Oct. 21, 1958 J. E. SODERBERG 2,856,839

CHIMNEY CAP

Filed Nov. 27, 1956

Fig. 1

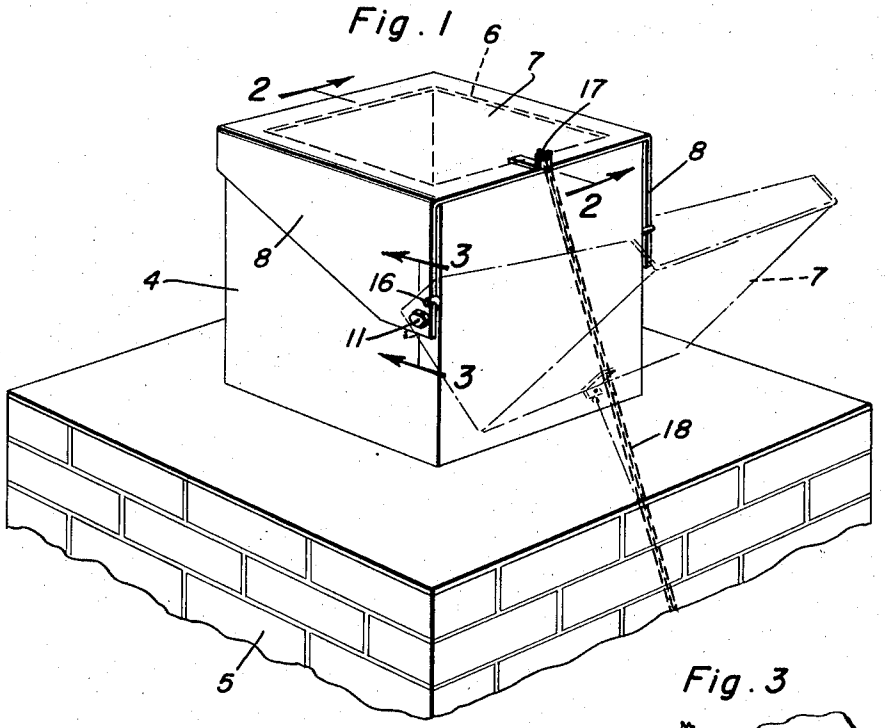


Fig. 3

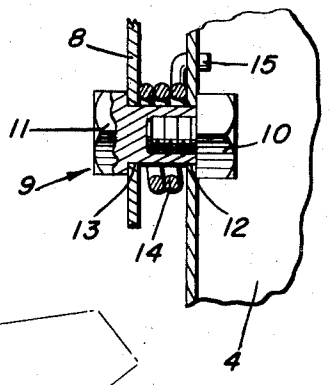
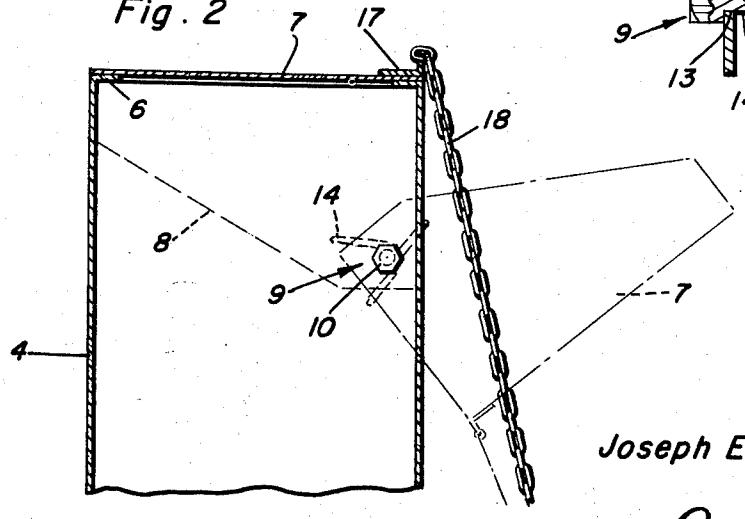


Fig. 2



Joseph E. Soderberg
INVENTOR.

BY Clarence A. O'Brien and Harvey B. Jackson
Attorneys

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2,856,839

CHIMNEY CAP

Joseph E. Soderberg, Warren, Minn.

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2 Claims. (Cl. 98—59)

The present invention relates to new and useful improvements in chimney caps and has for its primary object to provide, in a manner as hereinafter set forth, a device of this character comprising novel means for positively excluding the elements, when desired, also animals, birds, etc., from a chimney.

