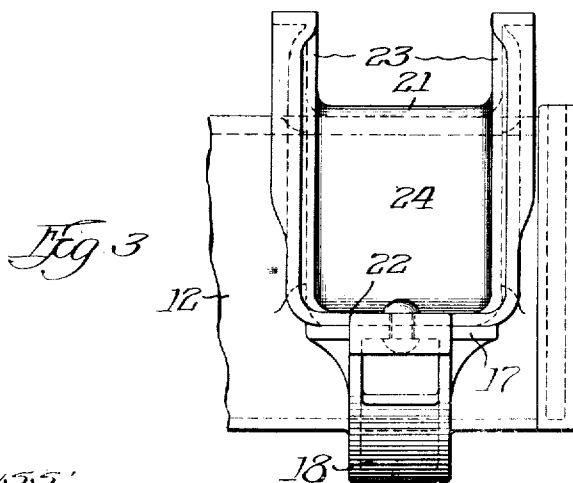
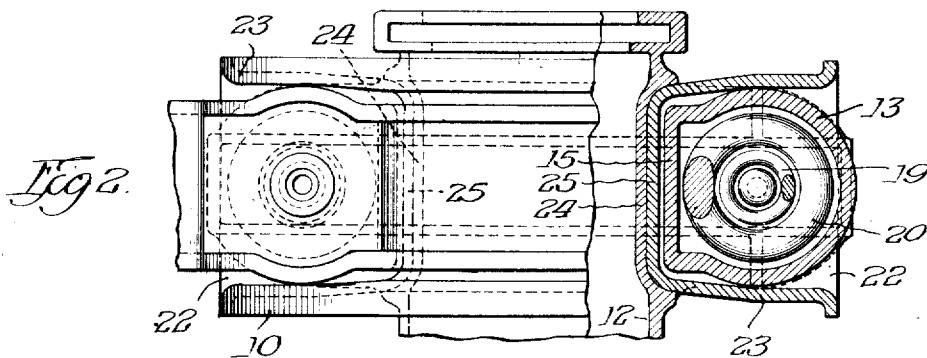
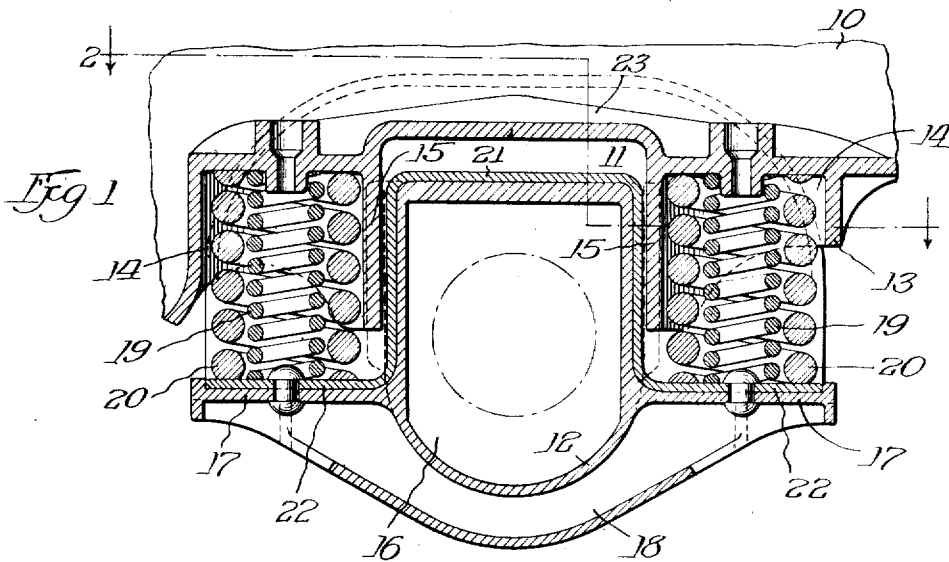


J. A. LAMONT.
SIDE FRAME AND JOURNAL BOX COMBINATION.
APPLICATION FILED APR 25, 1921.

1,436,632.

Patented Nov. 21, 1922.



Witness:
Ed. Gibson

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UNITED STATES PATENT OFFICE.

JOHN A. LAMONT, OF CHICAGO, ILLINOIS, ASSIGNOR TO AMERICAN STEEL FOUNDRIES, OF CHICAGO, ILLINOIS, A CORPORATION OF NEW JERSEY.

SIDE-FRAME AND JOURNAL-BOX COMBINATION.

Application filed April 25, 1921. Serial No. 464,115.

To all whom it may concern:

Be it known that I, JOHN A. LAMONT, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Side-Frame and Journal-Box Combination, of which the following is a specification.

This invention relates to a combination of side frame, journal box and an associated saddle member mounted thereon.

