No. 751,044. PATENTED FEB. 2, 1904.

W. H. BAYLEY.

NECK YOKE ATTACHMENT.

APPLICATION FILED AUG. 1, 1903.

NO MODEL.

Fig. 1.

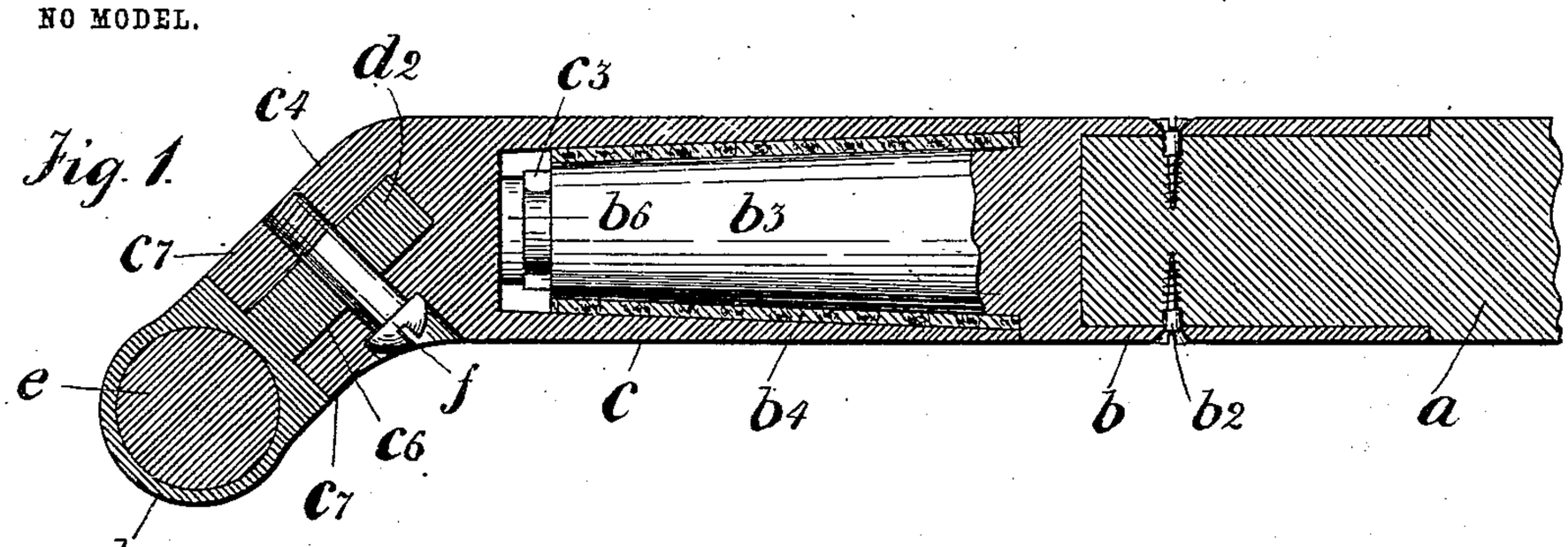


Fig. 2.

