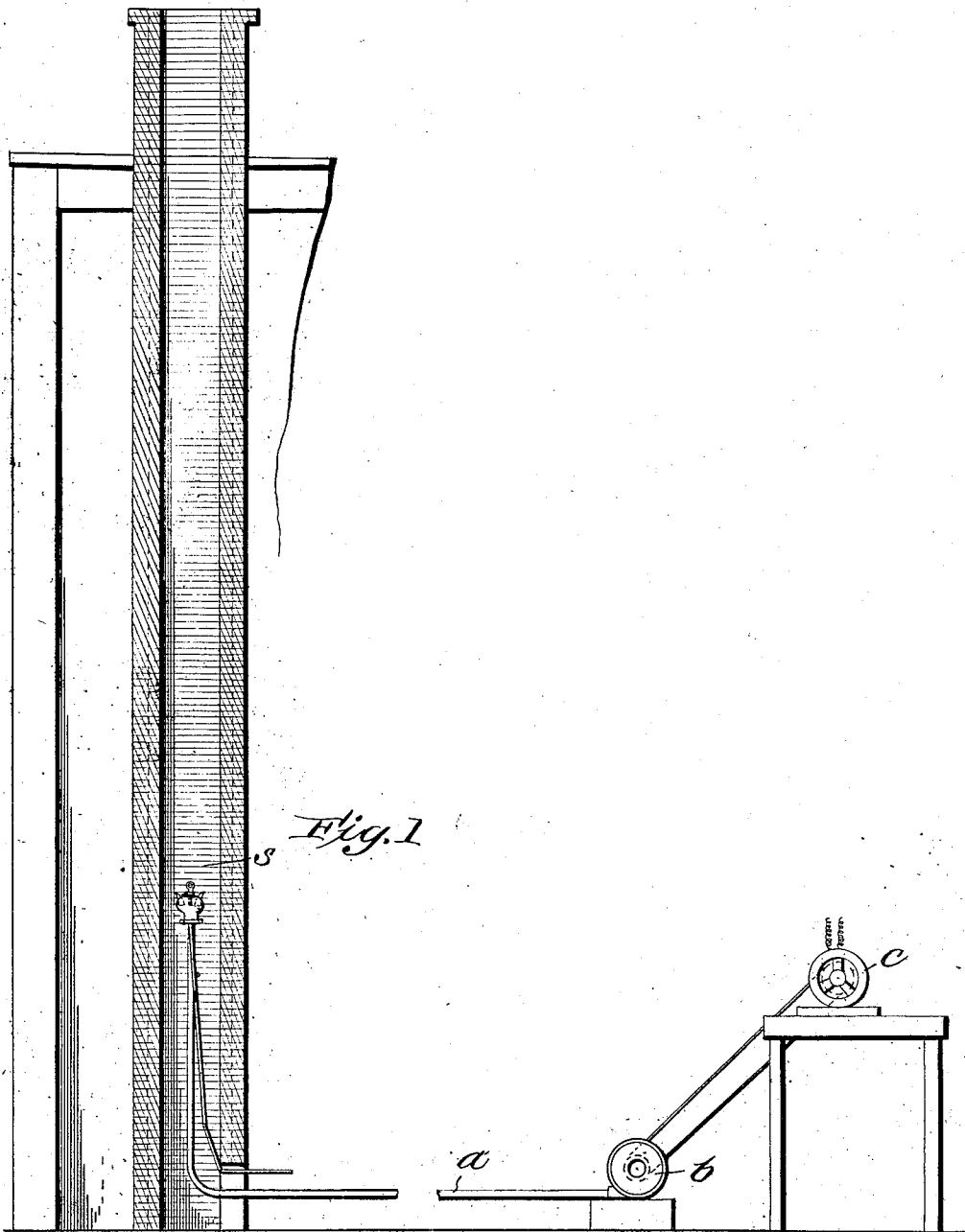


G. S. STUART.  
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APPLICATION FILED MAY 7, 1909.

968,207.