One object of the invention is to provide a simple, strong and durable journal box having separately removable portions whereby one part may be substituted when a certain amount of wear has taken place without making it necessary to substitute a whole box.

Another object is to provide an improved combination of side frame, journal box and saddle therefor adapted to meet the various requirements for successful commercial use.

These and other objects are accomplished by means of the arrangement disclosed on the accompanying sheet of drawings in which—

Figure 1 is a fragmentary longitudinal sectional view of a railway car truck embodying my invention.

Figure 2 is a partial top plan and partial sectional view of the same arrangement taken in the planes of the irregular line 2—2 of Figure 1; and,

Figure 3 is a fragmentary side elevation of my improved journal box.

The various novel features of the invention will be apparent from the following description and drawings and will be particularly pointed out in the appended claims.

Referring to the figures of the drawings will be noted that I have disclosed my invention in connection with a railway car truck including a side frame 10 having a pocket 11 formed therein for the reception of a journal box 12. The side frame is integrally formed therewith depending flanges 13 for forming spring receiving pockets 14, the inner portions 15 of said walls being the greatest in depth and forming side walls by means of which the journal box 12 is guided in its relative vertical movements. The journal box 12 has a main

journal receiving box portion 16 and integrally formed laterally extending brackets 17 on opposite sides thereof. For strengthening the box and reinforcing the brackets 17, the latter are connected by an integrally formed flange 18 extending below the box portion 16.

In my copending application, Serial No. 422,463 filed November 8, 1920, now Patent No. 1,377,702, granted May 10, 1921, there is disclosed a wearing plate which is mounted over the journal box and its brackets. Such plate is used for wear purposes only.

In my present application, instead of providing a wear plate as such only, I have provided a pressed or forged steel saddle 21, the middle portion of which is U shaped and extends over the main box portion 16 of the journal box 12 and has laterally extending portions 22 which are riveted or suitably secured to the bracket 17. These portions 22 of the saddle directly receive the springs 19 and 20, the upper portions of which are located within the spring pockets 14 in the side frame 10. The saddle 21 has side walls 23 which extend from its floor portions 22 on one side to its floor portions 22 on the other side in a manner such that the sides of the springs 19 and 20 are completely enclosed thereby and in a manner such that the side frame 10 sets down in between the flange 23 as shown particularly in Figure 3 to limit relative lateral movement between the saddle 21 and the side frame. Relative lateral movement between the saddle 21 and the journal box is prevented by providing the sides of the journal box with recessed portions 24, best shown in Figure 2, in which the inner side walls 25 of the saddle are located. It is seen therefore that the side frame and saddle are interlocked with each other and that the saddle and journal box are interlocked with each other in a manner such that relative lateral movement between the frame and journal box is limited.

This combination provides an arrangement in which the saddle may be removed and replaced, if desired, on account of wear and also provides an arrangement whereby the parts are interlocked and made strong and reinforced in a manner to successfully meet operating conditions.

It is my intention to cover all modifications of the invention falling within the spirit and scope of the following claims.

I claim:

5 1. In a railway car truck, the combination of a journal box having brackets on opposite sides thereof, a separate saddle member fitting over said box and brackets, a side frame having a spring receiving pocket
10 mounted within a portion of said saddle, and a spring in said pocket and mounted on a portion of said saddle.

2. In a railway car truck, the combination of a journal box having brackets on
15 opposite sides thereof, a separate saddle member fitting over said box and brackets, a side frame having a spring receiving pocket mounted within a portion of said saddle, and a spring in said pocket and
20 mounted on a portion of said saddle, said side frame, saddle and journal box having interlocking portions for limiting relative lateral movement therebetween.

3. A journal box comprising a journal receiving portion and brackets on opposite
25 sides thereof, and a separate saddle mounted over said box, said saddle having spring seat portions mounted over said brackets and side walls connecting said seat portions for
30 forming enclosures for springs.

4. A journal box comprising a journal receiving portion and brackets on opposite sides thereof, and a separate saddle mount-

ed over said box, said saddle and box having interfitting portions for preventing relative
35 movement between the same in a given direction.

5. A journal box comprising a journal receiving portion and brackets on opposite
40 sides thereof, the side walls of said journal receiving portion having recesses formed therein, and a separate saddle member mounted over said journal box having portions mounted in said recessed side walls to
45 prevent relative movement between said parts in a given direction and having spring receiving portions mounted over said brackets.

6. A journal box comprising a journal receiving portion and brackets on opposite
50 sides thereof, the side walls of said journal receiving portion having recesses formed therein, and a separate saddle member mounted over said journal box having portions mounted in said recessed side walls to
55 prevent relative movement between said parts in a given direction and having spring receiving portions mounted over said brackets, said saddle having side walls extending
60 between said spring seat portions and passing over the journal receiving portion of said journal box.

Signed at Chicago, Illinois, this 18th day of April, 1921.

JOHN A. LAMONT.