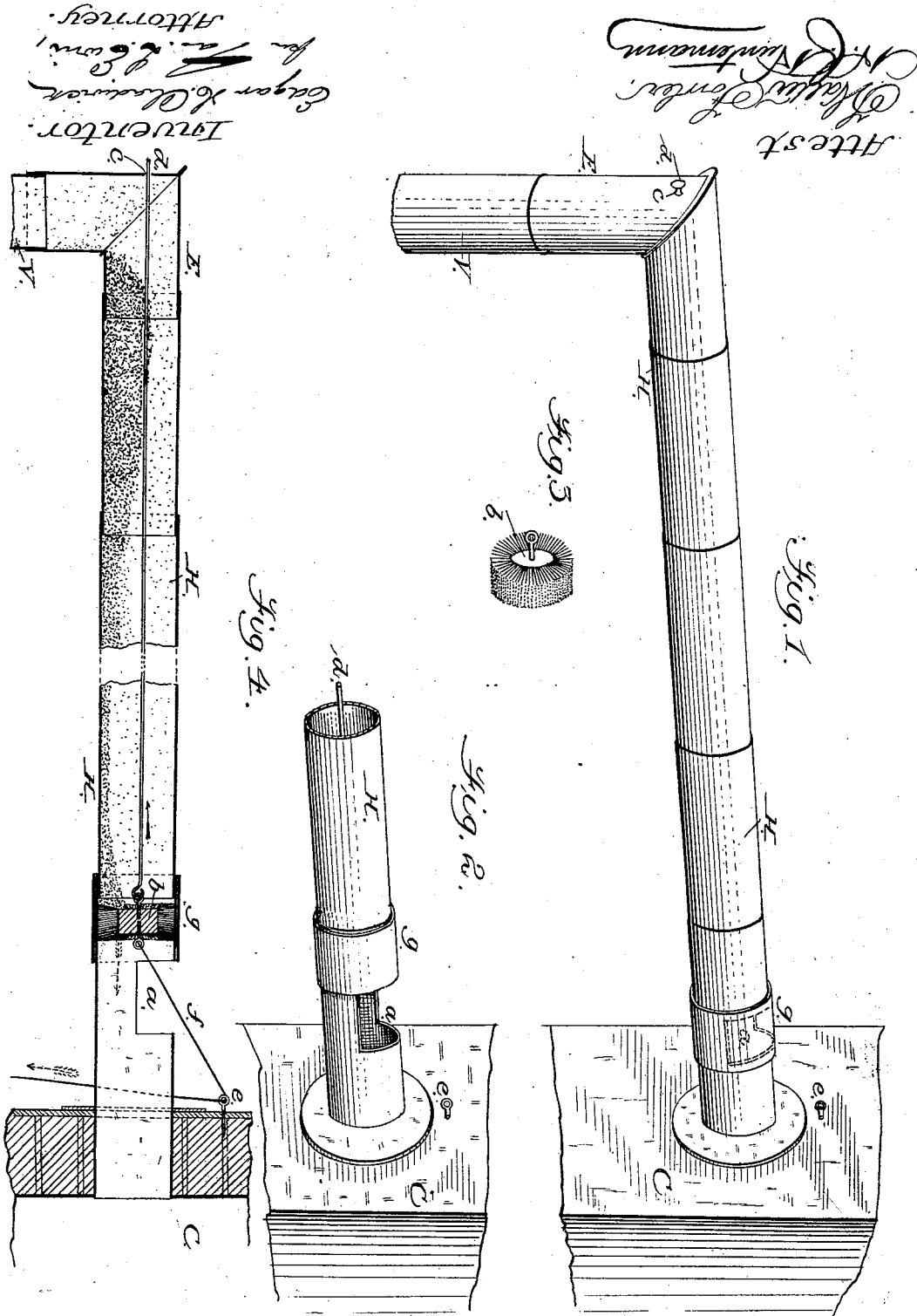


(No Model.)

No. 243,209.

E. H. CHADWICK.
Stove Pipe Cleaner.
Patented June 21, 1881.



Attest

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UNITED STATES PATENT OFFICE.

EDGAR H. CHADWICK, OF LOUISVILLE, KENTUCKY.

STOVE-PIPE CLEANER.

SPECIFICATION forming part of Letters Patent No. 243,209, dated June 21, 1881.

Application filed April 22, 1881. (No model.)