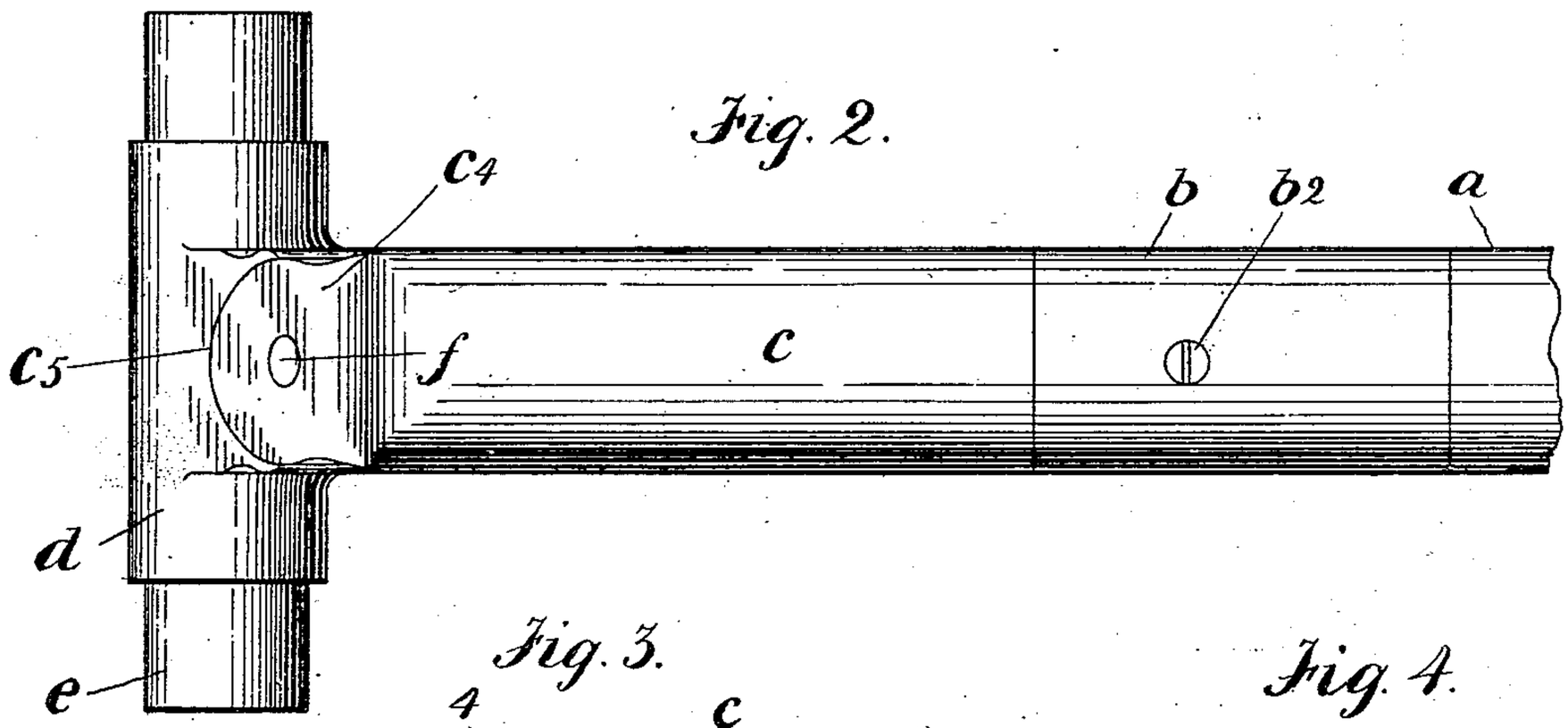


Fig. 3.

