

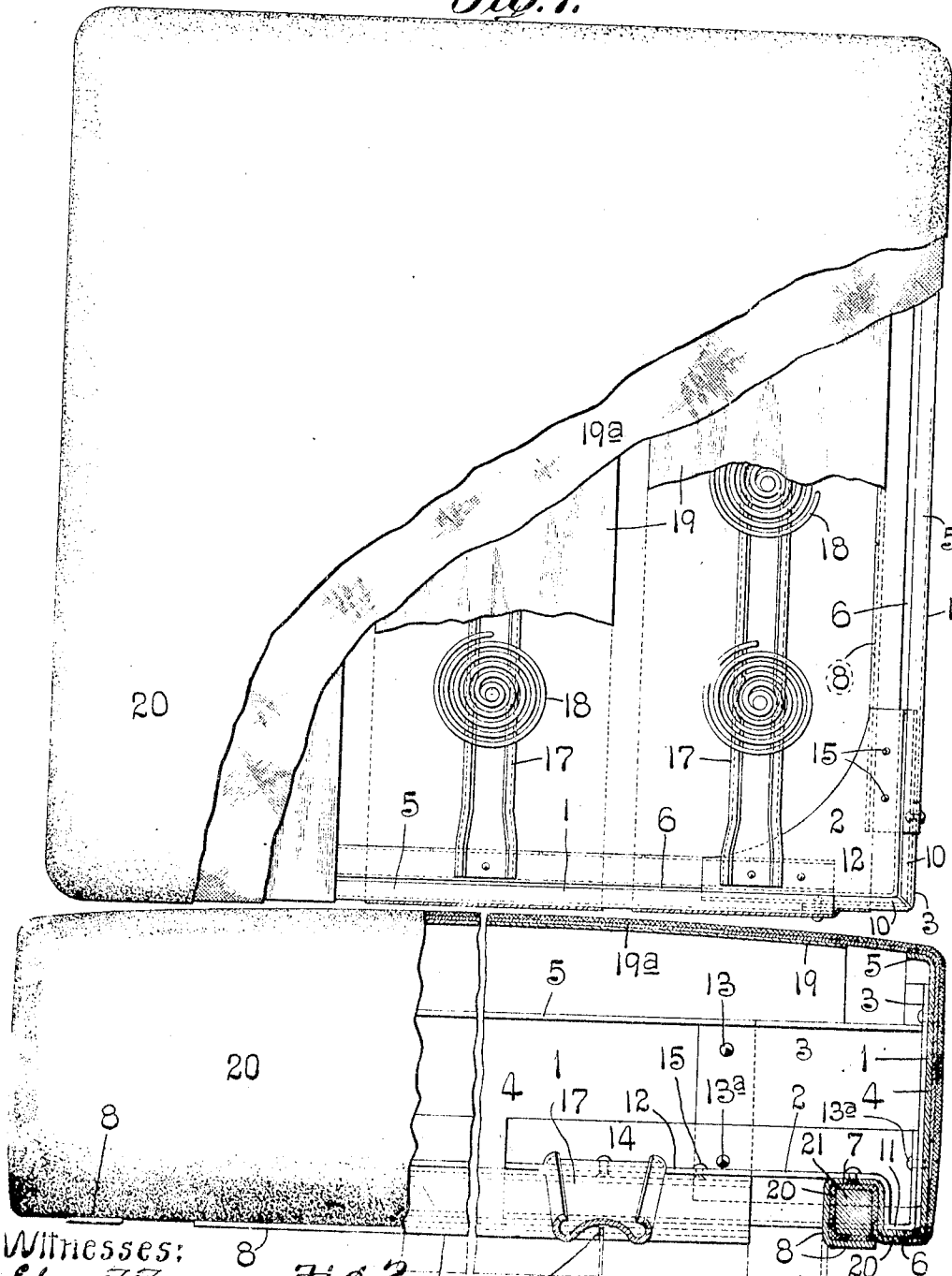
No. 871,951.

PATENTED NOV. 26, 1907.

A. E. OSTRANDER.
SEAT AND SEAT BACK FOR RAILWAY ROLLING STOCK.
APPLICATION FILED MAR. 7, 1907.

Fig. 1.

2 SHEETS—SHEET 1.



Witnesses:
Edgar T. Farmer.
A. J. McQuay.

Fig. 2.

