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Patented Apr. 24, 1900.

N. A. CHRISTENSEN.

BOX OR HOUSING FOR COMPRESSORS FOR AIR BRAKE SYSTEMS.

(Application filed Aug. 21, 1899.)

(No Model.)

Fig. 1

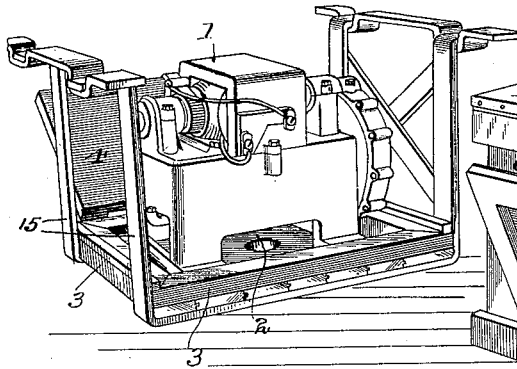


Fig. 2

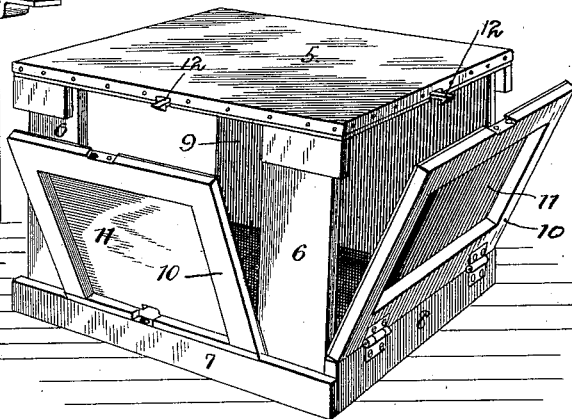
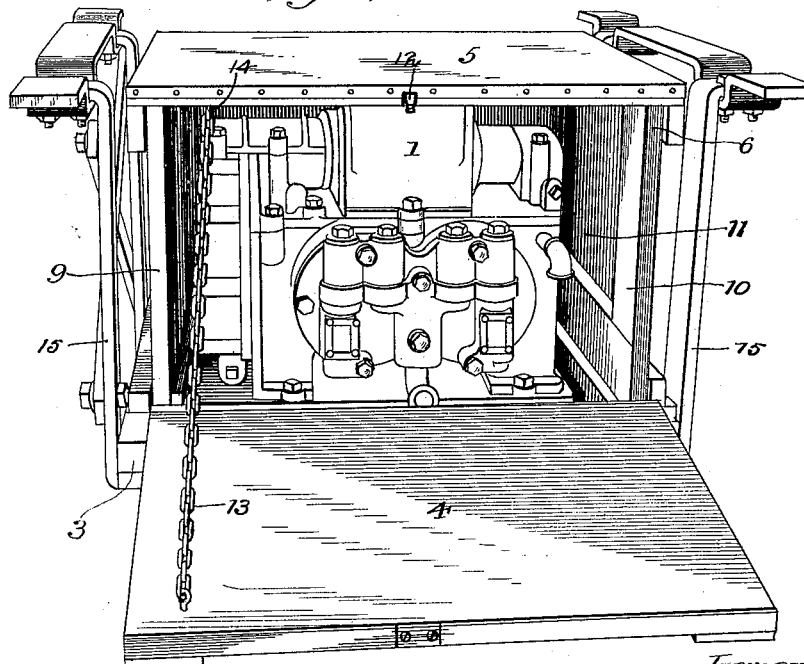


Fig. 3



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# UNITED STATES PATENT OFFICE.

NIELS ANTON CHRISTENSEN, OF MILWAUKEE, WISCONSIN.

BOX OR HOUSING FOR COMPRESSORS FOR AIR-BRAKE SYSTEMS.

SPECIFICATION forming part of Letters Patent No. 648,145, dated April 24, 1900.

Application filed August 21, 1899. Serial No. 727,991. (No model.)

*To all whom it may concern:*

Be it known that I, NIELS ANTON CHRISTENSEN, a resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have  
5 invented a certain new and useful Box or Housing for Compressors for Air-Brake Systems, of which the following is a specification.

The object of my invention is to provide a suitable box or housing for a compressor or  
10 the like, such as shown in Letters Patent No. 621,324, issued to me on March 21, 1899. This compressor is more especially used in connection with the air-brake system of railway-cars, street-cars, and the like and is arranged un-  
15 derneath and suspended from the car-body. It is desirable, if not necessary, to provide a box or housing for the compressor and motor, which are shown in my said patent as combined, which box shall be easily accessible, so  
20 that all the working parts within may be examined or regulated, and which shall also be readily removable from the compressor. My box embodies these features of advantage, as well as other desirable features, as will be  
25 apparent from the description hereinafter given.

In the drawings, Figure 1 is a perspective of the bottom or platform of the box on which the compressor rests or is secured, together  
30 with one of the swinging doors hinged thereto, and also showing the suspension-straps; Fig. 2, a perspective of the remaining part of the box or housing, and Fig. 3 a perspective of the box with one of the doors open.

35 While I have herein shown and described my box as used for a compressor located on a car in connection with the air-brake system, it will be understood that its application is not limited to a compressor used for that particular purpose or so located.

