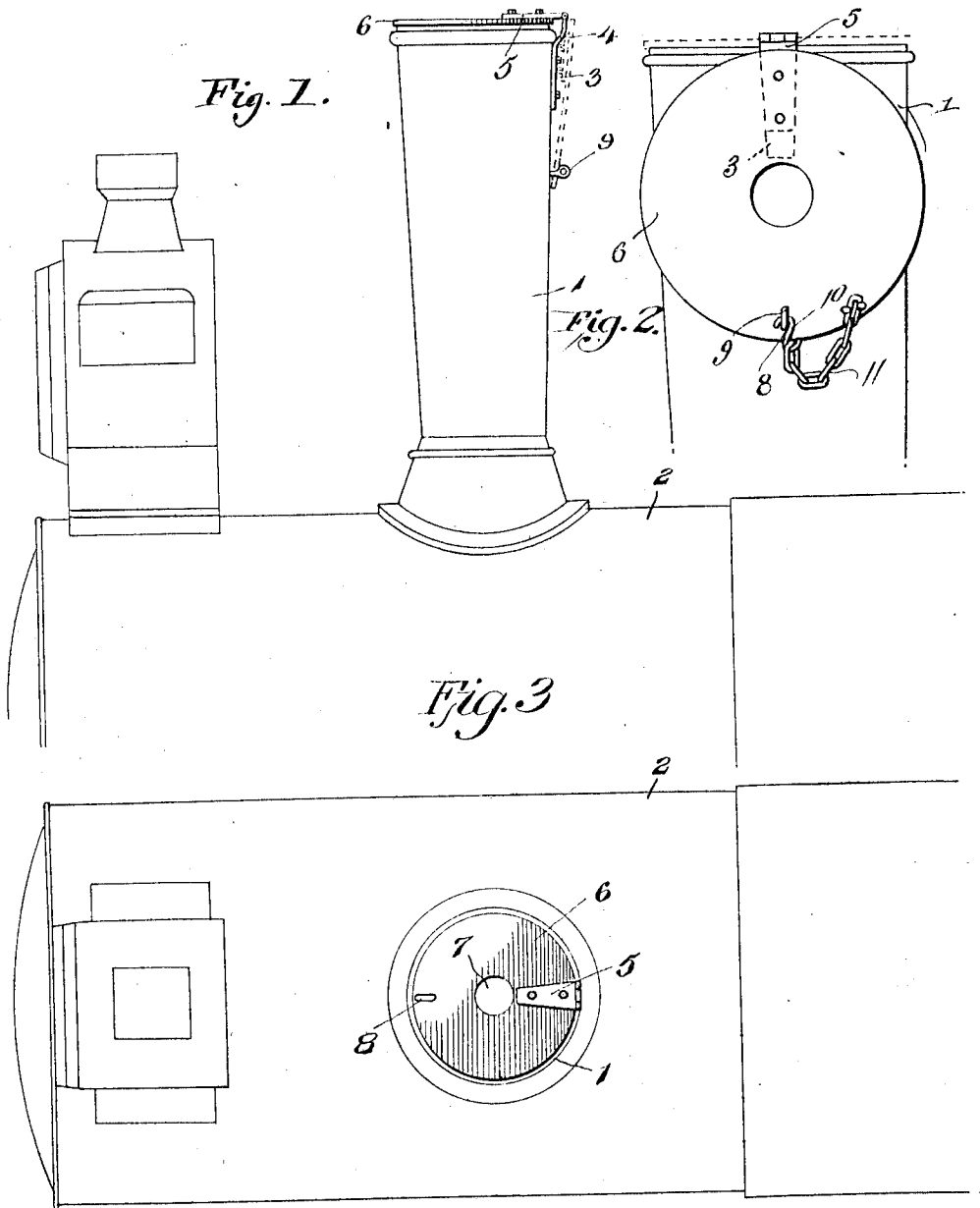


W. H. RUSSELL.  
 LOCOMOTIVE STACK COVER.  
 APPLICATION FILED FEB. 25, 1911.

1,055,232.