Another very important object of the invention is to provide, in a chimney cap of the type including a stack and a swinging cover, novel means for pivotally mounting said cover on said stack.

Other objects of the invention are to provide a chimney cap of the character described which will be comparatively simple in construction, strong, durable, compact, attractive in appearance and which may be manufactured and installed at low cost.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspective view of a chimney cap constructed in accordance with the present invention, showing the device installed;

Figure 2 is a view in vertical section through the upper portion of the device, taken substantially on the line 2—2 of Figure 1; and

Figure 3 is a vertical sectional view through one of the cover pivots, taken substantially on the line 3—3 of Figure 1.

Referring now to the drawing in detail, it will be seen that the embodiment of the invention which has been illustrated comprises a substantially square metallic stack 4 of suitable dimensions which is adapted to be secured vertically on the upper end or top of a conventional chimney, as indicated at 5. At its upper end, the stack 4 terminates in an inturned flange 6.

Pivotally mounted for swinging movement in a vertical plane on the stack 4 and adapted to seat when in closed position on the flanged upper end 6 thereof is a hood or cover 7 of suitable metal. The cover 7 straddles the stack 4, said cover including right angularly bent side flanges 8 which receive said stack therebetween.

Pivots 9 in the rear end portions of the flanges 8 secure the cover 7 on the stack 4. As shown to advantage in Figure 3 of the drawing, the pivots 9 comprise headed, threadedly connected male and female bolts 10 and 11, respectively. The stack 4 and the flanges 8 are provided, respectively, with aligned, circular openings 12 and 13 which receive the female bolt 11.

Mounted on the bolts 11, between the stack 4 and the flanges 8, are coil springs 14. One end portion of the coil springs 14 are anchored in apertures provided therefor in the stack 4, as indicated at 15. At their other ends, the coil springs 14 terminate in hooks 16 which are engaged behind the rear ends of the flanges 8 for yieldingly

urging the cover 7 toward closed position on the stack 4.

Mounted on the rear end portion of the cover 7 is a metallic bracket 17. A pull chain or cable 18 has one end connected to the bracket 17.

It is thought that the operation of the invention will be readily apparent from a consideration of the foregoing. Briefly, the tensioned coil springs 14 normally retain the cover 7 in closed position on the top 6 of the stack 4 with the assistance of gravity. Thus, the top of the chimney 5 is tightly closed for excluding the elements, birds, animals, etc. To open the chimney when desired, the cover 7 is swung upwardly, rearwardly and downwardly to the broken line position of Figure 1 of the drawing against the tension of the springs 14 through the medium of the pull chain or cable 18 in an obvious manner. The chain or cable 18 may be secured in any suitable manner. Also, the chain or cable 18 may be operated either from the interior or the exterior of the cabin, house or other building. Of course, when the chain or cable 18 is released the cover 7 is returned to closed position on the stack 4 by the springs 14.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly all suitable modifications and equivalents may be resorted to, falling within the scope of the invention as claimed.

What is claimed as new is as follows:

1. A chimney cap of the character described comprising: a stack open at its upper end, said stack for mounting on top of a chimney, a cover for said upper end of said stack, said cover including angularly bent side flanges receiving the stack therebetween, said stack and side flanges having aligned openings therein, pivots engaged in the aligned openings for mounting the cover on the stack for vertical swinging movement, said pivots including headed, threadedly connected male and female bolts extending through the openings, means for manually swinging the cover to open position, and means for closing said cover comprising springs terminally attached to opposite sides of said stack and having hooked ends hooking over edges of said flanges.

2. A chimney cap of the character described comprising: a stack open at its upper end, said stack for mounting on top of a chimney, a cover for said upper end of said stack, said cover including angularly bent side flanges receiving the stack therebetween, said stack and side flanges having aligned openings therein, pivots engaged in the aligned openings for mounting the cover on the stack for vertical swinging movement, said pivots including headed, threadedly connected male and female bolts extending through the openings, means for manually swinging the cover to open position, and means for closing said cover, the last-named means comprising coil springs encircling the female bolts between the stack and the flanges, said coil springs being tensioned and having one end anchored to the stack and their other ends anchored to said flanges.

References Cited in the file of this patent

UNITED STATES PATENTS

544,390	Shannon	Aug. 13, 1895
545,834	Williamson	Sept. 3, 1895
776,642	Budd	Dec. 6, 1904
1,084,850	Ford	Jan. 20, 1914
1,594,351	Butterfield	Aug. 3, 1926
2,311,915	Tummel	Feb. 23, 1943