40 The combined motor and compressor 1 is set in and secured to the bottom or platform 2 of the box, which may be provided on its four sides with side strips 3. Upon one of the side strips is a closure or door 4 independent  
45 of all the other parts of the box and forming one of the ends or sides thereof. The other part of the box is consequently bottomless and lacks one side and comprises a top 5, with  
50 vertical strips 6 connecting the same to the bottom sills or strips 7 and 8. The top 5 may

be sheathed with metal, both inside and out, or either, and the inside of the door 4 may be similarly sheathed. Hinged upon or connect-  
55 ed to the sills 7 and 8 are openable closures or doors 10, each of which may have a metal panel 11, preferably of galvanized iron, which doors may be attached by hinges or remov-  
60 ably pivoted to its sill, as shown in the drawings. As shown, the side 9 is permanently closed, for the reason that access is not neces-  
65 sary on this side. The object of sheathing the parts and providing the sheet-metal panels is both for fireproofing and for the radiation of heat.

It will be understood that each of the doors above mentioned has a suitable latch device  
12 to hold and lock the swinging doors to the top 5 of the box or housing. The door 4 is  
70 provided with a chain 13, secured thereto and to a hook 14 in the inside of the top 5, thereby limiting the swing of the door to a horizontal position. The chain may be permanently at-  
75 tached to the top 5 and may be detachable from the door 4 as desired. By these means this door will be prevented from dropping  
down on the car-track, and the car may be started without having the door closed.

It is obvious that my invention may be carried out by either actually hinging the closure  
80 to its sill or by arranging the same removably, but in such manner that it shall form a closure. The door on sill 8 is hinged, while that on sill 7 is pivotally connected thereto, but  
85 not permanently hinged.

One of the main features of my invention is to provide a box of such construction as that its principal portion or body may be read-  
90 ily removable from the base or platform on which the compressor rests, and consequently the closure 4 is not necessarily, but is preferably, connected to the base or platform. The  
95 box or housing is thus constructed so as to not only fully protect the compressor in its naturally-exposed position underneath the car-body, but to afford access to all the work-  
ing parts within. Furthermore, the box is readily removable when it is desired to re-  
move or detach the compressor entirely from  
100 its location on the car. The body slides off bodily, leaving the compressor resting on the platform, and the compressor may then be

slid down an incline to the floor or ground after simply removing ordinary bolts that secure it to the platform. Straps or hangers 15, which are secured to the car-body, pass 5 underneath the platform and form a suspension for the entire device, as clearly shown in the drawings.

Although I have described more or less precise forms and details of construction, I do 10 not intend to be understood as limiting myself thereto, as I contemplate changes in form, the proportion of parts, and the substitution of equivalents as circumstances may suggest or render expedient and without departing 15 from the spirit of my invention.

I claim—

1. A housing for compressors and the like having a bottom or platform on which the compressor rests, the remaining part of the 20 box being separate and removable from the platform.

2. A box or housing for compressors and the like having a bottom or platform on which the compressor rests and a closure closing 25 one end of the box, the remaining part of the box being separate and removable from the platform and also separate from said closure.

3. A box or housing for compressors and the like as attached to cars comprising a bottom or platform on which the compressor rests, 30 a door hinged to such bottom and whose remaining portion, consisting of a top and three sides, is separate and removable from the platform and the hinged door.

4. A housing for compressors and the like as attached to cars comprising a closed box having a bottom or platform on which the compressor rests and a door hinged to such 35 bottom, both of which are separate and independent of the remaining portion of the box, the sides of said remaining portion of the box being provided with doors.

5. A housing for compressors and the like as attached to cars comprising a closed box 45 having a bottom or platform on which the compressor rests and also having a door hinged to such bottom, both of which are separate and independent of the remaining portion of the box, which portion comprises a

top and three sides and means for limiting 50 the downward swing of the door.

6. A housing for compressors and the like as attached to cars comprising a closed box having a bottom or platform in which the compressor rests and also having a door 55 hinged to such bottom, both of which are separate and independent of the remaining portion of the box, which portion comprises a top and three sides, such sides being provided with doors having sheet-metal panels. 60

7. A housing for compressors and the like comprising a closed box having a bottom or platform 2, sides or sills 3 thereon, a door 4 hinged at its lower side to one of the sills 3, 65 a top 5, bottom sills 7, 8 and 9, doors 10 hinged to the bottom sills respectively and closing the remaining three sides of the box, the door 4 forming the fourth side, and means for locking 70 said doors to the top 5.

8. A housing or box for compressors and the like comprising a closed box on the bottom of which the compressor rests and means whereby the remaining portion of the box 75 may be removed without disturbing the compressor.

9. A housing or box for compressors and the like comprising a closed box on the bottom of which the compressor rests, a door hinged to such bottom, the remaining portion of the box consisting of a top and three 80 sides being removable from said bottom and door and a chain secured respectively to the door and to said top to limit the swing of the door.

10. A housing or box for compressors and the like as attached to cars comprising a closed 85 box on the bottom or platform of which the compressor rests, a door hinged to such bottom, the remaining portion of the box consisting of a top and three sides being removable 90 from said bottom and door, and suspension straps or hangers 15 secured to the car-body and extending under said platform and supporting said compressor and its box.

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Witnesses:

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