

W. D. CRAIG.
STATIONARY CHIMNEY AND SMOKE STACK COWL.
No. 550,160. Patented Nov. 19, 1895.

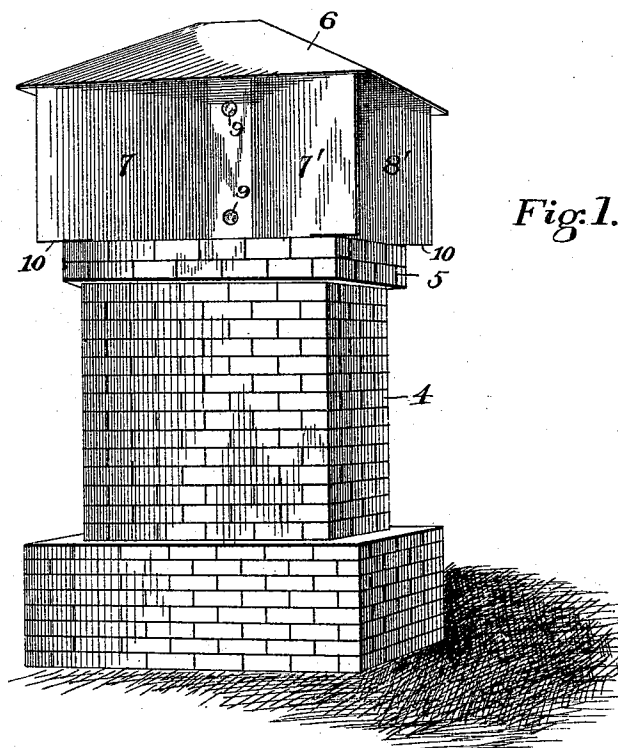


Fig. 1.

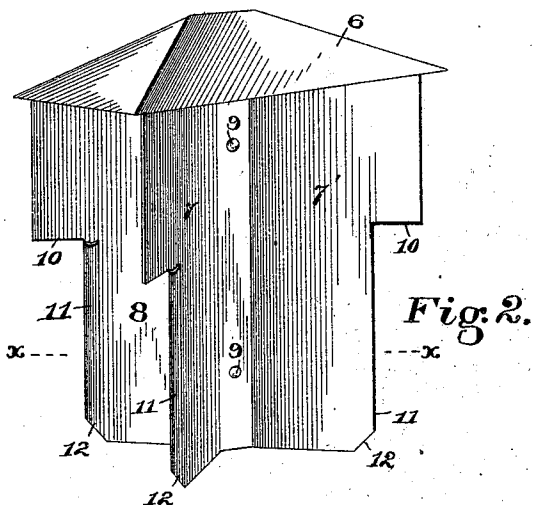


Fig. 2.

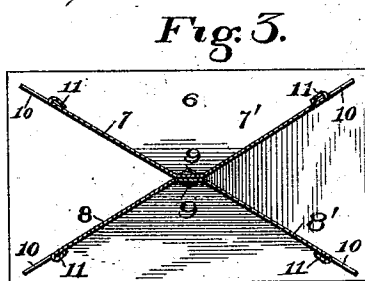


Fig. 3.

WITNESSES
E. C. Littlepage
Alvan Macaulay.

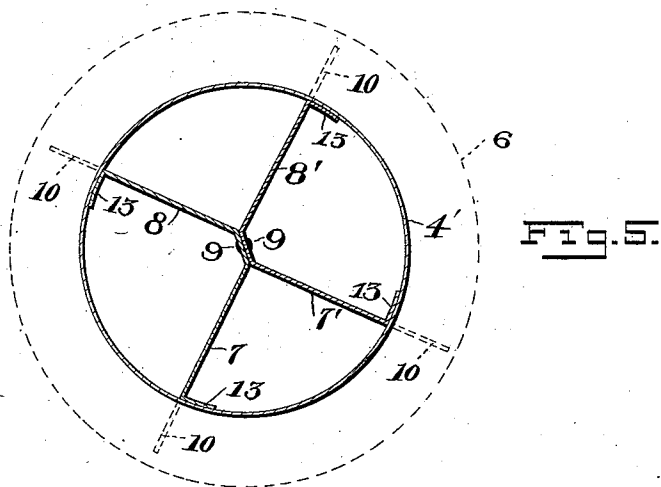
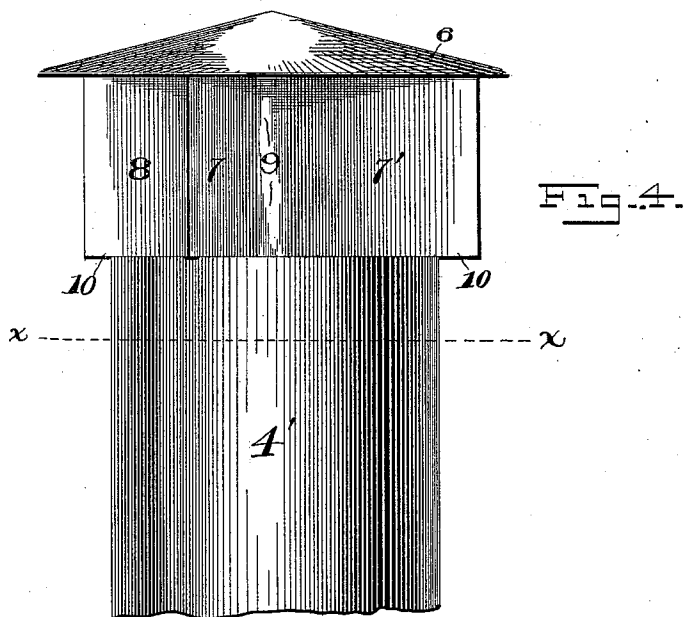
Inventor.
William D. Craig
By James I. Young.
Attorney

