

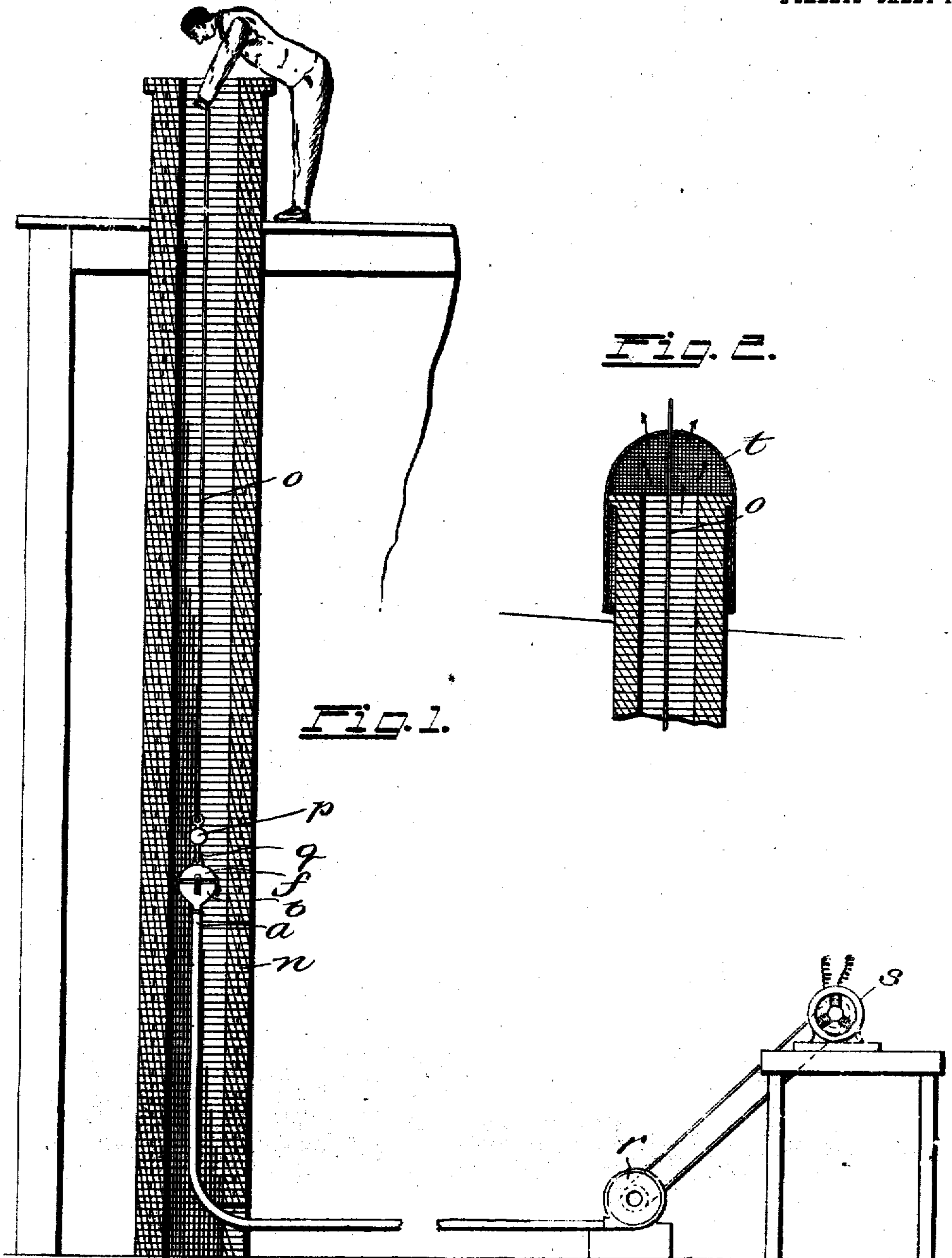
G. S. STUART.
CHIMNEY CLEANER.

APPLICATION FILED SEPT. 14, 1908.

922,353.

Patented May 18, 1909.

2 SHEETS—SHEET 1.



Witnesses
W. Map. Small by
Martin J. Fisher.

