

(No Model.)

C. E. S. DUNLEVY.  
CHIMNEY.

No. 515,860.

Patented Mar. 6, 1894.

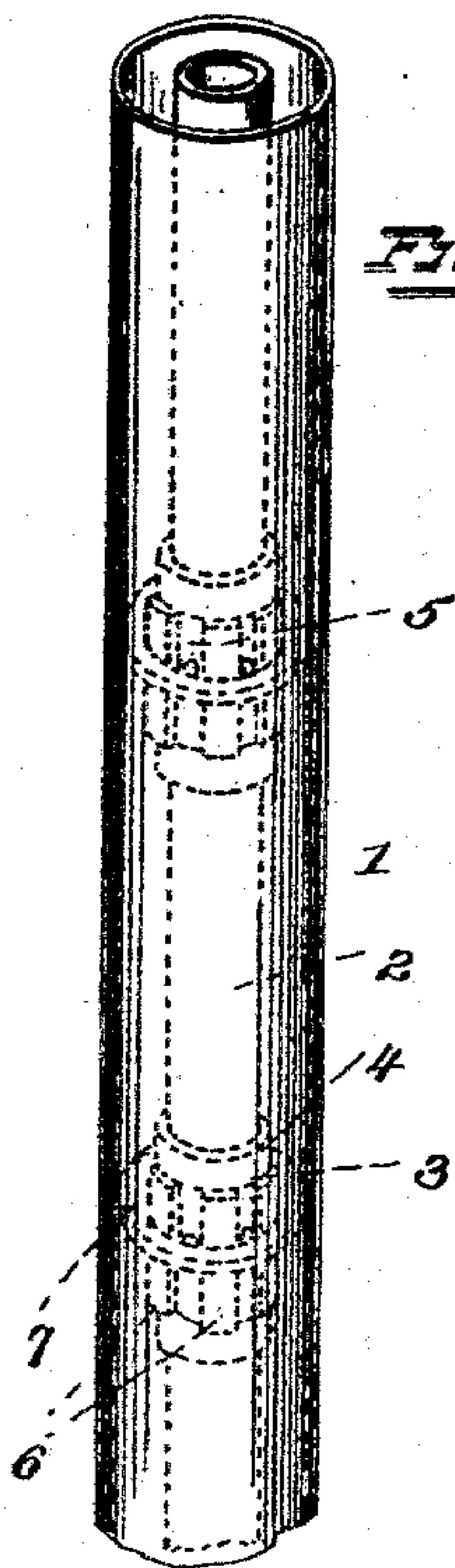


Fig. 2.

