A. HERCER.

VENTILATING PIPE.

APPLICATION FILED APR. 6, 1916.

1,214.033. Patented Jan. 30, 1917.

FIG. 1.

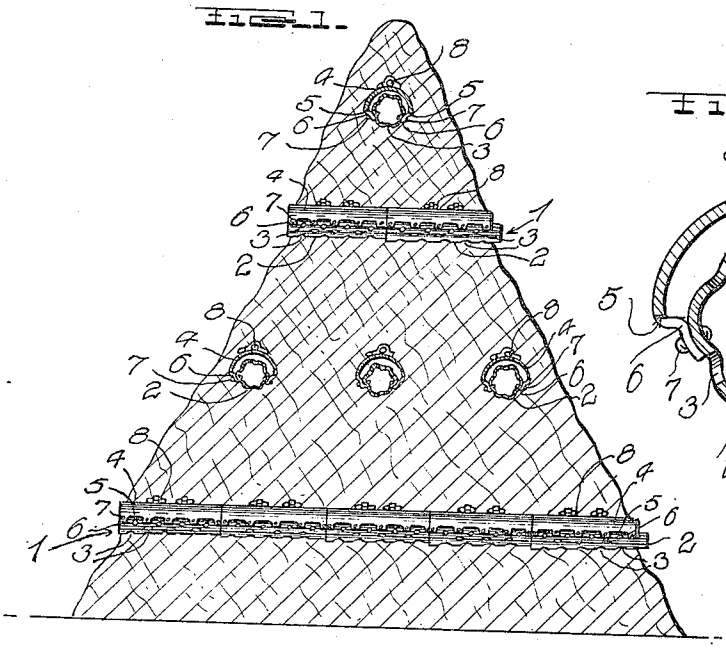


FIG. 4.

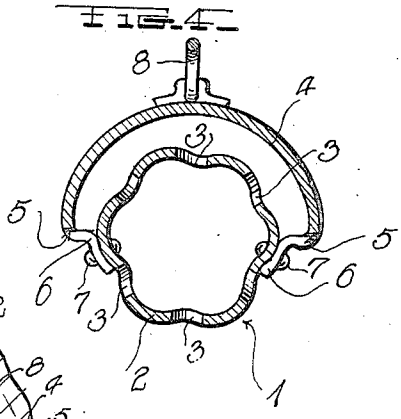


FIG. 2.

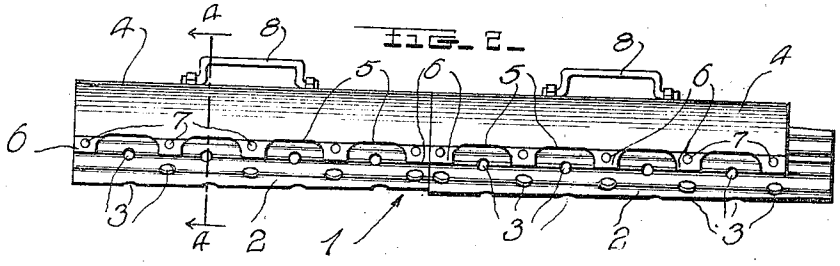
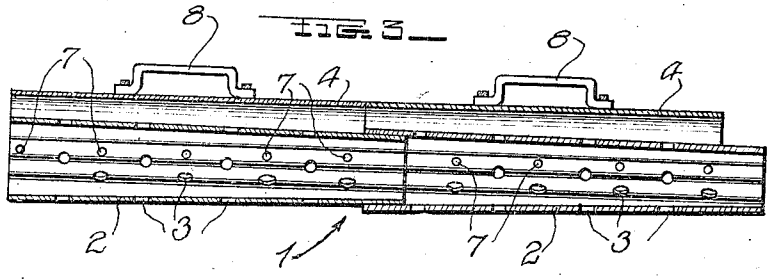


FIG. 3.



Witness

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VENTILATING-PIPE.