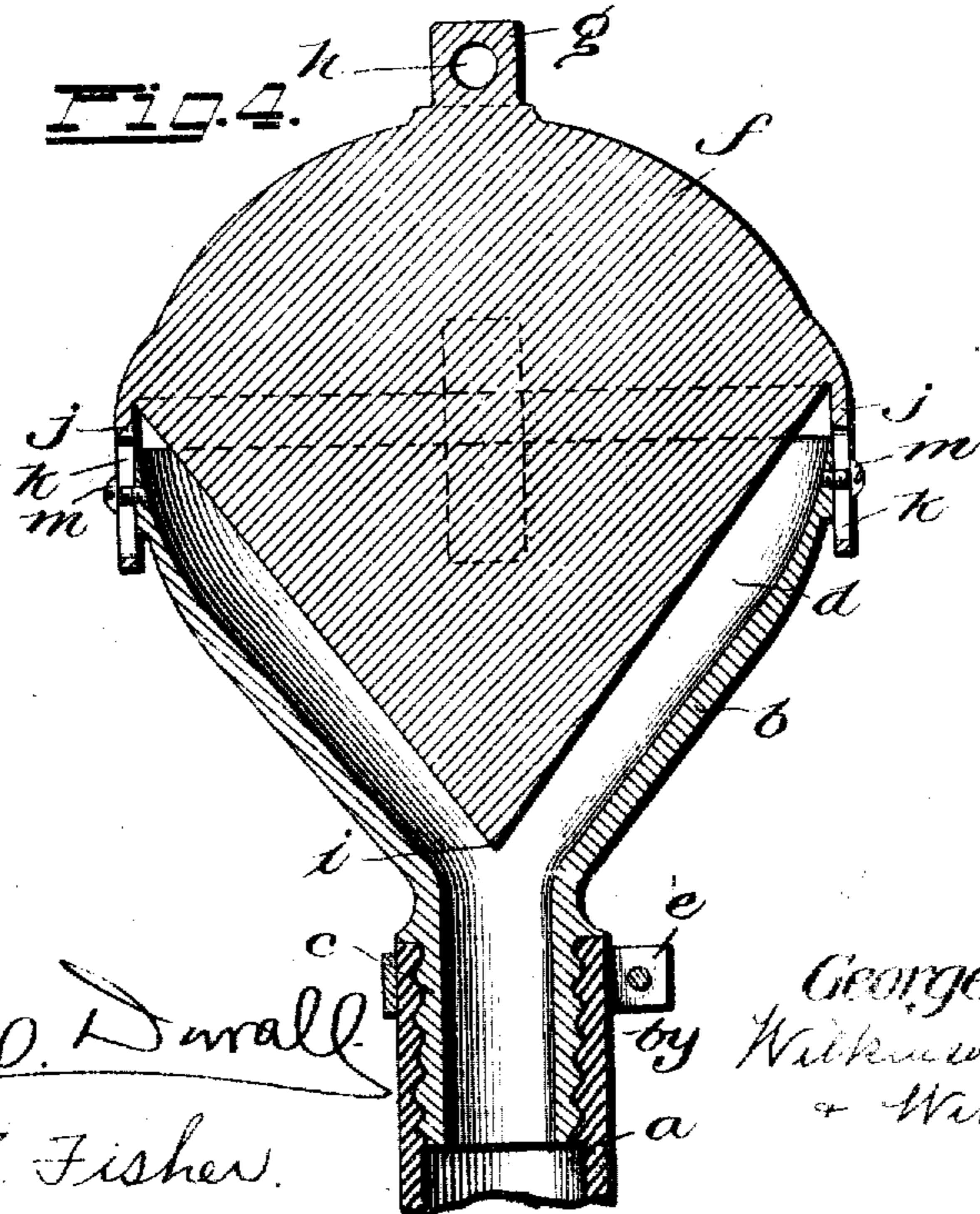
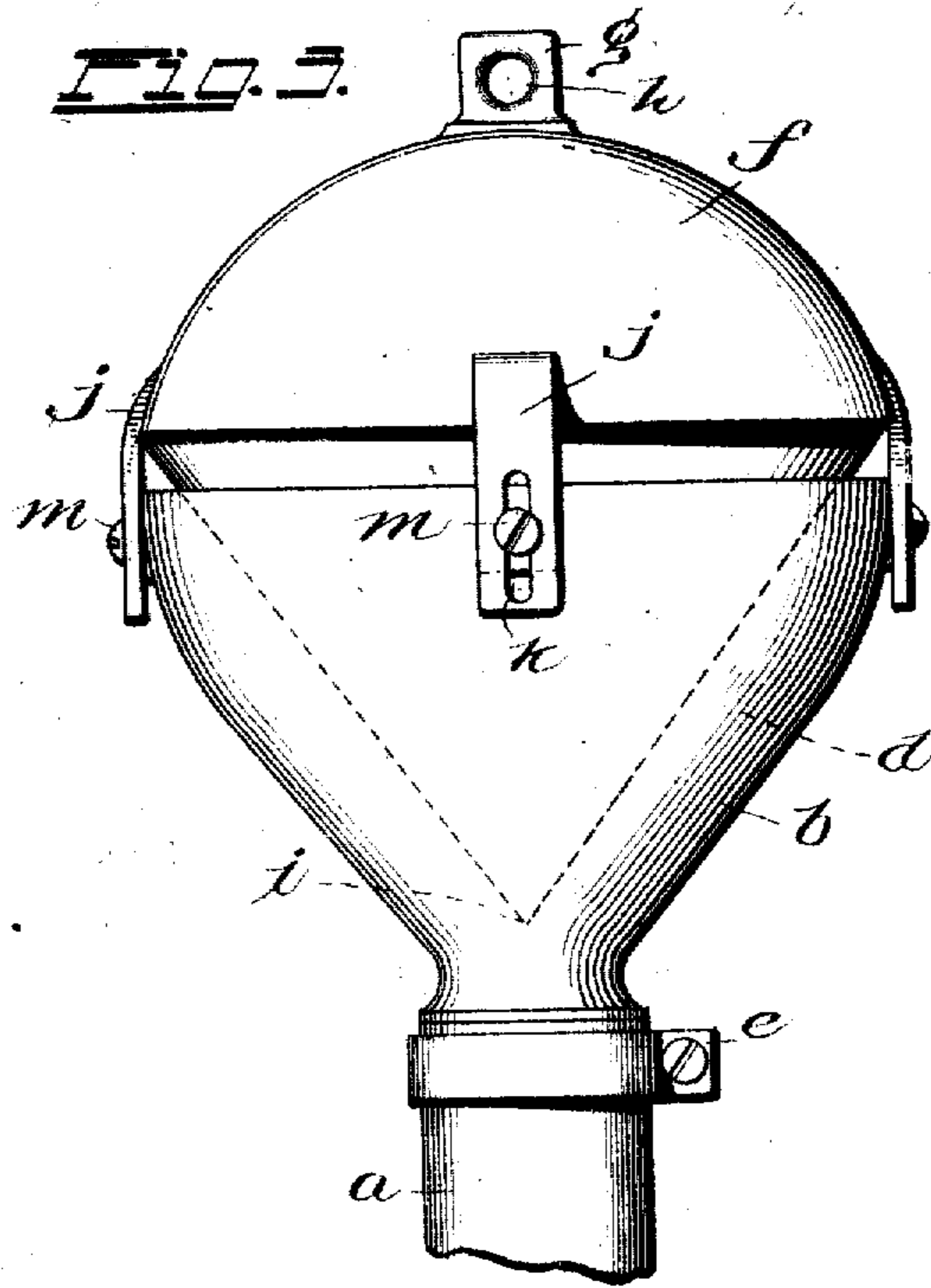
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UNITED STATES PATENT OFFICE.

