

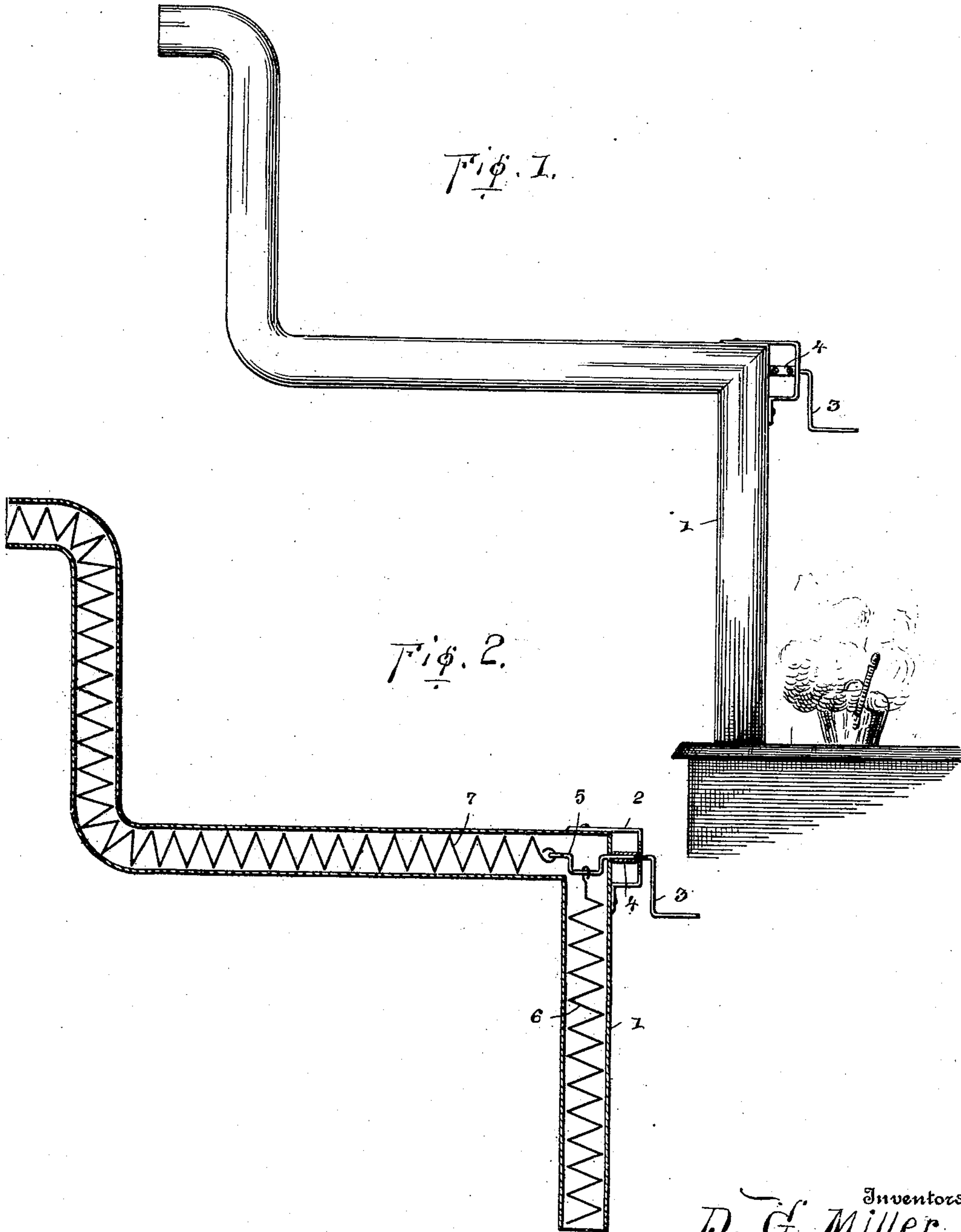
No. 685,217.

Patented Oct. 22, 1901.

D. G. MILLER & G. N. BARNES.  
FLUE OR STOVEPIPE CLEANER.

(Application filed Mar. 23, 1901.)

(No Model.)



Witnesses  
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# UNITED STATES PATENT OFFICE.

DANIEL G. MILLER AND GEORGE N. BARNES, OF DIXON, ILLINOIS.

## FLUE OR STOVEPIPE CLEANER.

SPECIFICATION forming part of Letters Patent No. 685,217, dated October 22, 1901.

Application filed March 23, 1901. Serial No. 52,593. (No model.)

*To all whom it may concern:*

Be it known that we, DANIEL G. MILLER and GEORGE N. BARNES, citizens of the United States, residing at Dixon, in the county of Lee and State of Illinois, have invented new and useful Improvements in Flue or Stovepipe Cleaners, of which the following is a specification.

This invention relates to new and useful improvements in flue and stovepipe cleaners; and its primary object is to provide a device of simple and durable construction which is easily operated, effective, and which may be employed in either straight or crooked pipes.

With these and other objects in view the invention consists in the novel construction and combination of parts hereinafter more fully described and claimed and illustrated in the accompanying drawings, showing the preferred form of our invention, in which—

Figure 1 is an elevation of a stovepipe containing our improved cleaner, and Fig. 2 is a section therethrough.

Referring to the drawings by numerals of reference, 1 is a pipe of any suitable form, to the outer face of which is secured a bracket 2. This bracket is preferably arranged at the top of one of the upright portions of the pipe 1 and serves as a bearing for a crank 3, having a socket 4 in the inner end thereof, which receives the end of the crank-shaft 5, bearing within the pipe 1 and extending across the upright portion thereof. A coiled wire 6 is loosely secured to the crank of the shaft 5 and extends longitudinally of the upright portion of the pipe 1. A coiled spring 7 is secured to the inner end of the shaft 5 and extends through the elbow 1<sup>a</sup> of the pipe 1.

When it is desired to clean the pipes, the crank 3 is revolved. This will cause the wire 6 to reciprocate within the pipe and at the

same time will revolve the spring-coil 7. This coil will loosen the soot in the pipe and serves as a conveyer whereby it is conducted to the outlet. It will thus be seen that we not only provide an effective cleaner which scrapes the soot from the surfaces of the pipe, but also a double-acting conveyer, the coil 7 being a revolving spiral conveyer and the coil 6 a vertically-reciprocating spiral conveyer, to which the revolving conveyer delivers.

In the foregoing description we have shown the preferred form of our invention; but we do not limit ourselves thereto, as we are aware that modifications may be made therein without departing from the spirit or sacrificing any of the advantages thereof, and we therefore reserve the right to make all such changes as fairly fall within the scope of this invention.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The combination with a stovepipe comprising a vertical section and an elbow-section of a cleaner comprising a revoluble coil arranged within the elbow-section, and a reciprocating coil within the vertical section of the pipe, and a crank-shaft to which both of said coils are attached whereby the revoluble coil serves as a conveyer to deliver to the reciprocating coil, the latter serving to clean the vertical section of the pipe and discharge the soot into the stove.

In testimony whereof we affix our signatures in presence of two witnesses.

DANIEL G. MILLER.  
GEORGE N. BARNES.

Witnesses:

JACOB S. HILL,  
JOHN PENROSE.