S. R. MORDEN.

SOOT REMOVER.

APPLICATION FILED APR. 4, 1917.

1,242,838. Patented Oct. 9, 1917.

Fig. 1.

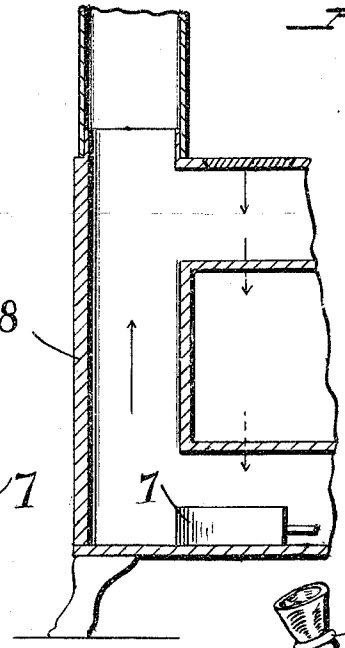


Fig. 3.

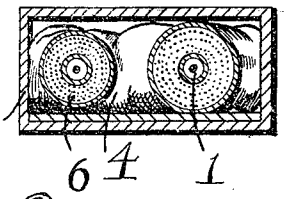


Fig. 2.

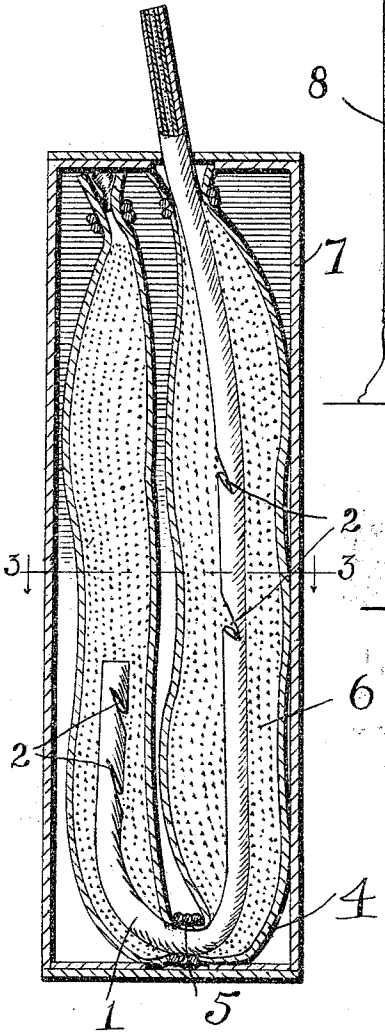
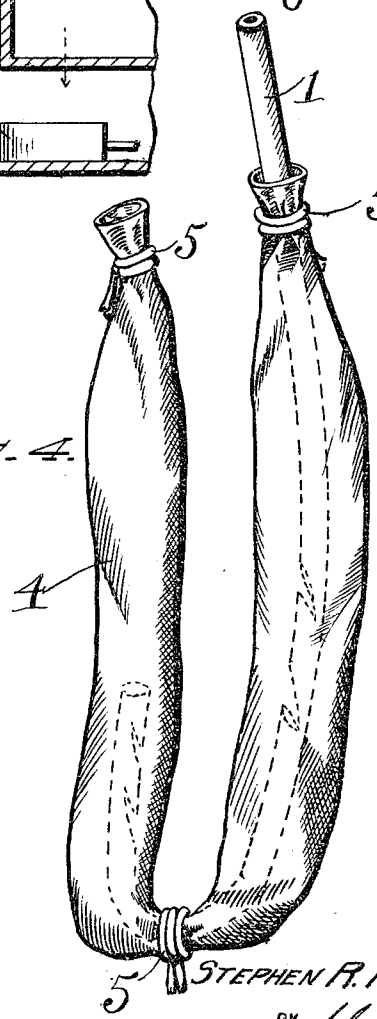


Fig. 4.



WITNESSES

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SOOT-REMOVER.

1,242,838. Specification of Letters Patent. Patented Oct. 9, 1917.

Application filed April 4, 1917. Serial No. 159,642.

To all whom it may concern:

Be it known that I, STEPHEN RICHARD MORDEN, a citizen of the United States, and a resident of Idaho Falls, in the county of Bonneville and State of Idaho, have invented an Improvement in Soot-Removers, of which the following is a specification.

My invention is an improvement in soot removers, for flues and the like, and has for its object to provide mechanism of the character specified, for removing the soot from a stove and flue, without injury to either, and in an expeditious and thorough manner.

In the drawings:

Figure 1 is a sectional view of a part of a stove showing the method of using the device.

Fig. 2 is a section through the carton and the soot remover.

Fig. 3 is a section on the line 3—3 of Fig. 2, looking in the direction of the arrows adjacent to the line.

Fig. 4 is a perspective view of the device removed from the carton.

The present embodiment of the invention comprises a length 1 of fuse, which is provided at intervals with cuts 2 of sufficient depth to open the bore of the fuse, in order that when the fuse is lighted the fire may spit out from the opening.

An outer casing or jacket 4 of cloth is provided in connection with the fuse, the said cloth being in the form of a strip which is wrapped about the fuse, and is secured to the fuse by means of lengths 5 of cord. This cloth or jacket 4 is of enough greater cross section than the fuse to provide an annular space between the fuse and the jacket, and this space is divided into chambers or receptacles by the cords 5, before-mentioned, which are tied tightly about the cloth and the fuse.

Within each of these chambers is arranged a supply of blasting powder indicated at 6, and it will be noticed that the cuts 2 in the fuse are at the centers of the chambers, the arrangement being such that when the fuse is lighted, the powder in the several chambers will be ignited successively.

It will be noticed from an inspection of Figs. 2 and 4 that one end of the fuse is extended beyond the jacket 4, while the other end is well within the end of the jacket, and the completed device is arranged within a paper carton or container 7, with the extended end of the fuse passing out through an opening in the top of the same. This extended end may be ignited to set off the device, and directions for the use of the device, or advertising matter, may be printed on the carton directly or may be arranged on a label which is applied to the carton.

In use, the stove 8, to be operated upon, is provided with a good fire, and with a cook stove the drafts are arranged as in baking. The front draft is then closed, and a back stove lid is lifted. The extended end of the fuse is now lighted, and held in the hand until it begins to snap and spit fire. The device is then dropped down the fire course, behind the oven, so that it will land just below the oven, and the lid is replaced. As the packets of powder explode, the soot is thoroughly removed from both flue and chimney.

I claim:

A device of the character specified, comprising a length of fuse, a tubular jacket encircling the fuse and forming an annular chamber between the fuse and the jacket, said space being divided into separate chambers, and the said chambers containing an explosive, the fuse having cuts at the chambers extending into the bore of the same.

STEPHEN RICHARD MORDEN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents. Washington, D. C."