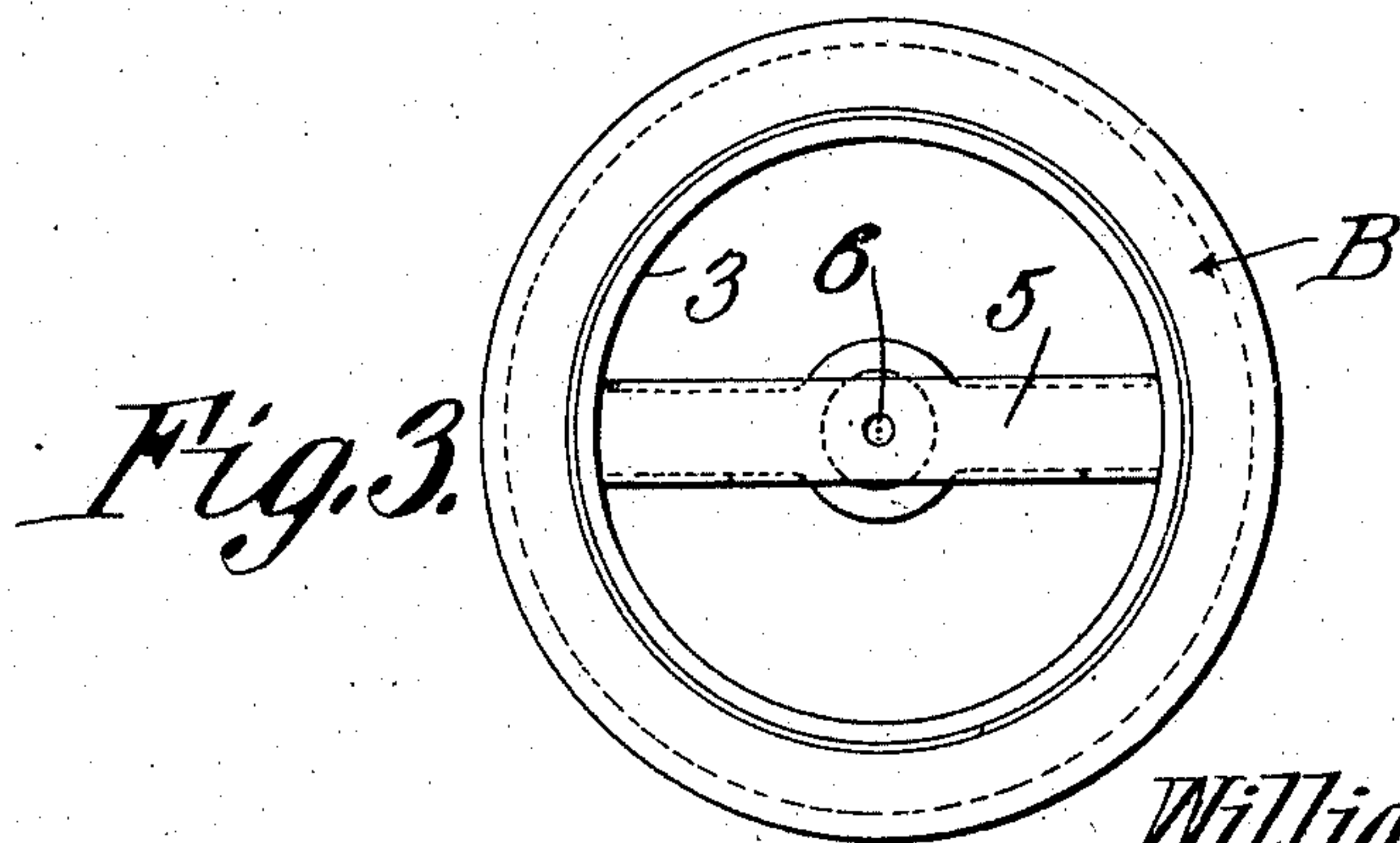
