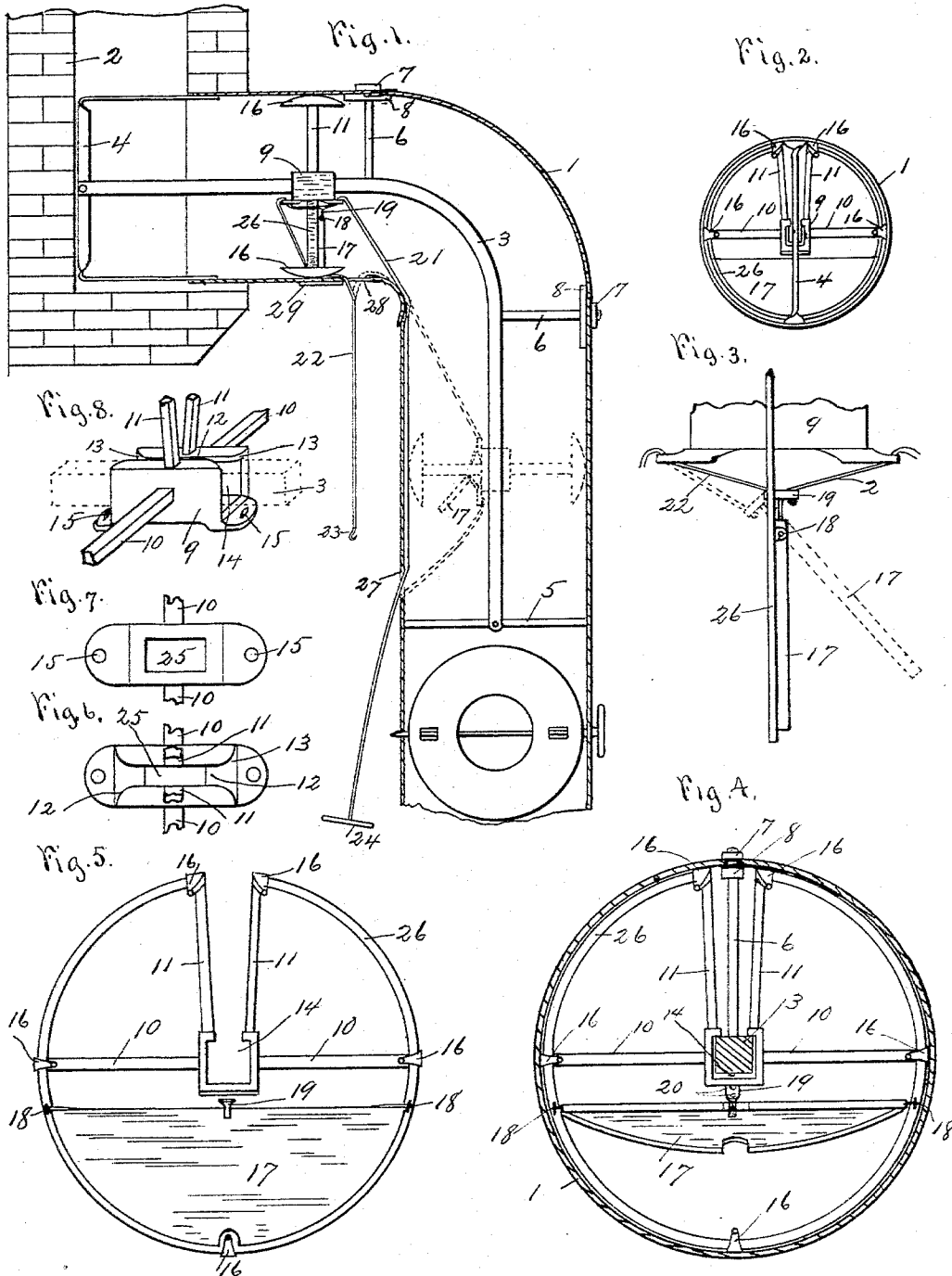


(No Model.)

W. L. GERARD.
STOVEPIPE CLEANER.

No. 564,988.

Patented Aug. 4, 1896.



Witnesses
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UNITED STATES PATENT OFFICE.

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STOVEPIPE-CLEANER.

SPECIFICATION forming part of Letters Patent No. 564,988, dated August 4, 1896.

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To all whom it may concern:

Be it known that I, WILLIAM L. GERARD, a citizen of the United States of America, residing at Burlington, in the county of Coffey and State of Kansas, have invented certain new and useful Improvements in Stovepipe-Cleaners, of which the following is a specification, reference being had therein to the accompanying drawings, and the figures of reference thereon, forming a part of this specification, in which—

Figure 1 is a sectional view of a stovepipe, showing my improved pipe-cleaner. Fig. 2 is an end view of a stovepipe at the end entering the chimney, and my improved pipe-cleaner. Fig. 3 is a detail showing how the scraper is raised and lowered. Fig. 4 is a cross-sectional view of a stovepipe with my improved pipe-cleaner, showing the scraper raised as it would appear when it is being drawn up in the stovepipe, also an end view of the shaft or track on which said cleaner runs. Fig. 5 is a side view of the pipe-cleaner with the scraper down, as when in use. Fig. 6 is a top plan of the hub of said cleaner with the arms broken off. Fig. 7 is a bottom plan of the same. Fig. 8 is a perspective view of the same, showing the track in dotted lines.

