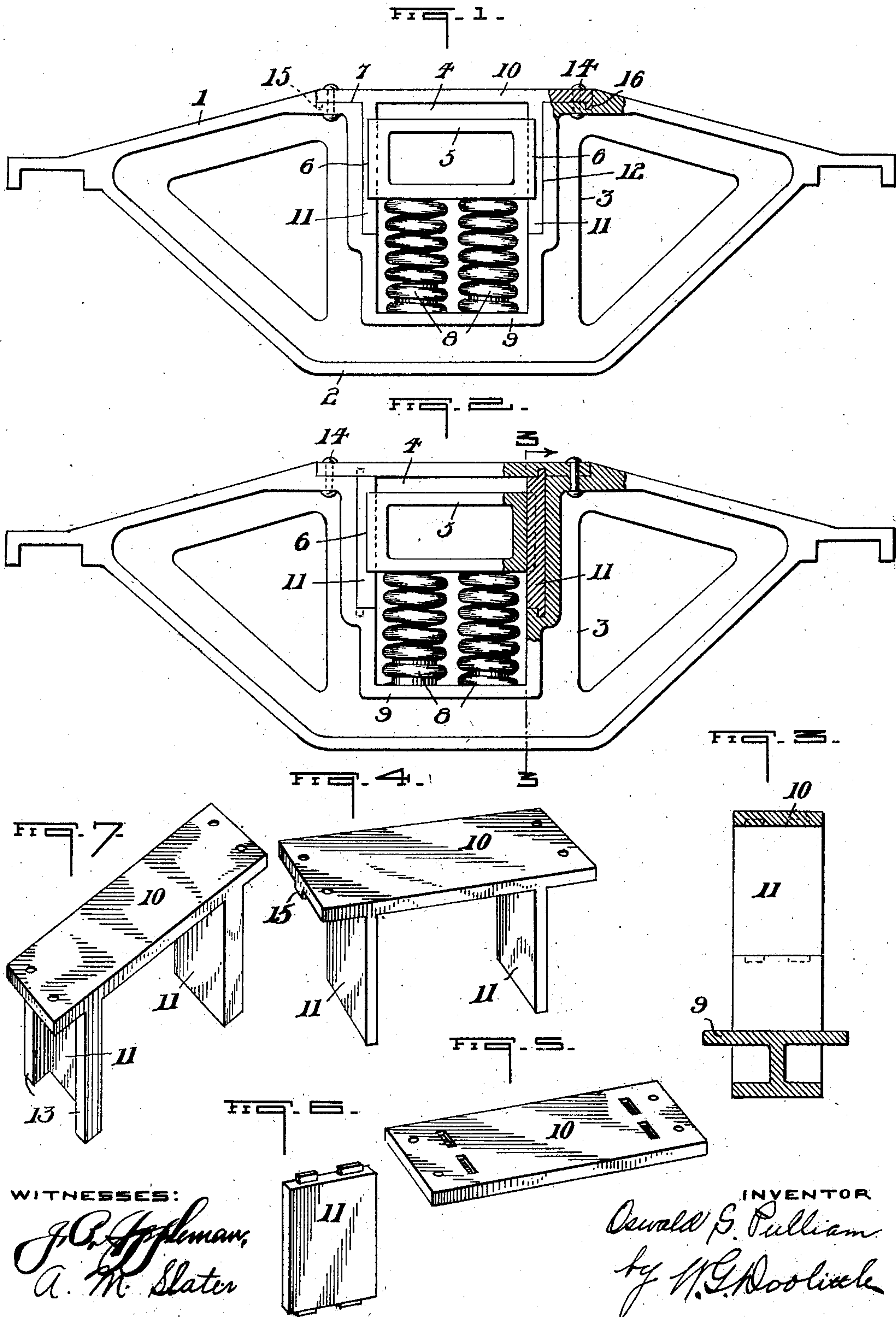


No. 897,010.

PATENTED AUG. 25, 1908.

O. S. PULLIAM.
SIDE FRAME CONSTRUCTION.
APPLICATION FILED JULY 16, 1907.



UNITED STATES PATENT OFFICE.

OSWALD S. PULLIAM, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR TO PITTSBURGH EQUIPMENT COMPANY, OF PITTSBURG, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

SIDE-FRAME CONSTRUCTION.

No. 897,010.

Specification of Letters Patent.

Patented Aug. 25, 1908.

Application filed July 16, 1907. Serial No. 384,040.

To all whom it may concern:

Be it known that I, OSWALD S. PULLIAM, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Side-Frame Construction, of which the following is a specification.

This invention relates to side-frame constructions for cars and the prime objects of the present invention are to provide means for readily placing a bolster in the side-frames and removing the same therefrom; and to provide a construction that will protect the side-walls of the bolster-receiving-opening from being worn by the bolster.

