

(No Model.)

R. L. CUMNOCK.

TRUNK FOR USE WITH COTTON PICKERS, &c.

No. 478,990.

Patented July 19, 1892.

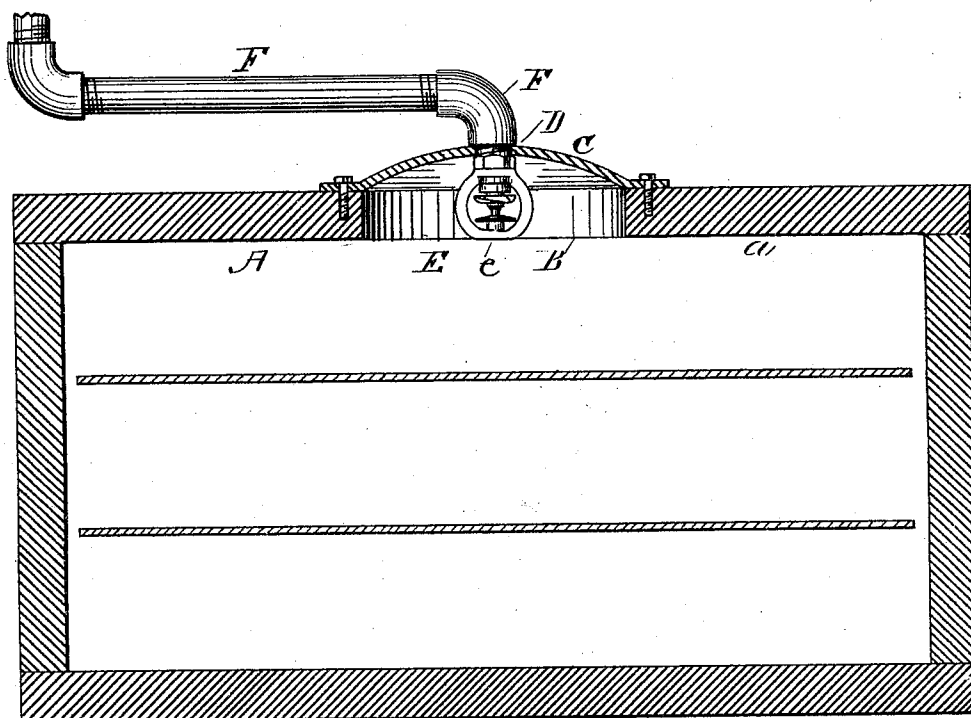


Fig. 1.

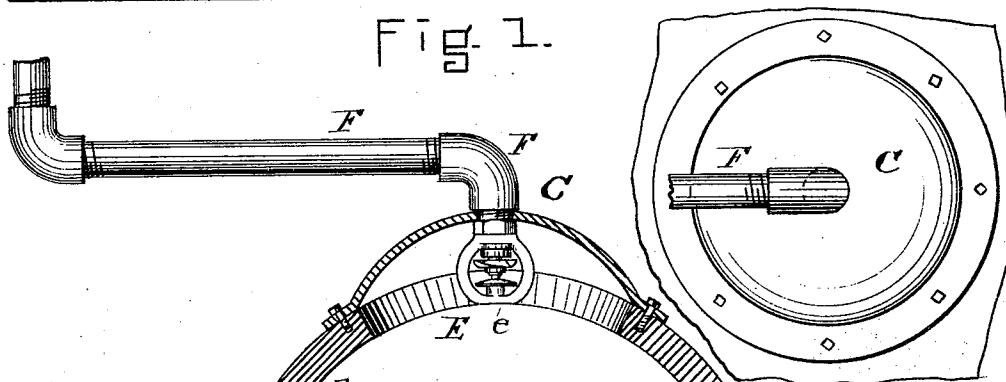


Fig. 2.

Fig. 3.

WITNESSES.

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UNITED STATES PATENT OFFICE.

ROBERT L. CUMNOCK, OF HENDERSON, KENTUCKY.

TRUNK FOR USE WITH COTTON-PICKERS, &c.

SPECIFICATION forming part of Letters Patent No. 478,990, dated July 19, 1892.

Application filed March 31, 1892. Serial No. 427,167. (No model.)

To all whom it may concern:

Be it known that I, ROBERT L. CUMNOCK, of Henderson, Henderson county, Kentucky, have invented a new and useful Improvement in Trunks for Use with Cotton Pickers and Conveyers and Covered Machines of Various Kinds, of which the following is a specification.

In all trunks or covered passages of small cross area for use in conveying cotton or other fibers or dust, flour, or meal and the like, whether the means of conveying be mechanical or pneumatic, there is great danger from fire.

My invention relates to a mode of attachment of "automatic sprinklers," so called, to such conveyers, whereby the sprinklers will be efficient in case of fire and yet will not interfere in any way with the operation of the conveyer nor have their action interfered with by the adjacent parts of the conveyer.

My invention will be understood by reference to the drawings, in which—

Figure 1 is a cross-section of a rectangular conveyer to which the sprinkler is applied in the manner invented by me. Fig. 2 is a plan showing the top of such a conveyer, and Fig. 3 is a cross-section of a tubular conveyer to which a sprinkler is applied.

In each case A A are the walls of the conveyer. In the top of the conveyer is cut a hole B.

C is a saucer or dome-shaped piece of cast-iron, wood, or other material, which forms a cover for the hole B. Through this dome-shaped piece is passed the neck D of the automatic sprinkler E, for which it forms a hanger.

F is the supply-pipe.

The disk or saucer C is so proportioned with respect to the length of the sprinkler and the thickness of the conveyer-wall that it will form a cavity, in which the sprinkler is so hung that its innermost point—namely, the point e—shall be in substantially the same plane as the inner surface a of the adjacent wall of the conveyer. Thus the sprinkler will not interfere at all with the free way of the conveyer, being hung in a cavity out of the way.

In practice the hole B should be of such diameter that its walls will not interfere materially with the distribution of the sprinkler when in action in case of fire. Ordinarily ten inches is a sufficient diameter. The dome-shaped sprinkler-hanger should be tightly fitted to the neck of the sprinkler D where it passes through it and also be tightly bolted to the top of the conveyer in order to prevent leakage of the material being conveyed through the conveyer or of air if the conveyer be pneumatic.

The opening B may be made in one of the other walls of the conveyer, if thought best, and in that case a sprinkler should be used of a kind suitable to throw the water to the best advantage.

Instead of a saucer or dome-shaped hanger any other form or hanger may be used which will form the required cavity to contain the sprinkler; but I have found the shape shown to be the best in most cases, the point being, however, to suspend the sprinkler within the confined area of the conveyer-trunk and yet out of the way of the moving material.

What I claim as my invention is—

1. A conveyer-trunk having an opening closed on the outside by a cap, in combination with an automatic sprinkler having its head or rose contained within said opening and cap, all as set forth.

2. A conveyer-trunk having an opening closed on the outside by a dome-shaped removable cap, in combination with an automatic sprinkler having its head or rose secured to the cap and contained within said opening and cap, all as set forth.

3. The sprinkler-hanger above described, consisting of a dome-shaped piece having a hole through its center, through which a sprinkler may be hung and adapted to be suitably attached at its edges to the outer wall of the conveyer-trunk, all as set forth.

In testimony whereof I have hereunto subscribed my name.

ROBT. L. CUMNOCK.

Witnesses:

WM. R. MARRS,
HAMILTON STITES.