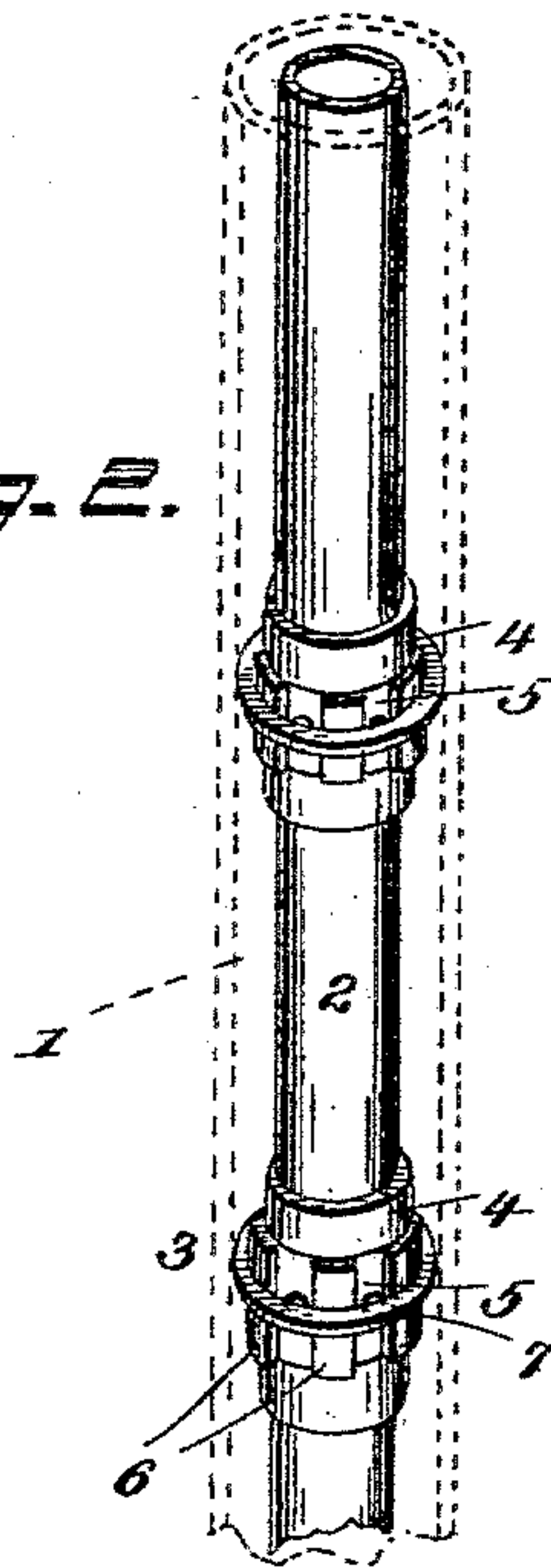


Fig. 3.

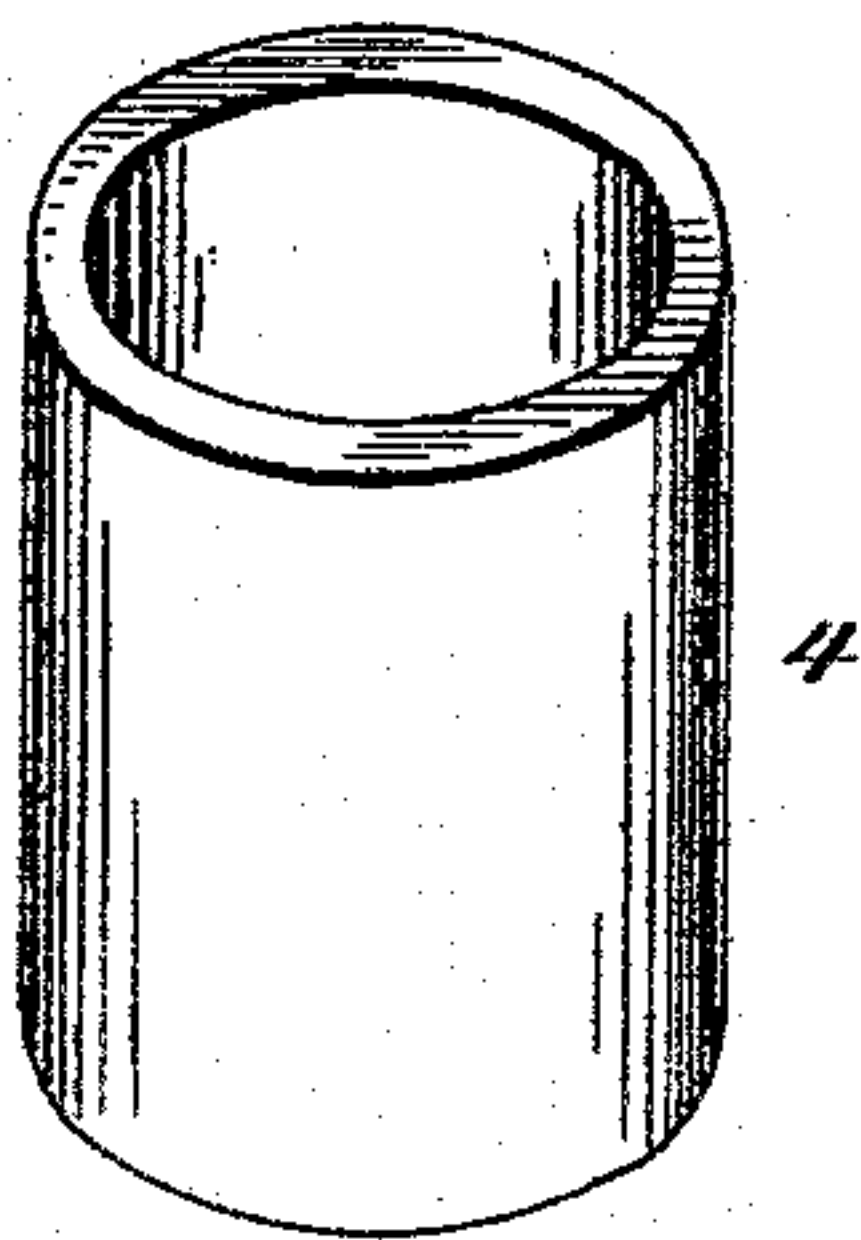


Fig. 4.