Patented Aug. 23, 1910.

2 SHEETS—SHEET 1.



Witnesses  
W. May Dural.  
Jas. E. Dodge.

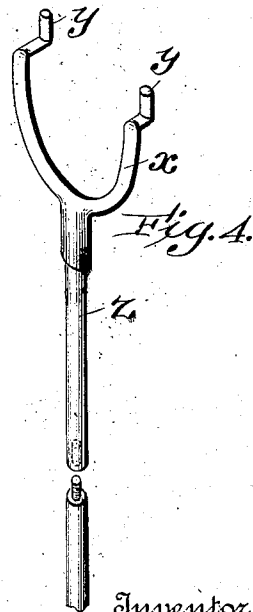
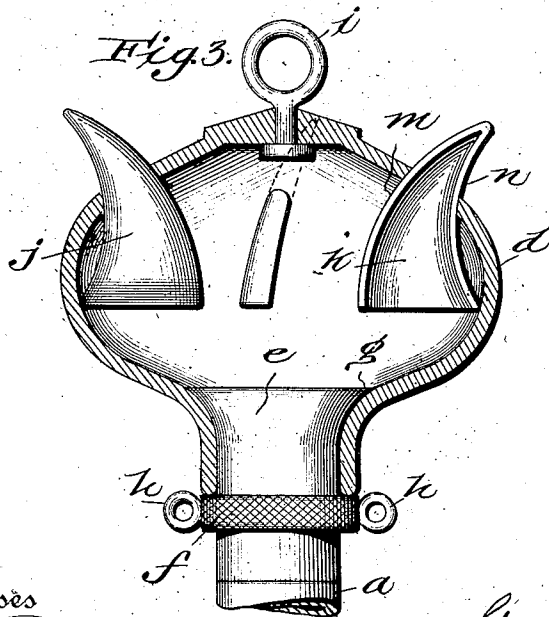
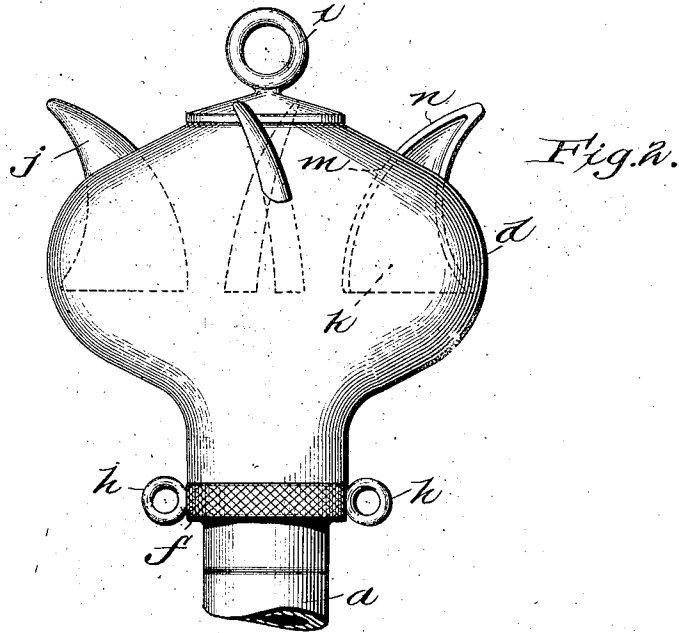
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2 SHEETS—SHEET 2.



Witnesses  
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Inventor  
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# UNITED STATES PATENT OFFICE.

GEORGE S. STUART, OF HOLLIDAYSBURG, PENNSYLVANIA.

## CHIMNEY-CLEANER.

968,207.

Specification of Letters Patent. Patented Aug. 23, 1910.

Application filed May 7, 1909. Serial No. 494,644.

