

No. 610,033.

Patented Aug. 30, 1898.

A. DICKEY.
CHIMNEY COWL.

(Application filed Mar. 26, 1898.)

(No Model.)

Fig. 1.

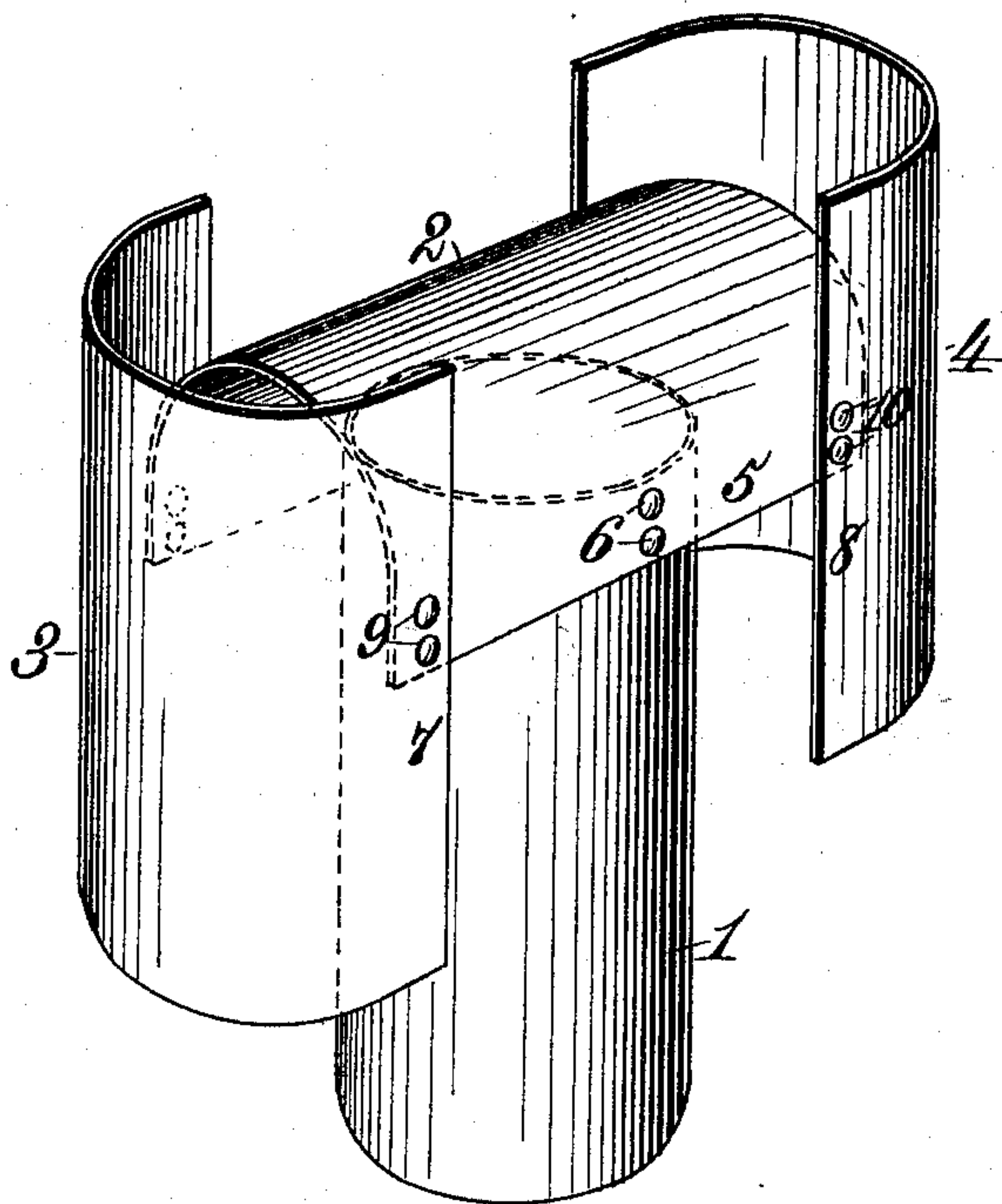
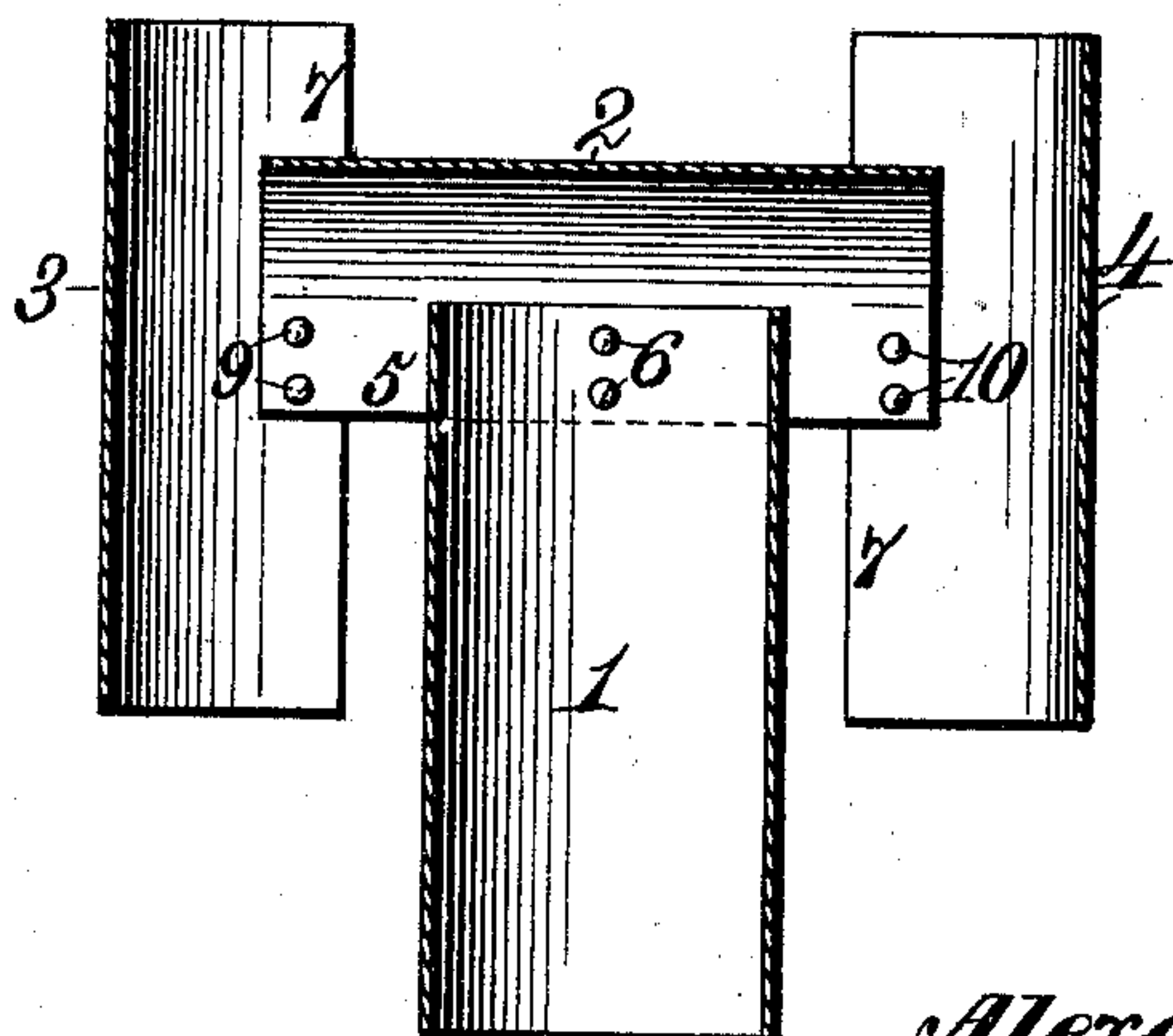