1,214,033. Specification of Letters Patent. Patented Jan. 30, 1917.

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To all whom it may concern:

Be it known that I, ANTON HERCER, a citizen of the United States, residing at Springvalley, in the county of Bureau and State of Illinois, have invented certain new and useful Improvements in Ventilating-Pipes; and I do 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.

My invention relates to improvements in devices for ventilating stacks or cribs of grain, stacks of hay or the like, piles of coal, etc.

The main object of the invention is to provide a perforated pipe formed of a number of sections which may be connected at will and suitably disposed in the stack or pile to afford a free circulation of air therethrough, and another object is to provide each section of the pipe with a hood spaced outwardly therefrom to prevent the passage of material through the uppermost perforations into the pipes.

With the foregoing general object in view, the invention resides in the construction and arrangement of parts to be hereinafter fully described and claimed, the descriptive matter being supplemented by the accompanying drawing which constitutes a part of this application and in which:

Figure 1 is a sectional view through a hay stack showing the application of the invention thereto; Fig. 2 is an enlarged side elevation of two of the sections of the ventilating pipe; Fig. 3 is a central vertical longitudinal section thereof; and Fig. 4 is a vertical transverse section taken on the plane of the line 4—4 of Fig. 2.

In specifically describing the construction shown in the drawings above briefly described, similar characters will be placed on corresponding parts throughout the several views, and reference will be herein made to the numerous elements by their respective indices. To this end, the numeral 1 designates the improved ventilating pipe which is constructed of a number of sections 2 of any desired length, said sections being preferably corrugated longitudinally and having perforations 3. As shown most clearly in Fig. 3, one end of each section 2 is of slightly less diameter than the other end thereof, in order to allow adjacent sections to so telescope as to form effective joints therebetween. A suitable number of the sections 2 will be connected and disposed in any desired manner through the stack or pile of material to be ventilated, and in order that none of this material be allowed to pass into the sections 2 and clog the same, each of said sections is provided with a hood 4.

The hood 4 of each section terminates flush with one end thereof, but is spaced a suitable distance from the smaller end of said section to allow it to be received in the larger end of an adjacent section. Thus, the hoods of adjacent sections will closely abut each other as shown in Figs. 2 and 3. Each hood 4 is preferably constructed of a single sheet of metal bent into the form of an enlongated arch extending over its respective section 2, the edges of said hoods being formed with notches 5 for allowing a free circulation of air, the material between said notches constituting attaching ears 6 which extend inwardly and downwardly and are secured by rivets or the like 7 to the opposed sides of the pipe sections.

By constructing and arranging the hoods as shown and described, they will effectively prevent the entrance of material into the ventilating pipe through the uppermost perforations therein, thereby preventing such material from obstructing the passage of air through the device. The hoods, however, will not obstruct the free passage of air through the upper perforations in view of the fact that they are spaced from the pipe sections and communicate with the material on the exterior thereof through the notches 5.

By the use of the improved device, sweating of stacks or piles of numerous materials will not take place, and thus the numerous undesirable results following from such sweating will be prevented.

The device is particularly well adapted for use in corn cribs, grain elevators, stacks of hay or the like, and piles of coal. It is to be understood, however, that its use need not be restricted, but that it may be applied wherever desirable. Furthermore, although each of the pipe sections and its hood are preferably constructed as shown and described and equipped with a carrying handle 8, numerous changes may be made within the scope of the invention as claimed

without sacrificing the advantages thereof, and should it be desirable, the handles may be dispensed with.

I claim:

A ventilating pipe having perforations extending throughout its circumference, and an arched hood extending longitudinally along one side of the pipe in spaced concentric relation thereto, the edges of said hood being bent inwardly and formed with longitudinally spaced notches for permitting free circulation of air, said edges being secured in contact with the pipe between said notches.

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

ANTON HERCER.

Witnesses:
A. H. IMHOF,
J. C. SETTERLY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."