Patented Mar. 4, 1913.



Inventor

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Witnesses  
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# UNITED STATES PATENT OFFICE.

WILLIAM H. RUSSELL, OF STOCKTON, CALIFORNIA.

LOCOMOTIVE-STACK COVER.

1,055,232.

Specification of Letters Patent.

Patented Mar. 4, 1913.

Application filed February 25, 1911. Serial No. 610,829.

*To all whom it may concern:*

Be it known that I, WILLIAM H. RUSSELL, a citizen of the United States, residing at Stockton, in the county of San Joaquin and State of California, have invented new and useful Improvements in Locomotive-Stack Covers, of which the following is a specification.

This invention relates to smoke stack covers and the object of the invention is the provision of a simple and efficient detachable cover for smoke stacks of locomotives and the like, whereby the stack may be readily covered when the locomotive is not in use so that the heat therein will not be too rapidly dissipated. When the stack is left open when the locomotive is taken into the roundhouse the cooling is somewhat too rapid so that a consequent contraction of the parts frequently causes leaks. Again it is frequently desirable to pull the fires in a locomotive for repairs and then immediately fire up again. If the stack is covered the heat of the locomotive is not dissipated as would be the case were the stack left wide open. The cover therefore holds the heat and permits steam to be gotten up again in a comparatively short time.

Further objects of the invention will appear as the following specific description is read in connection with the accompanying drawings, which form a part of this application, and in which:—

Figure 1 is a side elevation of a portion of the boiler of a locomotive, showing my improved stack cover in applied position. Fig. 2 is a front elevation of a portion of the smoke stack, showing my improved stack cover applied in inoperative position. Fig. 3 is a top plan view of Fig. 1, the cover being shown in applied position.

Referring more particularly to the drawings, 1 represents a locomotive stack which is mounted upon the boiler 2 in the usual manner. Secured preferably to the rear side of the smoke stack by bolts or otherwise is a hinge member 3 having a vertically extending offset portion 4 to which is pivotally secured the opposite hinge member 5. To the hinge member 5 is secured a circular lid 6 preferably having a hole 7 of small diameter in its center. The forward side of the plate is provided with an elongated slot 8 adapted to receive an eye bolt 9 mounted upon the side of the stack in such a manner

as to pass through the slot and receive a hook 10 carried upon the end of the chain 11 which has its opposite end riveted to the lid, thus the lid is effectually locked in open position so as to prevent rattling and flapping around. By the chain 11 being secured to the inner side of the lid, the same is permitted to extend down within the stack when the lid is in use and serves to assist in retaining the cover in a closed position, and also serves, as above stated, to lock the cover positively in its open position.

The lid shown in Figs. 1 to 3 is so attached to the hinge member 5 by bolts that it may be readily disconnected when desired.

In some instances it is found more effective to dispense with the aperture in the lid and in fact this aperture is only used when the tubes or fire box are leaking so that there will be an opening for the escape of steam, whereby it will not be forced back through the door.

Having thus described the invention, what I claim as new is:—

In combination with a smoke stack, a flat circular closure plate hinged at its edge to the stack and provided with a central aperture, said plate being provided with a slot located adjacent its peripheral edge at a point diametrically opposite said hinge, an eye bolt secured to the side of the stack at a point below and in vertical alinement with said hinge, said eye bolt being adapted to pass through said slot when the plate is in open position, a chain permanently secured at one end to the under side of said plate, at a point adjacent the peripheral edge thereof and in spaced relation and to one side of said slot, and a hook carried by the free end of the chain and adapted to be passed through said eye bolt to secure the outer face of the plate in engagement with one side of said stack, and holding the same in open position, and said chain being located on the inside of said stack when the plate is in closed position so as to assist in holding the plate in closed position against accidental opening.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM H. RUSSELL.

Witnesses:

HARRY E. PITMAN,  
J. H. DOYLE.