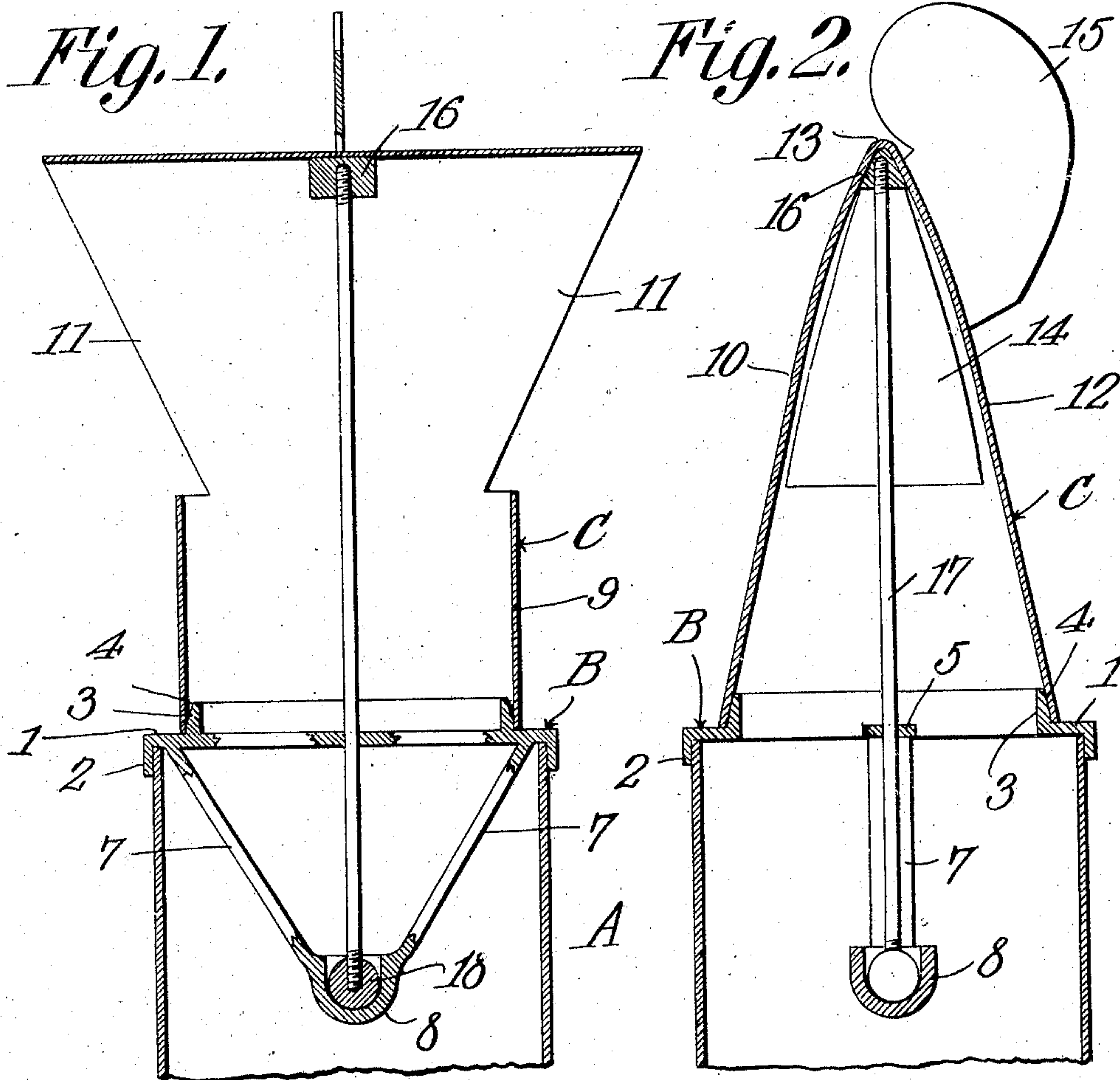


