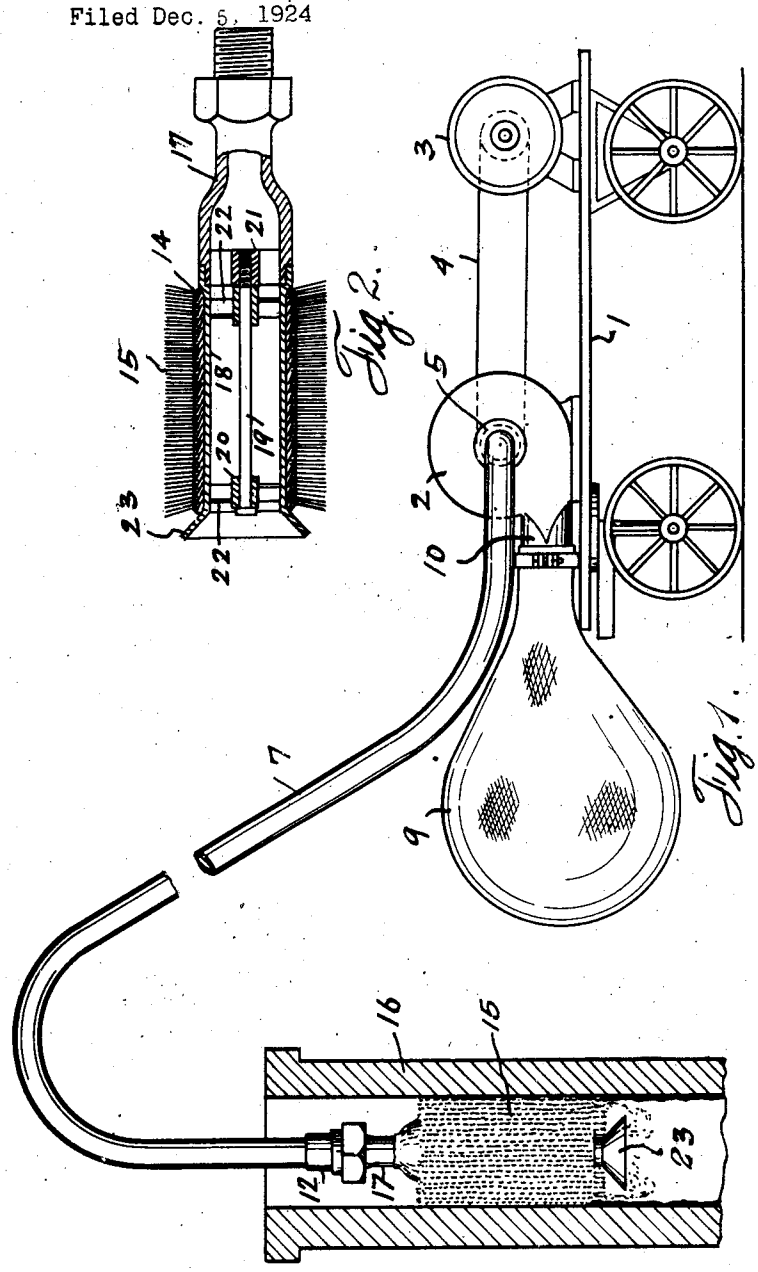
April 13, 1926.

1,580,294

I. GAWLEY

FLUE CLEANER

Filed Dec. 5, 1924



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Patented Apr. 13, 1926. 1,580,294

UNITED STATES PATENT OFFICE.

IRENE GAWLEY, OF HOUSTON, TEXAS.

FLUE CLEANER.

Application filed December 5, 1924. Serial No. 754,020.

To all whom it may concern:

Be it known that I, IRENE GAWLEY, a citizen of the United States, residing at Houston, in the county of Harris and State of Texas, have invented certain new and useful Improvements in a Flue Cleaner, of which the following is a specification.

This invention relates to new and useful improvements in a flue cleaner.

One object of the invention is to provide a flue cleaner whereby flues, chimneys and the like may be cleaned by the suction process.

Another object of the invention is to provide a cleaner of the character described by means of which flues and chimneys may be cleaned and the soot and ashes and the like are confined.

A further feature of the invention resides in the novel type of brush employed.

With the above and other objects in view the invention has particular relation to certain novel features of construction, operation and arrangement of parts, an example of which is given in this specification and illustrated in the accompanying drawings, wherein:—

Figure 1 shows a side elevation of the device and

Figure 2 shows a sectional view of the brush employed.

Referring now more particularly to the drawings wherein like numerals of reference designate similar parts in each of the figures, the numeral 1 designates the vehicle on which the apparatus is mounted. This vehicle may be an ordinary wagon as shown, or if desired a motor vehicle, such as a truck, may be employed. Mounted on the vehicle there is a suction fan 2 of conventional type. This brush may be driven by a motor 3 through the belt 4 which operates over the pulley 5 fixed on the fan shaft 6. It is obvious that if the motor vehicle is employed the suction fan may be operatively connected with and driven from the vehicle motor. A flexible hose 7 is connected to the suction inlet 8 of the suction fan and the usual retaining sack 9, of suitable flexible material is applied to the discharge outlet 10 of the suction fan. A suitable brush is connected to the free end of the hose 7, as shown in Figure 1, and in application the brush is lowered into the flue 16 from the top, as illustrated in Figure 1 and is moved up and down while the suction fan 2 is running. The brush is of sufficient weight to be moved down by gravity and as it is moved up and down the chimney it will sweep off the soot and ashes from the chimney walls, and the dislodged soot and ashes and the like will be sucked in through the funnel 23 and delivered into the sack 9, thus preventing the contamination of the air in the adjacent room or on the outside by the distribution of soot and ashes through it.

Referring specifically to Figure 2, the numeral 17 designates the nipple designed to be connected to the hose 7 as hereinabove described and the numeral 18 designates a rotatable brush support which is tubular and on which the brush is mounted. This support has a running fit around the end of the nipple 17 and is fixed on a central shaft 19 by means of the end spiders 20, 20 and the shaft 19 is attached to a spider 21 in the nipple 17. The arms 22 of the spiders 20 are formed of inclined vanes 22 and the outer end of the support 18 is flared forming the funnel 23. The air current through the brush against the vanes 22 will ordinarily be sufficient to rotate said brush as it is moved up and down the flue, and it will thus very effectively sweep out said flue.

What I claim is:—

In a flue cleaner a tubular nipple, a tubular brush support rotatably connected to and in axial alignment with said nipple, a brush on said support, a spider in the nipple, spiders in said support having central bearings and arms forming inclined vanes, a shaft supported by the nipple spider and extended through the bearings of the spiders in said brush support.

In testimony whereof I have signed my name to this specification.

MRS. IRENE GAWLEY.