This invention relates to certain improvements in stovepipe-cleaners; and it consists of a track or shaft running lengthwise in a stovepipe and secured thereto, and a scraper adapted to ride on said track for scraping the soot loose from the pipe, so it will drop down into the stove, when it can be removed; and the object of this invention is to provide a means of cleaning a stovepipe along the horizontal and perpendicular without taking said pipe down.

Referring to the drawings, 1 represents a stovepipe.

2 is a chimney.

3 represents a track or shaft made of square iron secured in said pipe by the brace 4 at one end and the brace 5 at the opposite end, with the intermediate arms 6. Said rods 6 are held from shoving out or in the pipe by the nuts 7 and 8. Said brace 4 is secured to the inner end of the stovepipe, extending to

the rear of the flue-hole, for the purpose of allowing the scraper to be shoved back out of the stovepipe, where it is to remain while out of use and where it will not obstruct the draft of the stovepipe and chimney.

9 represents a hub or runner for running over the track 3, carrying the scraper. 10 represents arms leading out from the sides of said hub to the rim 26 of the scraper. 11 represents arms leading out from the top of said hub to the rim 26, leaving an opening in the rim 26, as shown in Fig. 5, to allow the track-supporting arms 6 to pass between the said arms 11 as the scraper is passing from one end of said track 3 to the other. 12 represents an opening lengthwise through the top of said hub. 13 represents the opening 12, beveled at either end to prevent the hub from catching on said arms 6 if said hub should not run perfectly true on said track. 14 represents the opening through said hub, which is made somewhat larger than the track, so as to allow the hub to pass over the turns in said track.

15 represents holes in ears in either end of the hub for passing the chains 21 and 22 through.

16 represents runners or guides secured to the periphery of the rim 26.

17 represents a scraper pivotally hung to the rim 26 at 18 and is for the purpose of scraping the soot from the pipe as it is pulled down. Said scraper 17 is provided with a short arm secured to said scraper, as shown in Figs. 3, 4, and 5. Said arm is provided with the holes 20, in which said chains 21 and 22 are secured, as shown in Fig. 3. When said scraper is pulled down by the chain 21, the said lid will be held snug against the rim of said wheel. When said scraper is being pulled up by the chain 22, as shown by the dotted lines in Figs. 1 and 3, said chain will raise said lid from the rim of said scraper, so that it will not carry any of the soot up into the flue.

23 represents a hook on the end of the chain 22 for the purpose of attaching a long cord or chain. When the scraper is back in the flue, the hooked end 23 of the chain 22

will just reach the opening 28 in the stovepipe, when said opening can be closed by the lid 29.

24 represents a lid secured to the end of the chain 21, and is for the purpose of closing the opening 27 in the pipe 1 when said scraper is back in the flue.

25 represents a hole in the bottom of the hub to allow any soot that may fall in the opening 14 to pass through.

In use this stovepipe-scraper is used as follows: The pipe is provided with the shaft or track 3, which is made square to prevent the scraper from turning. The scraper is placed on said shaft before it is secured to said pipe, when it is shoved back into the chimney to the arm 4, where it remains until it is pulled out for cleaning the stovepipe, when the cord 21 is pulled, which will, through the medium of the rim 26 and the scraper 17, scrape all of the soot loose from the stovepipe, when it will fall into the stove, from which place it can easily be removed. When the scraper has reached the lower cross-brace 5, which is just above the damper, the scraper can be pulled up over the turn in the elbow of the pipe by the chain 22, which will by pulling on the arm 19 raise the lid 17, (see Figs. 1, 3, and 5,) so that any soot that may be scraped from the pipe will not be carried back up into the chimney. This operation can be repeated as many times as desired. After the pipe is cleaned the scraper can be pushed

back from the position shown by the solid lines in Fig. 1 to the arm 4 by a rod from the opening 28.

Having thus described my invention, what I claim as new and useful, and desire to secure by Letters Patent, is as follows:

1. The herein-described stovepipe-cleaner, consisting of a shaft or track extending lengthwise through the center of said stovepipe, from the rear of the flue-hole to the damper, a scraper adapted to ride on said track its whole length, and means for moving said scraper from one end of said track to the other.

2. A stovepipe-cleaner consisting of a track permanently secured in the center of said stovepipe lengthwise, a scraper consisting of an outer rim having arms extending inwardly to a hub, said hub being adapted to ride on said track, and a means for operating the same.

3. A stovepipe-cleaner consisting of a track permanently secured to said stovepipe, a hub adapted to ride on said track having arms extending outwardly to a rim separated at one point, a flat scraper pivotally hung to said rim and chains secured to said scraper, for moving said scraper on said track.

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Witnesses:

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