Fig. 2.



Witnesses.
Robert Emmett.
Albert H. Norris.

Inventor:
Alexander Dickey.
By *James L. Norris.*
Atty.

UNITED STATES PATENT OFFICE.

ALEXANDER DICKEY, OF TRENTON, NEW JERSEY, ASSIGNOR OF ONE-HALF
TO ROBERT WILLIAM DICKEY, OF PHILADELPHIA, PENNSYLVANIA.

CHIMNEY-COWL.

SPECIFICATION forming part of Letters Patent No. 610,033, dated August 30, 1898.

Application filed March 26, 1898. Serial No. 675,312. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER DICKEY, a citizen of the United States, residing at Trenton, in the county of Mercer and State of New Jersey, have invented new and useful Improvements in Chimney-Cowls, of which the following is a specification.

This invention relates to that type of chimney-cowl wherein a horizontal flue surmounts a tubular flue rising from a chimney and is provided at its end portions with vertical flues which serve as fenders or shields to prevent air-currents freely entering the horizontal flue and creating downdrafts in the chimney.

The objects of my invention are to improve chimney-cowls of the character referred to; to simplify their construction and enable them to be conveniently and rapidly manufactured from plates of sheet metal without the necessity of the more or less difficult seaming together, which is essential where horizontal and vertical cylinder-sections of piping are joined together, and to provide a novel, simple, and efficient sheet-metal chimney-cowl of economical construction which will create strong drafts in a chimney and effectually prevent down-currents therein.

These objects are accomplished in the manner and by the means hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1 is a perspective view of my improved chimney-cowl, and Fig. 2 is a vertical central sectional view of the same.

In order to enable those skilled in the art to make and use my invention, I will now describe the same in detail, reference being made to the accompanying drawings, wherein the numeral 1 indicates a vertical sheet-metal pipe designed to be connected at its lower end with a chimney and supporting at its upper end a semicylinder 2, on the extremities of which are respectively mounted vertical semicylinders 3 and 4. The semicylinders are each made from a plate of sheet metal suitably bent into semicircular form in cross-section. The pendent side flanges 5 of the horizontal semicylinder 2 embrace the upper

end of the vertical pipe 1 and are rigidly connected therewith at diametrically opposite points through the medium of rivets 6. The side flanges 7 and 8 of the semicylinders 3 and 4 embrace the extremities of the horizontal semicylinder 2 and are rigidly connected therewith by rivets 9 and 10. The vertical semicylinders 3 constitute air fenders or shields for the open ends of the horizontal semicylinder 2, and the latter constitutes an air fender or shield for the upper end of the vertical pipe 1. The construction of the air fenders or shields in the form of semicylinders not only effectually prevents the free passage of air-currents horizontally into the semicylinder 2 or vertically into the pipe 1, but affords ample and large space for the free passage of smoke from the chimney and pipe 1 through the unobstructed spaces between the said flanges of the several semicylinders, as will be obvious. The construction of the air fenders or shields in the form of semicylinders also enables these parts to be firmly and securely connected and supported through the medium of rivets, which is effected, as before stated, by riveting the side flanges of the horizontal cylinder to the upper end of the pipe 1 and the side flanges of the vertical semicylinders to the ends of the horizontal semicylinders. This construction and arrangement of parts enable the chimney-cowl to be economically and rapidly manufactured and entirely avoids the difficult and more or less expensive seaming which is essential in that class or type of chimney-cowl wherein cylinder-sections or piping are joined together.

The horizontal semicylinder directs the smoke rising from the pipe 1 toward the vertical semicylinders 3 and 4 and permits down-flow of the smoke immediately that the latter merges from the upper end of the vertical pipe. The semicylinders riveted to the ends of the horizontal cylinder permit the smoke to ascend or descend and also to escape laterally between their side flanges at points above the cylinder 2 and below the edges of the side flanges thereof, all in such manner that while the free escape of the smoke is permitted and

a strong draft is created in the chimney all down currents or drafts in the chimney are effectually prevented.

Having thus described my invention, what I claim is—

1. A chimney-cowl, consisting of a vertical pipe, a horizontal semicylinder having its side flanges overlapping and secured to the upper end of the pipe, and two vertical semicylinders which, respectively, have their side flanges overlapping and secured to the extremities of the horizontal semicylinders, substantially as described.

2. A chimney-cowl, consisting of a vertical

pipe, a horizontal semicylinder having its side flanges embracing and riveted to the upper end of the pipe, and two vertical semicylinders which, respectively, have their side flanges embracing and riveted to the extremities of the horizontal semicylinder, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ALEXANDER DICKEY.

Witnesses:

SYMMES H. READING,
MARY E. LAWRENCE.