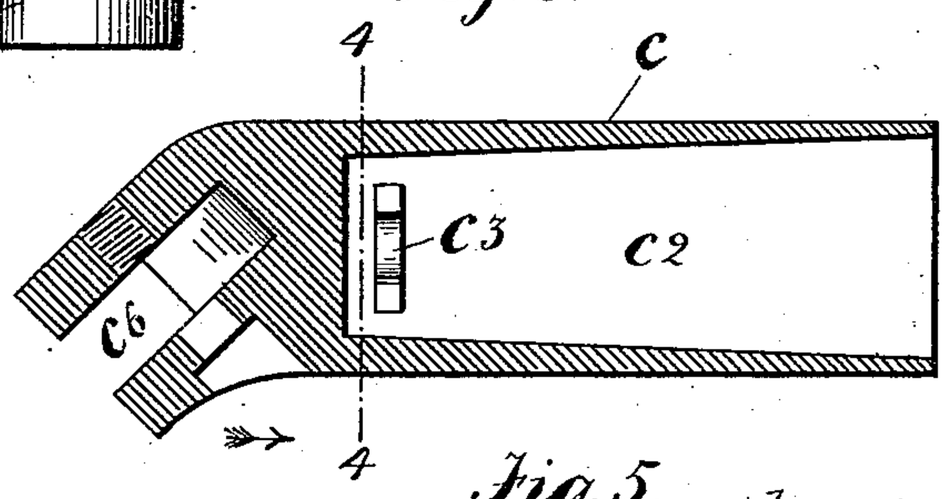


Fig. 4.

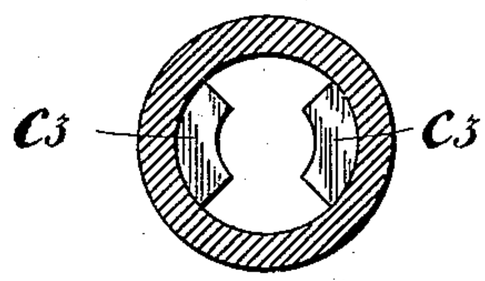


Fig. 5.

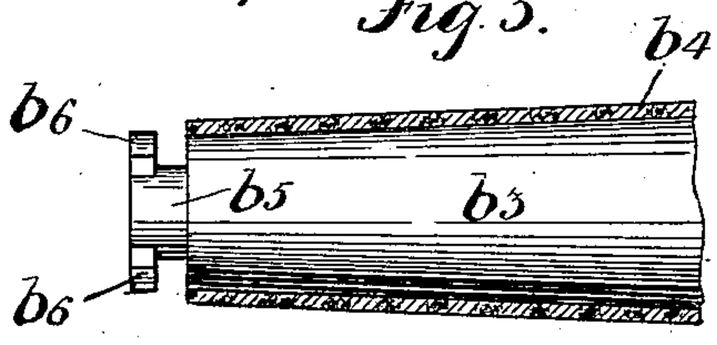
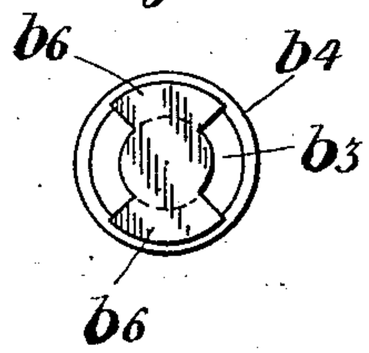


Fig. 6.



WITNESSES

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No. 751,044. Patented February 2, 1904.

UNITED STATES PATENT OFFICE.

WALTER HOLMES BAYLEY, OF PEACHAM, VERMONT.

NECK-YOKE ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 751,044, dated February 2, 1904.

Application filed August 1, 1903. Serial No. 167,846. (No model.)

To all whom it may concern:

Be it known that I, WALTER HOLMES BAYLEY, a citizen of the United States, residing at Peacham, in the county of Caledonia and State of Vermont, have invented certain new and useful Improvements in Neck-Yoke Attachments for the Poles of Carriages and other Vehicles, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

The object of this invention is to provide an improved neck-yoke attachment for the poles of carriages and other vehicles which will enable the neck-yoke to swing freely on the end of the pole and hold it in operative position at all times, and also permit the yoke to turn vertically on the pole within certain limits without being detached therefrom, and also prevent to an extent the noise and rattling occasioned by the operation of the yoke; and with this and other objects in view the invention consists in a neck-yoke attachment for carriage-poles constructed as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which—

Figure 1 is a sectional side view of my improved neck-yoke attachment for carriage-poles and showing the same connected with the pole; Fig. 2, a plan view thereof; Fig. 3, a section of a part of the neck-yoke attachment; Fig. 4, a section on the line 4 4 of Fig. 3; Fig. 5, a view similar to Fig. 3 of another part of the attachment, and Fig. 6 an end view of that part of the device shown in Fig. 5.

