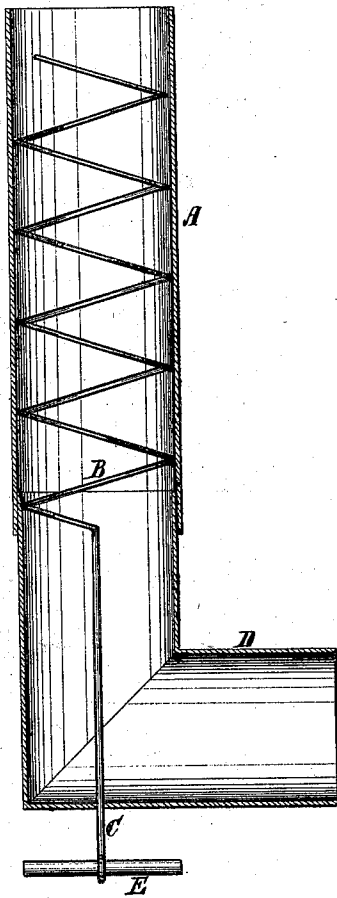


D. Sanford,

Fire Cleaner.

No. 112,500.

Patented Mar. 7, 1871.



Witnesses:

A. Beyneinendorf.
L. J. Mabee

Inventor:

D. Sanford

PER

Mmmf

Attorneys.

United States Patent Office.

DAVID SANFORD, OF ASHTON, ILLINOIS.

Letters Patent No. 112,500, dated March 7, 1871.

IMPROVEMENT IN STOVE-PIPE CLEANERS.

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, DAVID SANFORD, of Ashton, in the county of Lee and State of Illinois, have invented a new and useful Improvement in Stove-pipe and Flue-Cleaner; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to a new and useful improvement in mode of cleaning stove-pipes and flues, and consists in a rod bent in a spiral form throughout a portion of its length, and with the other portion straight, as will be hereinafter more fully described.

In the accompanying drawing the figure represents a longitudinal central section of a stove-pipe with my improved cleaner therein.

A represents the pipe, and

B the cleaner.

The wire or rod C is bent so as to form a spiral of the size of the inner diameter of the stove-pipe. The straight portion passes through the elbow D centrally with the pipe, as seen in the drawing, or otherwise, with a handle, E, on the protruding end.

A cleaner of this description should be made with a spiral portion and shank, of such length that a longitudinal movement back and forth, or a rotating, will loosen the soot from the pipe so that it will fall into, or may be gathered to, an elbow, where it may be readily removed, or so that, when loosened, it will be carried off by the draught.

The cleaner may be permanently connected with the straight sections of a stove-pipe or flue when the latter is in use, so that the pipe or flue may be cleaned and a good draught preserved; or it may be used in either long or short sections of pipe for thoroughly cleaning them before putting up, or when the pipe is taken down for cleaning.

For furnace or other round flues the cleaner is quite as well adapted as for stove-pipe. When the soot is once loosened from the pipe or flue it will, if of recent formation, be carried off by the draught. If the soot has been allowed to remain until it has become hard or compact it may, when loosened, be removed as before described.

The cleaner is operated either by a longitudinal or rotary movement within the pipe or flue. The cleaner should be made to fit the pipe or flue as closely as will admit of a free movement in either direction.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

A single round metal rod, C, having a spiral coil, B, in contact with the inner surface of the pipe A, and susceptible of being moved up and down therein, for the purpose specified.

DAVID SANFORD.

Witnesses:

J. W. OLLER,

N. W. HITCHCOCK.