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Alvan Macaulay
L. A. Mills

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William D. Craig
By *James L. Young*
Attorney

UNITED STATES PATENT OFFICE.

WILLIAM D. CRAIG, OF KANSAS CITY, MISSOURI.

STATIONARY CHIMNEY AND SMOKE-STACK COWL.

SPECIFICATION forming part of Letters Patent No. 550,160, dated November 19, 1895.

Application filed March 12, 1895. Serial No. 541,460. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM D. CRAIG, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Stationary Chimney and Smoke-Stack Cows, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to an improvement in stationary chimney and smoke-stack cowl, the object of the invention being to provide a device of the class described by means of which when applied to a chimney a free passage for the smoke and other products of combustion is always maintained regardless of the direction or intensity of the wind.

A further object of the invention is to provide a device of the class described which when required may be cheaply and easily made and which can be readily placed in position or removed from the chimney or smoke-stack as occasion may demand.

In the accompanying drawings, Figure 1 is a perspective view of a chimney with an improved cowl applied thereto. Fig. 2 is a similar view of the cowl detached. Fig. 3 is a view on the line *xx* of Fig. 2, looking toward the cap of the cowl. Fig. 4 is a view of the cowl as applied to a smoke-stack. Fig. 5 is a sectional view on the line *xx* of Fig. 4.

Like numerals of reference indicate the same parts in all the figures.

Referring particularly to the drawings, the numeral 4 designates the chimney, which may be of any form and construction.

In Fig. 1 of the drawings, for purpose of illustration, I have shown the chimney as rectangular in cross-section and provided along its upper edge with a bead 5. The form, size, and shape of the chimney or smoke-stack are, however, immaterial, as the peculiar construction of my cowl renders it applicable to all forms of chimneys or smoke-stacks.

As shown in the drawings, the cowl is preferably made of three pieces of galvanized sheet-iron, one of which forms the cap 6. The wings 7 7' are formed of a single piece of sheet metal creased and bent centrally from end to end. The wings 8 8' are similarly formed of another piece, and these two pieces

forming the wings are brought together and secured along the central crease by the rivets 9. Along their upper edges the wings are secured to the cap 6. It will be observed that the wings extend radially from the said central crease and each has its vertical edges partly cut away to form shoulders 10. The vertical edges 11 of the cut-away portions are rolled over so as to present a rounded edge, for a purpose to be presently described. The lower corners are inclined, as shown at 12, to facilitate the operation of placing the cowl in position on the chimney or smoke-stack.

In practice the cowl is made of such a size that when placed upon the chimney or smoke-stack and pushed downward the rounded edges 11 will enable it to slide with comparative ease into the chimney or smoke-stack, while the shoulders 10 rest upon the top surface thereof. In this manner the cowl may be securely fixed in position without other means of fastening; but whenever desired it may be readily removed by simply lifting it out.

It will be observed that the wings divide the chimney or smoke-stack into four parts without materially lessening its capacity, and each part or division is wholly distinct and separated from the others, and it is obvious from a consideration of this construction that whatever the direction or intensity of the wind there will at all times be at least two of the divisions open and sheltered, thus affording a free escape for the smoke and other products of combustion. The lower ends of the wings extend down into the chimney or smoke-stack a sufficient distance to obviate the possibility of the wind circulating under them and through the divisions formed by the wings.

Figs. 4 and 5 show the form of the cowl as particularly adapted to smoke-stacks, the only difference consisting in the edges 13 of the cut-away portions of the wings, which instead of being rolled entirely over, as in the form shown in Fig. 2, are bent so as to be flat along the curved interior of the smoke-stack.

The cowl can be cheaply and readily made to fit any size or style of chimney. There are no bearings or other working parts to get out of order, and in practice my cowl has

been found to perform perfectly all the requirements of an ideal device of its class.

Having thus described my invention, I claim as new and desire to secure by Letters
5 Patent of the United States—

A stationary chimney or smoke stack cowl, comprising vertical, radially extending wings having shoulders formed by cut-away portions which are arranged to fit the interior of
10 the chimney or smoke stack said shoulders

being adapted to rest upon the upper surface of the chimney or smoke stack, substantially as described.

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

WILLIAM D. CRAIG.

Witnesses:

KITTIE REES,

MYRTLE WOODLING.