In the drawings forming part of this specification I have shown at a a part of a carriage-pole, and in the practice of my invention I provide a socket member b, in which the end of the pole a is secured by screws b^2 or in any preferred manner. The socket member b is provided with a projection b^3, which is cylindrical in cross-section and slightly tapered and on which is placed a tubular packing b^4, which is composed of leather, rubber, or any suitable material softer than the metallic parts by which it is inclosed. The tapered projection b^3 of the socket member b is provided at the smaller end with a neck portion b^5, on the opposite sides of which are formed locking lugs or projections b^6, and mounted on and inclosing the parts b^3 and b^4 is a sleeve c, the inner walls of which are tapered to correspond with the taper of the parts b^3 and b^4, and the socket c^2 within the sleeve c, which receives the parts b^3 and b^4, is provided near its inner end and at the opposite sides thereof with locking projections c^3, which correspond with the locking projections b^6.

The sleeve c is also provided with an inclined head c^4, the inclination of which is preferably downwardly and the end of which is segmental in form, as shown at c^5, and said head is provided with a transverse opening c^6, the inner end wall of which is segmental in form, and connected with the head c^4 of the sleeve c is a transverse sleeve d, through which the neck-yoke e passes. The transverse sleeve d is provided with a jaw d^2, which fits in the opening c^6 in the head c^4 and is free to turn therein, and passed through the head c^4 of the sleeve d and through the jaws d^2 of the sleeve d is a pin, bolt, or screw f.

In assembling these parts the sleeve c is slipped onto the projecting member c^3 of the socket member b and over the packing b^4, and in this operation the sleeve c is so held that the locking projections b^6 pass between the locking projections c^3, and the sleeve c is then turned through a quarter of a revolution and the parts assume the position shown in Figs. 1 and 2, and the sleeve c is locked to the projection b^3 of the member b. As thus constructed the sleeve c is free to turn on the member b, which is secured to the pole a, and the yoke e is free to swing or turn in a vertical plane within certain limits without being detached from the pole, and at the same time the yoke e is free to swing forwardly and backwardly, this movement being also, when the parts are in the position shown in Fig. 1, upward and backward and downward and forward; but it will be understood that the sleeve c may be turned so that the head c^4 thereof will be directed upwardly instead of downwardly.

The packing b^4 may be renewed whenever necessary or whenever it becomes sufficiently worn to necessitate the substitution of a new packing, and it will be understood that in order to detach the sleeve *c* from the pole all that is necessary is to turn said sleeve so that the locking projection c^3 c^3 will pass between the locking projections b^6; but said sleeve is never turned to this extent in the operation of the device, and therefore the said parts are always operatively connected.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A neck-yoke attachment for carriage-poles, comprising a socket member adapted to be secured to the carriage-pole and provided with a tapered projection, a packing placed on said projection, a sleeve mounted on said projection and inclosing said packing, means for locking said sleeve in position while permitting it to partially turn, said sleeve being also provided with an inclined head having a transverse opening and a transverse neck-yoke sleeve provided with a jaw which is fitted in said opening, and a bolt passed through said head and said jaw, said transverse sleeve being also adapted to swing in a plane at an inclination to the carriage-pole, substantially as shown and described.

2. The herein-described neck-yoke attachment for carriage-poles, comprising a socket member adapted to be secured to the pole and provided with a reduced and tapered projection, a packing member placed on said projection, said projection being also provided at its end with a neck portion having locking devices at its opposite sides, a sleeve mounted on said projection and inclosing said packing, and the inner walls of which are provided with locking projections, said sleeve being also provided with an inclined head portion and a neck-yoke sleeve provided with a jaw which is pivoted in said head portion, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 16th day of July, 1903.

WALTER HOLMES BAYLEY.

Witnesses:
CHARLES F. O. TINKER,
MABEL A. WOODSIDE.