No. 846,446.

PATENTED MAR. 12, 1907.

W. R. A. BALL.
CHIMNEY COWL.

APPLICATION FILED OCT. 1, 1906.



WITNESSES:

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UNITED STATES PATENT OFFICE.

WILLIAM R. A. BALL, OF ST. THOMAS, NORTH DAKOTA.

CHIMNEY-COWL.

No. 846,446.

Specification of Letters Patent.

Patented March 12, 1907.

Application filed October 1, 1906. Serial No. 336,957.

To all whom it may concern:

Be it known that I, WILLIAM R. A. BALL, a citizen of the United States, residing at St. Thomas, in the county of Pembina and State of North Dakota, have invented a new and useful Chimney-Cowl, of which the following is a specification.

This invention relates to chimney cowls or tops.

10 The objects of the invention are to improve and simplify the construction of such devices; furthermore, to increase their efficiency in use and to decrease the expense attending their manufacture.

15 With the foregoing and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that 20 changes in the precise embodiment of invention herein disclosed can be made within the scope of the following claims without departing from the spirit of the invention or sacrificing any of its advantages.

25 In the accompanying drawings, forming part of this specification, Figure 1 is a vertical section through a chimney-cowl constructed in accordance with the present invention. Fig. 2 is a vertical section taken at 30 a right angle to Fig. 1, and Fig. 3 is a plan view of the supporting member.

Like reference-numerals indicate corresponding parts in the different figures of the 35 drawings.

The reference-letter A indicates a portion of a chimney-pipe, B a supporting member, and C a hood, which is mounted for rotary movement upon the supporting member B.

40 The supporting member B preferably consists of a plate 1, which corresponds in shape with the upper end of the chimney or chimney-pipe and is provided at its outer edge with a depending flange 2, adapted to fit 45 down around the upper end of the chimney to hold the supporting member in proper position thereon. At its inner edge the plate 1 of the supporting member B is provided with an upstanding annular flange 3, the upper outer portion of which preferably is beveled or inclined, as indicated at 4.

50 Extending transversely across the center of the plate 1 is a cross-piece 5, which is formed with a perforation 6, as shown in Fig. 3, adapted to receive the vertical shaft of the 55 hood C. Extending downward from the end

of the cross-piece 5 and converging toward each other is a pair of hangers 7, which serve to support at their lower ends a socket-piece 8, preferably in the nature of an enlarged 60 cup, as shown.

The hood C, which is formed of any suitable material, preferably comprises an approximately annular member or collar 9, which fits downward around the upstanding 65 annular flange 3 of the supporting member B. Extending upward from one edge of the collar 9 is a front wall 10 of the hood C. The front wall 10 is imperforate and is inclined rearwardly, as shown in Fig. 2, so as to lessen 70 the resistance which the hood will offer to the wind. The side edges 11 of the front wall 10 preferably diverge from their lower to their upper ends, as shown in Fig. 1, so as to cause the front wall 10 to be approxi- 75 mately fan-shaped. The rear wall 12 of the hood C is similar in shape to the front wall 10 and is inclined forward, so as to be connected at its upper end with the front wall 10, as indicated at 13. The hood C is formed at its 80 opposite sides with openings 14, which permit the escape of the products of combustion from the chimney A.

For the purpose of holding the front and rear walls 10 and 12 at a right angle to the 85 wind a fin or blade 15 is suitably secured to the upper end of the rear fan-shaped wall 12.

Secured in the upper end of the hood C, adjacent the central portion thereof, is a block 16, into which is threaded a vertical shaft 17, 90 which extends downward through the opening 6 in the cross-piece 5 of the supporting member B and is threaded at its lower end into a ball-bearing member 18. The ball-bearing member 18 is mounted in the socket- 95 piece 8 of the supporting member B and permits easy rotation of the hood C upon said supporting member.

The chimney-cowl of the present invention is found in practice to be thoroughly effective for the purposes for which it is intended. It can be constructed of any suitable material or materials and can be of any desired proportions and size. It is strong, simple, durable, and inexpensive in construction, as well as valuable in use. 105

The inclined front wall 10 serves to deflect the wind upward, and thus reduce the resistance of the cowl to the wind.

What is claimed is—

1. A cowl comprising a supporting member having a retaining-flange at the periphery 110

thereof, converging hangers depending from said member and having a socket at their merging ends, a ball within the socket, a shaft extending therefrom and journaled within the supporting members, a hood bearing upon one end of the shaft and rotatable therewith, a plate outstanding from the hood, a collar rotatable with the hood, and an upstanding circular guide-flange upon the supporting member and loosely surrounded by the collar.

2. A chimney-cowl comprising a supporting member consisting of a plate adapted to rest upon the upper end of the chimney and having a depending flange at its outer edge and an upstanding annular flange at its inner edge, a cross-piece connected with said plate, diverging hangers connected with said plate, a socket supported by said hangers, a hood consisting of an annular collar adapted

to fit around the upstanding annular flange of said supporting member, inclined fan-shaped front and rear walls connected at their lower ends with said collar and at their upper ends with each other to provide end openings in said hood, a block connected with the upper ends of said front and rear walls, a vertical shaft threaded into said block, and a ball having a threaded connection with the lower end of said shaft and being fitted into the socket of said supporting member.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WM. R. A. BALL.

Witnesses:

A. L. MILLER,
H. L. KRILER.