Sept. 30, 1924.

1,510,265

A. J. FILKINS

CAR CHIMNEY

Filed Feb. 14, 1923

FIG. 1

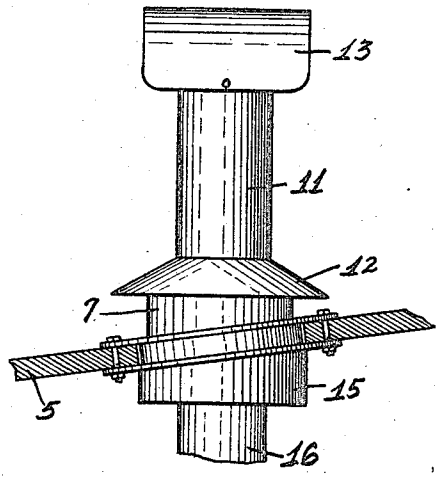
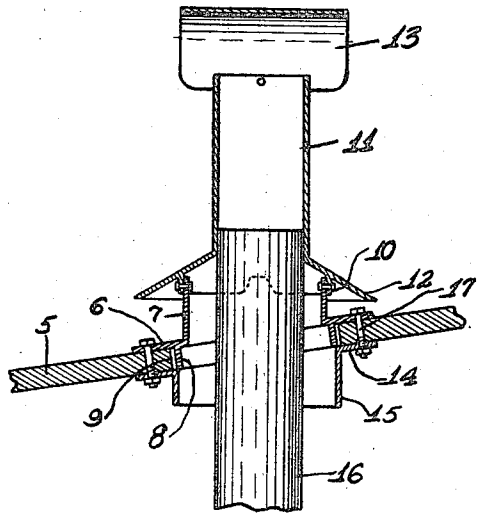


FIG. 2



INVENTOR

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By Gerrell, Hopkins & McClain. Attys

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UNITED STATES PATENT OFFICE.

ARTHUR J. FILKINS, OF RIVERSIDE, ILLINOIS.

CAR CHIMNEY.

Application filed February 14, 1923. Serial No. 618,905.

To all whom it may concern:

Be it known that I, ARTHUR J. FILKINS, a citizen of the United States, residing in Riverside, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Car Chimneys, of which the following is a specification.

My invention relates to smoke chimneys and has particular reference to a smoke chimney applicable to cars such as cabooses, work cars and the like, adapted to serve in the capacity of a safety device to prevent heating of the roof structure of the car through which the pipe passes and which will serve the additional function of a ventilator.

An object of my invention is to provide a car smoke chimney of the character described which is simple in construction, economical to make and apply, and which is efficient for the purposes described.

Another object of the invention is to provide a smoke chimney for car roofs which is adapted to be made of cast iron and which may readily be assembled without the necessity for machine work on the various parts, and at the same time adapted to permit ready assembly of the parts in operative relation.

Generally speaking I carry out the preferred embodiment of my invention by providing a smoke chimney for car roofs having a cast iron member provided with a flanged portion arranged at an angle to rest against the outer side of the car roof and which is provided with an inwardly directed collar to lie within the opening through the roof for protecting the same against heat, and the provision of another collar having an angularly disposed flange for adjustment to the under side of the car roof and with a downwardly directed collar adapted to serve as a continuation of the opening defined by the collar of the first member, the parts arranged so that joint between the two flange members may be ground for the purpose of safety.

The above recited and other objects of my invention will be apparent from the following description and drawings and will be particularly pointed out in the appended claims.

In the drawings:

Figure 1 is an elevational view of the preferred embodiment of my invention as applied to a car roof, the car roof being shown only partially and in section; and

Figure 2 is a vertical sectional view through Figure 1, showing details of construction.

The first flange member, that is the one adapted to be attached to the outer portion of the car roof 5, comprises an angularly disposed flange 6, the inclination of which is made to correspond to the slope of the car roof, an upstanding circular portion 7, the axis of which portion is perpendicular, and a downwardly directed collar 8 which is the portion adapted to project through the opening 9 in the car roof 5 for protecting the same against fire hazards. The axis of the collar 8 is disposed at an angle to the axis of the collar 7 and is perpendicular to the plane of the flange 6. Attached by means of bolts or other members 10 to the upper part of the collar 7 is a chimney 11 which is cylindrical throughout the greater portion of its length and which has a downwardly extended skirted portion 12 for ventilating purposes. The upper end of the chimney 11 is covered by a cap 13 which is substantially U shaped in cross section and inverted as to position. Such caps are old and I do not claim same as comprising a part of my invention.

The second flange member of my invention comprises an angularly disposed annular flange 14, the inclination of which corresponds to that of the flange 6, and which is adapted to be secured to the under side of the car roof 5 about the opening 9 therethrough. Integrally formed with the flange 14 is a downwardly directed collar portion 15, the axis of which is perpendicular and in angular relation to the plane of the flange 14. The joint between the flange 14 and the lower edge of the collar 8 of the first member is ground to provide an air tight joint therebetween to eliminate fire hazards.

The collars 7 and 15 are in diameter greater than the diameter of the chimney 11, so that a stove pipe 16 may be passed upwardly through the collars 7 and 15 and into the lower end of the chimney 11 for purposes well understood.

The second flange member is secured in position against the under side of the car roof by means of bolts 17, or similar fastenings, passing through registering apertures

in the flanges 6 and 14 and the car roof. It will be noted that the opening through the car roof is completely protected on its top, bottom and sides by metallic coverings, thereby eliminating any likelihood of the car roof catching fire.

By reason of the enlarged diameters of the collars 7 and 15 and the connection of the collar 7 with the skirted member 12 of the chimney, the structure serves as a ventilator as well as a smoke chimney.

While I have described more or less precisely the details of construction of my invention, I do not wish to be understood as limiting myself thereto, as I contemplate changes in form and the proportion of parts and substitution of equivalents as circumstances may suggest or render expedient, without departing from the spirit of my invention.

I claim:

1. The combination with a car roof of a metal chimney adapted to be secured to the outside of said roof and having a collar passing downwardly through the roof opening for receiving a stove pipe and maintaining the same in spaced relation with respect to said opening, a protector for the inner surface of said opening including a metal flanged collar having the flange adapted for contacting a collar on the chimney, and means passing through the flanged portion of said second member and said chimney for fastening the same in position, said protector having a collar portion extending downwardly from the roof a short distance and positioned eccentrically with the axis of the chimney.

2. The combination with a car roof of a metallic chimney adapted to be secured to said roof and having a collar extending into the roof opening for receiving a stove pipe, said collar being of greater diameter than said pipe, and a protector for the inner side of the car roof comprising a metal member with a flange disposed against said collar and a collar portion extending below the roof and spaced from said chimney.

3. The combination with a car roof of a metal chimney adapted to be secured to the outside of said roof and having a collar passing downwardly through the roof opening for receiving a stove pipe and maintaining the same in spaced relation with respect to said opening, a protector for the inner surface of said opening including a metal flanged collar having the flange adapted for contacting a collar on said chimney, and means passing through the flanged portion of said second member and said chimney for fastening the same in position, said protector having a collar portion extending downward from the roof a short distance with the axis of the collar portion disposed at an angle to the plane of the flange of the protector.

Signed at Chicago, Illinois, this 9th day of February, 1923.

ARTHUR J. FILKINS.