To these ends my invention consists in a new and improved side-frame construction, in the novel features of construction, and in the combination of parts all as fully herein-after described and claimed.

In the accompanying drawing, which illustrates applications of my invention, Figure 1 is a side elevational view of a side-frame construction embodying my invention; Fig. 2 is a part sectional view and a part side elevational view showing a modified form of my invention; Fig. 3 a sectional view taken on line 3—3 of Fig. 2; Fig. 4 a perspective view of removable top-plate and its downwardly extending members; Figs. 5 and 6 detail views of plate and upright-member shown in the form of Fig. 2; and Fig. 7 a perspective view of a modified form of plate and downwardly extending members.

Referring to the drawing, the side-frames proper as illustrated and as preferred comprise a top-member 1, a bottom-member 2, and a skeleton web-portion 3.

The side-frames are each formed with a bolster-receiving-opening 4 having its upper portion at least as wide as the bolster measured over its column-guides and its lower portion contracted and of less width than the bolster measured over its column-guides, said opening is adapted to receive the respective ends of a bolster 5. Bolster 5 is provided with column-guides 6.

In order to admit the bolster to its receiving-opening 4, I form the top-member 1 with a cut-away portion and with ledges 7.

8 designate bolster-springs of the usual form resting upon a spring-seat 9. After the bolster is placed within the bolster-receiving-opening a top-plate 10 having downwardly

extending members 11 is placed in position in the cut-away portion with its ends resting on the ledges 7 thereof and the members 11 within the bolster-receiving-opening. The downwardly extending members 11 are located in said bolster-receiving-opening 4 and constitute bolster-guides adapted to make contact with the column-guides of the bolster. These members 11 are interposed between the sides of the bolster and the side-walls 12 of the opening 4 and prevent the bolster coming into contact with said side-walls 12 or any other part of the side-frame proper.

In the drawings, I have shown several forms of top-plates and downwardly extending members. In the forms of Figs. 4 and 7 the members 11 are formed integral with the top-plate 10, while in the form of Fig. 2, as particularly shown by Figs. 5 and 6, the top-plate and its members 11 are made in separate pieces. When made in separate pieces the plate 10 is formed with openings to receive lugs formed on the upper ends of the upright members. (See Figs. 5 and 6.) In the form of Fig. 7 the members 11 are formed with flanges 13 adapted when in position to engage the edges of the side-walls 12.

As illustrated the top-plate 10 in all the forms is fitted into the cut-away portion and is secured to the ledges or bearing-members 7 of the top-member 1 of the side-frame proper by means of rivets 14. The top-plate bridges the opening and takes the place of the metal removed from member 1 in forming the opening.

If desired the top-plate may be provided with lugs 15 as shown in the form of Fig. 4. When these lugs are employed the top-member 1 is formed with recesses or pockets 16 to receive said lugs.

What I claim is:

1. In a side-frame construction, the combination with a bolster provided with column-guides, of a side-frame proper having its top-member cut away to admit a bolster and formed with a bolster-receiving-opening having its upper portion at least as wide as the bolster measured over its column-guides and a lower contracted portion, and a top-plate having a downwardly extending member located in the opening and disposed between the column-guides of the bolster.

2. In a side-frame construction, the com-

5 bination with a bolster provided with column-guides, of a side-frame proper formed with a bolster-receiving-opening, having its upper portion at least as wide as the bolster measured over its column-guides and a lower contracted portion, a top-member cut away to admit the bolster, said top member provided with supporting ledges, a plate bridging the opening and secured to the ledges, said plate
10 having downwardly extending members located in the bolster-receiving-opening and engaging the side-walls of the opening.

3. In a side-frame construction, the combination with a bolster, of a side-frame
15 proper having a bolster-receiving-opening with its upper portion at least as wide as the bolster measured over its column-guides and a lower contracted portion, and its top-member cut away to admit the bolster, a plate located in the cut-away portion of the top-member provided with downwardly extending members located in the bolster-receiving-opening and arranged between the sides of the bolster and the side-walls of the bolster-

receiving-opening and engaging the side- 25 walls.

4. In a side-frame construction, the combination with a bolster provided with column-guides, of a side-frame proper having a bolster-receiving-opening with its upper portion
30 at least as wide as the bolster measured over its column-guides and a lower contracted portion and its top-member cut away to admit the bolster, said top-member having supporting ledges, a plate located in the cut- 35 away portion of the top-member and constituting a continuation thereof provided with downwardly extending bolster-guides located in the bolster-receiving-opening and in contact with the column-guides of the bolster, 40 said plate supported by and secured to the ledges of the top-member.

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

OSWALD S. PULLIAM.

Witnesses:

EDWIN L. ALLEN,
W. G. DOOLITTLE.