To all whom it may concern:

Be it known that I, EDGAR H. CHADWICK, a citizen of the United States, residing at Louisville, in the State of Kentucky, have invented a new and useful Improvement in Stove-Pipe Cleaners, of which the following is a specification.

This invention relates to means for cleaning stove-pipes without taking them down or apart.

In the western and southern parts of the United States, where soft coal and wood are used as fuel in residences and stores, the rapid accumulation of soot in the horizontal sections of stove-pipes causes considerable damage to furniture and goods, besides serious annoyance and trouble, owing to the escape of the dense smoke into the room when the pipe is foul, and the interruption, work, and dirt involved in cleaning the pipe as frequently as is required by taking it down and then removing the soot, which is the ordinary method. Various mechanical contrivances have been proposed for removing the soot without taking down the pipe; but, so far as I am aware, none of them are in common or general use.

My invention consists in a novel combination of parts in a stove-pipe, adapting it to be cleaned by drawing a brush or scraper through its horizontal section, so as to discharge the soot therefrom through the connecting vertical pipe into the stove without the escape of soot or dust into the room, and with great rapidity and ease.

Figures 1 and 2 of the accompanying drawings are perspective views of a stove-pipe illustrating this invention; Fig. 3 is a perspective view of a brush such as I employ; and Fig. 4 is a longitudinal section of the pipe and cleaner, illustrating the operation of the latter.

V represents a vertical section, E an elbow of any form, and H a horizontal section of a stove-pipe, and C a chimney-flue, into which the latter discharges the smoke from a stove for burning soft coal or wood or anthracite coal.

To provide for removing accumulations of soot from the horizontal section H, I construct the same, or a length thereof near the chim-

ney end, with an aperture, *a*, in its top of sufficient size to admit a cylindrical brush, *b*, or a scraper adapted to fit the interior of said horizontal section tightly enough for effective work. The elbow E is constructed with a small hole, *e*, in line with the horizontal section H, and a wire, *d*, extending through this hole is provided at its outer end with a knob and at its inner end with a hook, the latter being adapted to interlock with an eye on the front of the brush or scraper at the aperture *a*. The brush or scraper is inserted and hooked to the wire, and by means of the latter is drawn through the horizontal section H into the elbow E, carrying the soot before it, as illustrated by Fig. 4, and depositing the same through the vertical section V into the stove. A horizontal pipe-section of any length may thus be readily and quickly cleaned, and one or more curved bends or crooks will not interfere with this.

For drawing back the brush or scraper to the aperture *a*, the face of the chimney C, immediately above the stove-pipe hole, is provided with an eye-screw, *e*, and a cord, *f*, is passed through this and attached to an eye on the back of the brush or scraper. By pulling on the cord *f* the brush or scraper is readily drawn back, as indicated by dotted arrows in Fig. 4. When it appears in the aperture *a* the brush or scraper is quickly unhooked from the wire *d* and withdrawn. The wire alone remains in the pipe, offering no obstruction to the draft.

For closing the aperture *a*, a sleeve, *g*, is fitted to the pierced length of the pipe H, so as to slide thereon, and when the pipe is closed thereby, as shown in Fig. 2, the interior of the pipe, as well as its exterior, is smooth, and any escape of smoke or dust through the aperture is effectually prevented.

The brush or scraper may be of any suitable kind, and one or more longitudinal apertures may be provided therein for the passage of smoke.

A chain or wire cord may be substituted for the wire *d*, and any preferred equivalents may be substituted for the knob and hook and eye at its respective extremities.

A small pulley or sheave may take the place of the eye-screw *e*, or it may be wholly omitted,

and a rotary sleeve or hinged door may be substituted for the sliding sleeve *g*.

5 The stove-pipe, apart from its provision with the apertures *a* and *c* and with the sleeve *g* or its equivalent, may be of any approved construction provided the interior of its horizontal section is substantially smooth and of uniform diameter.

10 Having thus described my said invention, I claim as new and desire to protect by Letters Patent—

The combination, in a stove-pipe, of a horizontal section of pipe provided outside of the

chimney with an aperture, *a*, providing for the insertion and withdrawal of a brush or scraper, 15 and with means for closing said aperture, an elbow provided with a hole, *c*, and an inclosed wire extending through said hole *c* for drawing said brush or scraper through said horizontal section of pipe to clean the latter, substantially as herein specified. 20

EDGAR H. CHADWICK.

Witnesses:

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