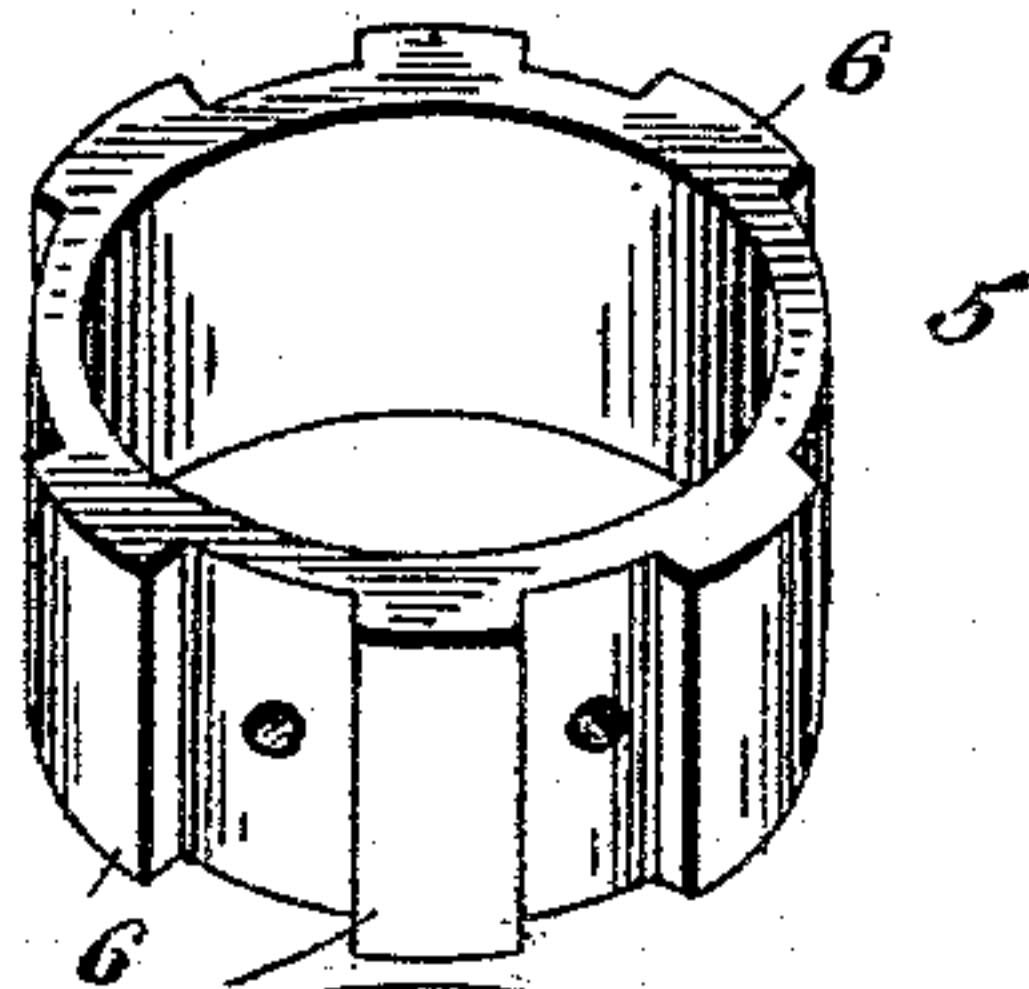


Fig. 5.