*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, cheap, and easily operated device by means of which chimneys may be easily cleaned by passing a pneumatic apparatus from the bottom to the top thereof.

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 section of a chimney showing the manner of using my invention therein. Fig. 2 is a perspective view of a different form of blowing head, showing the preferred arrangement. Fig. 3 is a section taken centrally through the form shown in Fig. 2. Fig. 4 is a perspective view of the supporting fork, by means of which, in connection with the jointed rod, the apparatus may be lifted up through a chimney.

*a* represents a flexible pipe, such as a rubber hose, which is directly attached to the lower end of the blowing head by any suitable means. This hose is connected with a blower *b* of any desired type which is driven by any desired form of motor *c*, a small electric motor being shown in the drawing, adapted to rest on an ordinary table.

*d*, Figs. 2 and 3, represents a hollow blowing head generally shaped like an inverted bowl having its lower end open. To the end of the pipe *a* is fitted a flared connecting piece *e* which furnishes a means for holding the lower end of the bowl *d* in position but allowing it to revolve freely thereon.

*f* represents a ring attached to or formed integral with the part *e* and against which the lower end of the bowl rests, being confined thereon between the ring *f* and the flaring part *g* of the part *e*. This ring *f* is provided with eyelets *h* or similar fastening means.

Of course, any suitable means for sup-

porting the blowing head *d* on or just above the end of the flexible pipe *a*, which will allow the head *d* to freely rotate, may be used.

The top of the bowl is perforated and through it passes a bolt terminating in the ring *i* to which a rope may be attached, if desired, so that the device may be pulled up through a chimney by a man on the roof.

Located inside of the bowl *d* are a number of curved vanes *j* which project outwardly through the top of the bowl, as shown in Figs. 2 and 3. These vanes are of a peculiar shape, best shown in Fig. 3, being hollowed out as shown at *k*, and having projecting curved sides *m* and *n*. These vanes are outwardly divergent and reversely arranged and have air passages in their concave faces, leading outwardly through the head. The object of this construction is to cause the air which is forced under considerable pressure through the pipe *a* to be delivered through the grooves *k* of the parts *j* in a set of diverging jets which impinge on the inner wall of the chimney and which cause the head *d* to revolve thus insuring a thorough cleansing of the chimney as the blowing head is slowly pulled up or raised. As many of these parts *j* may be used as desired.

The apparatus may be pulled up by means of a rope attached to the ring *i*. Instead however, of pulling the blowing device upwardly it may be lifted in the following manner: *x* in Fig. 4, represents a fork provided with points *y* adapted to engage in the rings *h*. The lower part of this fork is provided with a reduced portion *z* which is adapted to fit onto the top section of a jointed pole. Thus the apparatus may be slowly lifted from time to time by adding successive joints to the pole, these joints being preferably screwed together.

What I claim is:

1. The combination of a blower, a flexible pipe connected thereto, a rigid pipe to which said flexible pipe is attached, and a blowing head rotatably mounted on said rigid pipe, said head being provided with curved concave vanes projecting outwardly from the interior thereof and air passages being provided adjacent said vanes, substantially as described.

2. The combination of a motor, a blower operated thereby, a flexible pipe connected to said blower, a rigid pipe to which said

flexible pipe is attached, and a hollow blowing head rotatably mounted on said rigid pipe; said head being provided with concave vanes outwardly divergent and reversely arranged, air passages being provided from the interior of said head along the cavities of the vanes, substantially as described.

3. The combination of a blower, a flexible pipe connected thereto, a rigid pipe connected to said flexible pipe and provided with an eyeleted ring, a blowing head rotatably mounted on said ring, and provided

with concave vanes, said vanes being outwardly divergent and reversely arranged, and air passages being provided from the interior of the head along the cavities of the vanes, and means for pushing said blowing head upwardly through a chimney, substantially as described.

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

GEORGE S. STUART.

Witnesses:

A. W. NEALE, Jr.,  
GEO. B. PITTS.