A. A. FAIR.

VENTILATOR FOR CORN CRIBS AND THE LIKE.

APPLICATION FILED JULY 10, 1916. RENEWED MAY 6, 1918.

1,286,265. Patented Dec. 3, 1918.

FIG. 1

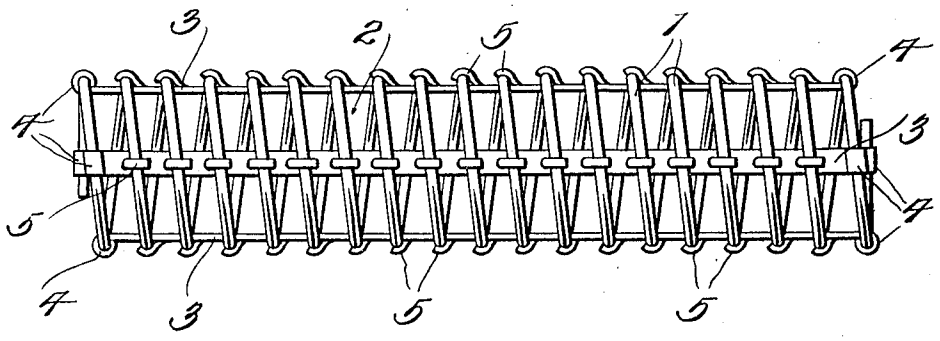


FIG. 2

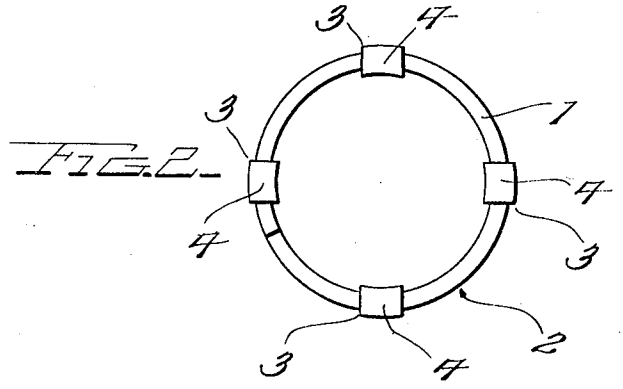
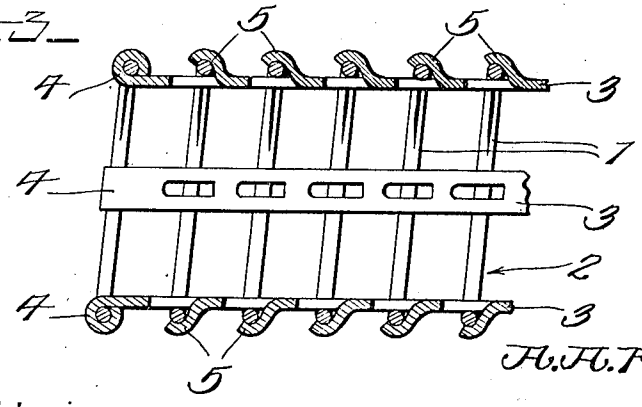


FIG. 3



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UNITED STATES PATENT OFFICE.

ANDREW A. FAIR, OF SIOUX CITY, IOWA.

VENTILATOR FOR CORN-CRIBS AND THE LIKE.

1,286,265. Specification of Letters Patent. Patented Dec. 3, 1918.

Application filed July 10, 1916, Serial No. 108,390. Renewed May 6, 1918. Serial No. 232,940.

To all whom it may concern:

Be it known that I, ANDREW A. FAIR, a citizen of the United States, residing at Sioux City, in the county of Woodbury and State of Iowa, have invented certain new and useful Improvements in Ventilators for Corn-Cribs and the like; 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 is an openwork tube or tile for ventilating corn cribs to prevent the corn from sweating and fermenting, the device being equally well adaptable, however, for use in hay stacks and mows and wherever ventilating of a pile or stack of any material is required.

The object of the invention is to provide an extremely simple device of the class set forth which may be easily and inexpensively manufactured and marketed, yet regardless of these characteristics will be highly efficient and durable.

With the foregoing general object in view, the invention resides in certain novel features of construction and in unique combinations 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 side elevation of the improved tile;

Fig. 2 is an end elevation thereof; and

Fig. 3 is a central longitudinal section.

The invention consists of a plurality of axially alined ring-like ribs 1 which in the present embodiment of the invention are formed by the numerous convolutions of a cylindrical coil 2 of heavy wire. The numerous ribs or convolutions 1 are connected by means of tie bars 3 whereby rigidity is imparted to the entire tile and the numerous ribs thereof are prevented from spreading. The tie bars 3 are preferably of rather thin gage sheet metal with their ends 4 bent around the endmost convolutions or ribs, said bars being provided at spaced intervals with claws 5 which are clenched around the ribs, these claws being preferably formed by striking them from the bars 3.

By constructing the improved tile in the manner described and shown it is obvious that it may be manufactured easily and inexpensively, yet that it will be an efficient and durable article for ventilating grain bins or cribs, hay mows or stacks, coal bunkers and in fact is applicable wherever ventilation of a pile of material is necessary. For convenience in handling the tiles, they preferably will be of approximately two feet in length, but their sizes may vary, as occasion may demand.

In use pipe lines will be formed of the tiles and will extend in suitable directions through the material to be aerated.

In the foregoing I have described the preferred form of the invention and have illustrated the same in the accompanying drawing, but it is to be understood that within the scope of the invention as claimed, numerous minor changes may well be resorted to.

I claim:

1. A ventilating tile of the class described composed of a coil of heavy wire, and a plurality of longitudinally extending metal tie bars contacting with the convolutions of said coil and having their ends bent around the endmost thereof, said bars having claws struck laterally therefrom and clenched around the other convolutions to prevent spreading thereof.

2. A ventilating tile comprising a plurality of stiff axially alined ring-like ribs, and a plurality of tie bars extending longitudinally of the tile and in contact with said ribs, said bars having claws struck laterally therefrom and clenched around said ribs to prevent spreading thereof.

3. A ventilating tile for stacks of material comprising a coil of stiff wire with its convolutions spaced sufficiently close to prevent said material from passing therethrough, and a plurality of tie bars extending longitudinally of said coil in contact with the convolutions thereof, said bars having claws struck laterally therefrom and clenched around said convolutions to hold them in spaced relation.

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

ANDREW A. FAIR.

Witnesses:
C. T. MCCLINTOCK,
ALVAH L. CHESEBRO.

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