GEORGE S. STUART, OF HOLLIDAYSBURG, PENNSYLVANIA.

CHIMNEY-CLEANER.

No. 922,353.

Specification of Letters Patent.

Patented May 18, 1909.

Application filed September 14, 1908. Serial No. 452,940.

To all whom it may concern:

Be it known that I, GEORGE S. STUART, a citizen of the United States, residing at Hollidaysburg, in the county of Blair and State of Pennsylvania, have invented certain new and useful Improvements in Chimney-Cleaners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in chimney cleaners, and the object of my invention is to provide a simple, economical, and easily operated device, by means of which chimneys may be readily cleaned.

With this object in view, my invention consists in the construction and combinations of parts as hereinafter described and claimed.

In the accompanying drawings—Figure 1 represents a chimney or flue in section, showing the manner of using my invention therein. Fig. 2 is a sectional view of the top of a chimney, showing a collecting device thereover, for the purpose of catching the soot, etc. Fig. 3 is a side view of the main part of my cleaning device, and Fig. 4 is a vertical cross section of the same.

a represents a flexible pipe such as a rubber hose, which is attached to the lower end of a vessel *b*. This vessel has a hollow extension *c* at its lower end, and is flared upwardly, leaving a large open space *d*. The extension *c* is preferably screw-threaded on the outside, although this is not exactly necessary, and to this extension is secured one end of the pipe or hose *a* by means of a suitable clamp *e*.

f represents a pear-shaped body, provided with an extension *g* on its upper part, which extension is perforated, as shown at *h*. The part *f* terminates below in a sharp point *i*. The parts *b* and *f* are preferably made of any kind of metal, such as brass. The parts *b* and *f* are connected together by means of extensions *j*, projecting downwardly from the part *f*, and either made integral with said part, or soldered, or otherwise fastened thereto. The parts *j* are perforated as shown at *k*, and through these perforations, adjusting screws *m* pass. It will thus be seen that a circular opening for the escape of

air is provided between the parts *b* and *f*, and the size of this circular opening may be varied at will by adjusting these parts toward or away from each other.

In Figs. 3 and 4, I have shown the main part of the device as substantially circular in horizontal section, but any desired shape might be used, according to the shape of the chimney or flue.

Referring to Fig. 1, *n* represents a flue or chimney, and *o* a cord which the operator lets down through the chimney from the top. This cord has a weight *p* attached to its lower end, which weight is provided with a hook *q*, adapted to hook into the extension *g* through the hole *h*. *r* represents a fan blower of any desired type, and *s* any desired form of motor.

In Fig. 2, I have shown means for catching the soot, etc., that is blown up the chimney by the device. This consists of a sack *t*, adapted to fit over the chimney and made of pervious material, so that the air can escape while the soot, etc. collects on the inside of the sack. When the cleaning device has been drawn up to the top of the chimney, the sack is bent over, and slipped off of the end of the chimney before the blast is cut off.

The operation is as follows:—The operator lets down the weight *p* from the top of the chimney, and engages it with the cleaner which is inserted in any suitable opening at the bottom of the chimney, the motor is then set in operation, whereupon the blower *r* causes a stream of air to be ejected upwardly through the device, which is then slowly drawn by the operator to the top of the chimney. It should be noted that on account of the shape of the parts, the blast is thrown outwardly in the form of a cone with its lower end at the bottom, and this is very essential in reaching all parts of the interior of the flue, thus insuring that no part of the interior of the flue shall escape the blast.

The invention is perfectly operative if the part *f* is entirely removed, and suction substituted for a blast, in which case, the dirt, etc. will be drawn into the space *d* and discharged into any suitable receptacle, (not shown).

While I have thus described my invention, I wish it to be distinctly understood that I

do not limit myself to the exact details shown and described, as these might be varied considerably without departing from the spirit of my invention.

5 I claim:—

1. The combination of a flue cleaning device composed of two parts adjustably fastened together and adapted to deliver a blast of air in a conical form, a fan blower
10 connected to one of said parts, and means attached to the other of said parts whereby the device may be slowly drawn up through a chimney or flue, substantially as described.

2. The combination of a flue cleaner composed of two parts, one of which is hollow, said parts being adjustably fastened together and adapted to deliver a conical blast of air, a flexible pipe attached to said hollow part, a blower connected with said pipe, and
15 means attached to the upper part whereby the cleaning device may be slowly drawn

up through a chimney, substantially as described.

3. The combination of a cleaning device composed of two parts, one of said parts 25 being hollow and flaring upwardly and outwardly, and the other of said parts being solid and having its lower part conical, said parts being adjustably connected together, and said upper part being provided with a 30 perforated extension, a flexible pipe connected to said lower part, a blower connected to said pipe, and a cord and hooked weight adapted to engage said upper part, substantially as described. 35

In testimony whereof, I affix my signature, in presence of two witnesses.

GEORGE S. STUART.

Witnesses:

A. W. NEALE, Jr.,
JAS. E. DODGE.