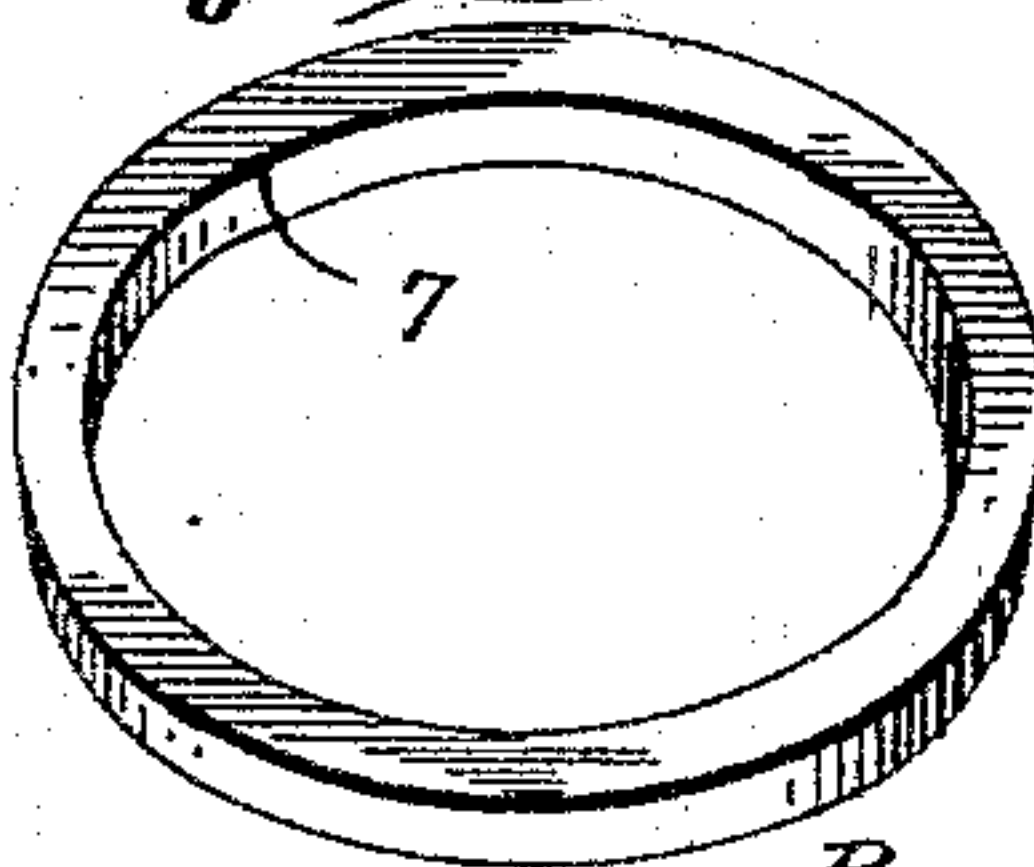
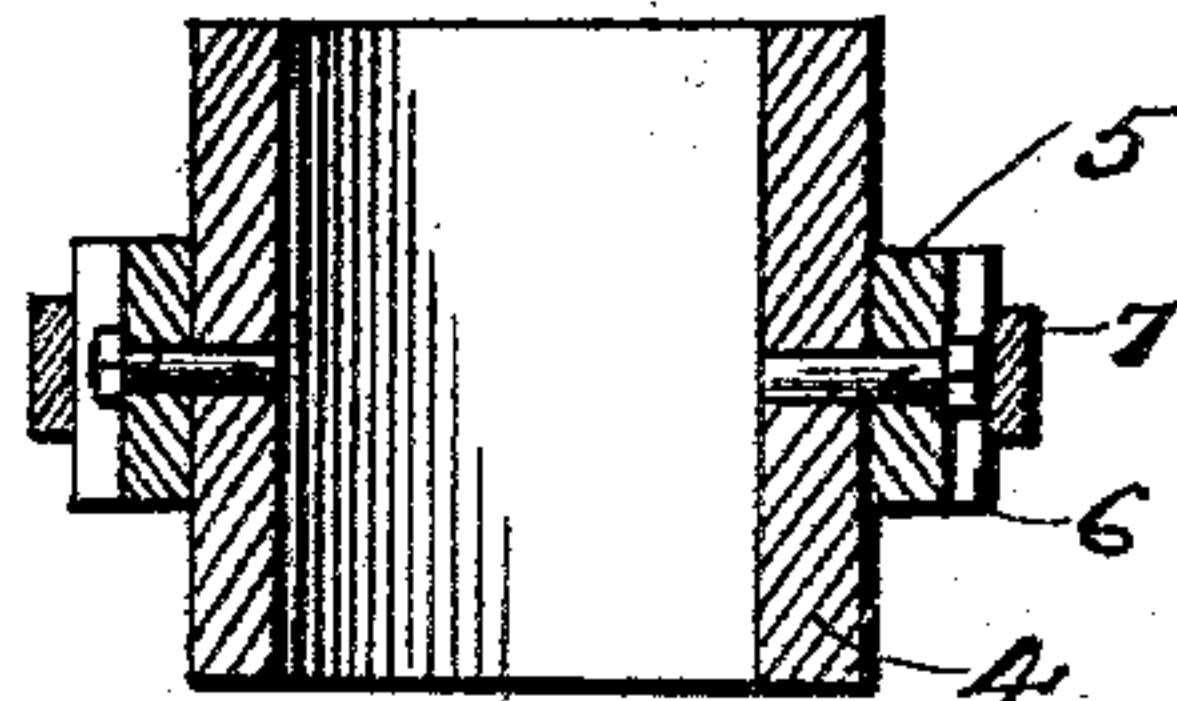


