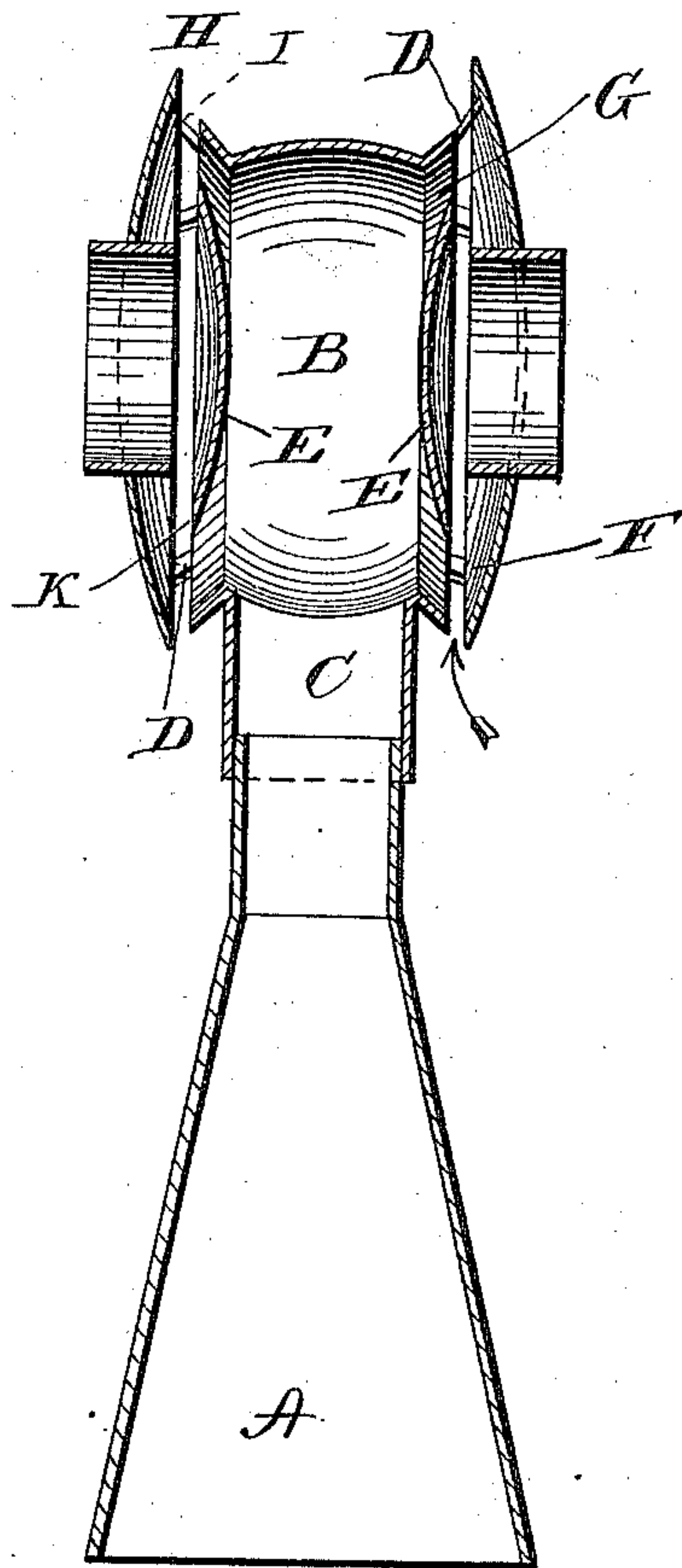


C. C. CAYWOOD.
Chimney Cap and Cowl.

No. 224,873.

Patented Feb. 24, 1880.



Witnesses:

A. L. Curran

E. H. Bradford

Inventor:

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att'y.

UNITED STATES PATENT OFFICE.

CHARLES C. CAYWOOD, OF CLARKSBURG, WEST VIRGINIA.

CHIMNEY CAP AND COWL.

SPECIFICATION forming part of Letters Patent No. 224,873, dated February 24, 1880.

Application filed January 17, 1880.

To all whom it may concern:

Be it known that I, CHARLES C. CAYWOOD, a citizen of the United States, residing at Clarksburg, in the county of Harrison and State of West Virginia, have invented certain new and useful Improvements in Chimney-Caps and Ventilators; 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

This invention relates to an improved chimney cap or cowl; and it has for its object to produce a device by which an upward and outward draft will be automatically created in a chimney or flue by the action of the wind when striking the cap or cowl from any quarter or direction whatever.

To this end my invention consists in a cap or cowl constructed of a short horizontal cylinder surmounting and connected with a chimney or flue, the said cylinder having mounted at each end a concavo-convex disk, with the concave face outward, and on each end a concavo convex annulus, with the concave face inward, an intervening space being left between the ends of said cylinder and the annuli, and the whole arranged to operate as more fully hereinafter specified.

The drawing represents a vertical sectional view of my improved device, in which the letter A indicates a chimney or other flue. The letter B indicates a short cylinder having a lateral opening, C, and connected to and communicating with the chimney or flue A. The edges or ends of said cylinder are flanged outwardly, as shown at D, for the purpose to be hereinafter explained.

The letter E indicates two concavo-convex

disks or deflectors, located one at each end of the horizontal cylinder B. The said disks are connected with and supported in the cylinder B by means of the connection F, so as to leave an annular space, G, between the two.

The letter H indicates two concavo-convex annuli, with their concave faces toward the ends of the cylinder B. These are connected to the cylinder and held in position by the connection I, so as to leave an annular space, K, between their adjoining edges, as shown in the drawings.

The operation of my invention will be readily understood in connection with the above description.

The cowl or cap, as before stated, surmounts and communicates with the chimney or flue A. As the parts are arranged, the wind entering any of the openings, by reason of the concavo-convex deflectors E, is prevented from entering the cylinder B, and is directed outwardly, exhausting the air in said cylinder, and therefore creating an upward draft in the flue or chimney A, and carrying the products of combustion off outwardly.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

In a chimney cowl or cap, the combination of the horizontal cylinder B with the chimney or flue, the said cylinder being provided at each end with a concavo-convex disk or deflector, E, and a concavo-convex annulus, H, the whole constructed and arranged to operate substantially in the manner specified.

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

CHAS. C. CAYWOOD.

Witnesses:

L. D. PATTON,
J. F. RAPP.