dirt or ashes.

In the drawing I have shown three tubes. It is not necessary to have that number, as the work may be done with one spiral tube; but I prefer three.

I claim—

A flue-cleaner composed of one or more tubes twisted into a spiral form, substantially as shown and described.

WM. G. PIKE.

Witnesses:

AUGUST ALBRECHT,
JOSEPH J. HAGAN.