Fig. 6.



Witnesses  
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his Attorney



# UNITED STATES PATENT OFFICE.

CHARLES E. S. DUNLEVY, OF OAKLAND, CALIFORNIA.

## CHIMNEY.

SPECIFICATION forming part of Letters Patent No. 515,860, dated March 6, 1894.

Application filed September 25, 1893. Serial No. 486,436. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES E. S. DUNLEVY, a citizen of the United States, and a resident of Oakland, in the county of Alameda and State of California, have invented certain new and useful Improvements in Chimneys; 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.

This invention relates to fire proof chimneys which combine therewith a ventilating construction and arrangement of parts, and has for its object to so arrange the parts of a chimney that an absolute fire proof smoke conduit will be formed as well as an air inlet or ventilator.

With these and other objects in view, the invention consists of the construction and arrangement of parts, which will be more fully hereinafter described and claimed.

In the drawings: Figure 1 is a perspective view of a chimney, embodying the invention and showing the internal construction in dotted lines. Fig. 2 is a similar view of the internal part of the chimney in full lines, and the outer portion in dotted lines. Figs. 3, 4, and 5, are detail perspective views of part of the internal construction showing the manner of making the joint. Fig. 6 is a transverse vertical sectional view of the parts shown by Figs. 3 and 4 joined together.

Similar numerals of reference are employed to indicate corresponding parts in the several figures.

Referring to the drawings, the numeral 1 designates an outer galvanized iron pipe of suitable diameter and dimension, which may be disposed either horizontally or vertically and which surrounds a terra cotta or analogous pipe 2, made up of sections which are connected by joints 3. The joint comprises a band of galvanized iron 4 which closes over the meeting ends of the sections of the terra cotta

pipe, the intervening space between the terra cotta pipe and said band being filled with cement. Riveted to the said band 4 is a narrow collar 5 having plates 6 thereon, said collar being located in the center of said band 4, and the plates 6 have an outer band 7 connected thereto and fitting closely against the inner surface of the outer galvanized iron pipe 1. It will be observed that the plates secured to the collar form with the outer band intervening ventilating spaces through which the air may pass the length of the pipe, and at the same time a support is formed for the terra cotta pipe to hold the latter in the center of the galvanized iron pipe and at the same time reinforce the joint made between the sections of said terra cotta pipe.

The device is easily and readily put up and is exceptionally convenient and useful and it will be readily understood that many minor changes in the construction and arrangement of the several parts might be made and substituted for those shown and described without in the least departing from the nature or spirit of the invention.

Having thus described the invention, what is claimed as new is—

In a chimney of the class described, the combination of an outer galvanized iron pipe, an inner terra cotta pipe, and a joint to said terra cotta pipe and consisting of an inner band, a collar riveted to said band, having plates thereon at intervals, and an outer band surrounding and riveted to the said plates and closely fitting the galvanized iron pipe, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

CHARLES E. S. DUNLEVY.

Witnesses:

LEON KALAR,  
J. S. CARR.