Allen E. Ostrander.
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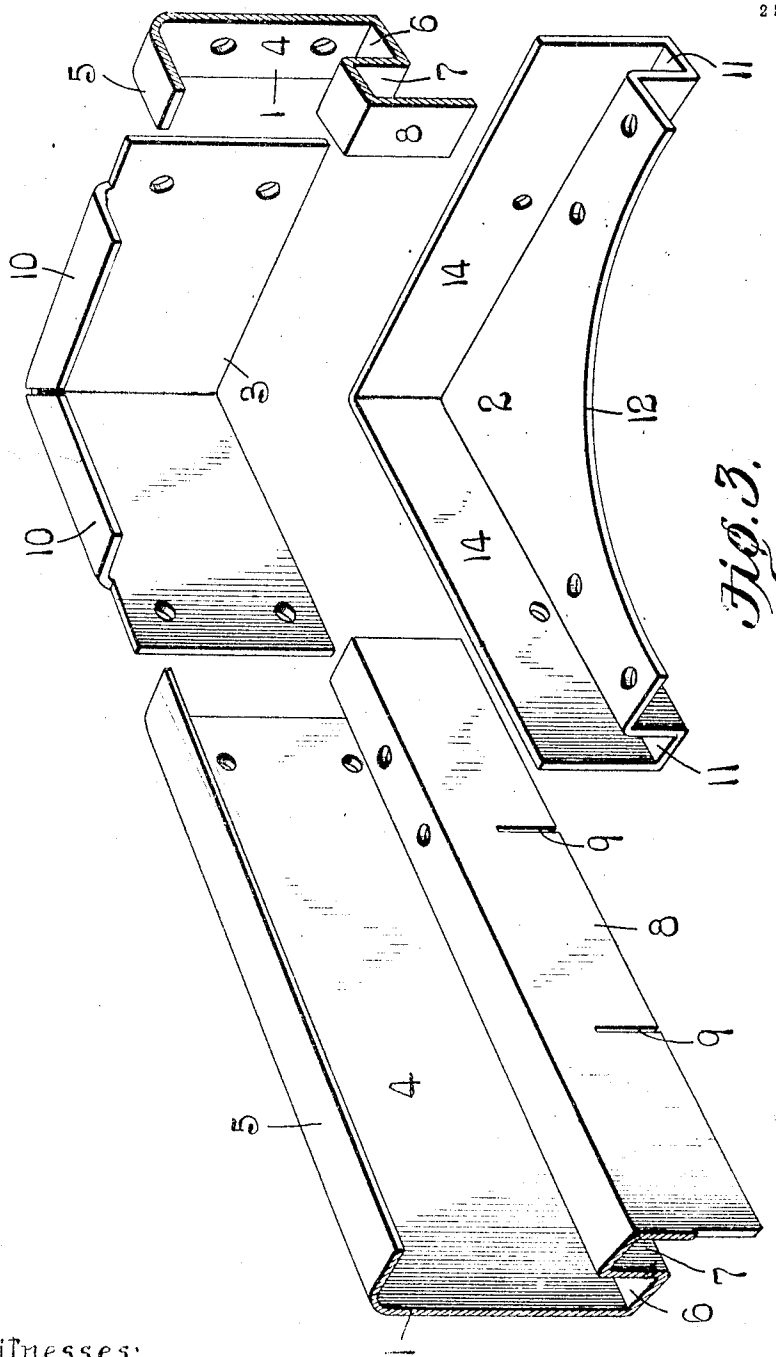
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SEAT AND SEAT BACK FOR RAILWAY ROLLING STOCK.

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2 SHEETS—SHEET 2.



Witnesses:

Edgar T. Farmer.
A. M. Conway

Inventor,

Allen E. Ostrander.

By Baker & Co. v. Cammell Attys.

UNITED STATES PATENT OFFICE.

ALLEN E. OSTRANDER, OF PATERSON, NEW JERSEY, ASSIGNOR TO AMERICAN CAR & FOUNDRY COMPANY, OF ST. LOUIS, MISSOURI, A CORPORATION OF NEW JERSEY.

SEAT AND SEAT-BACK FOR RAILWAY ROLLING-STOCK.

No. 871,951.

Specification of Letters Patent.

Patented Nov. 26, 1907.

Application filed March 7, 1907. Serial No. 361,161.

To all whom it may concern:

Be it known that I, ALLEN E. OSTRANDER, a citizen of the United States, residing at Paterson, New Jersey, have invented a certain new and useful Improvement in Seats and Seat-Backs for Railway Rolling-Stock, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a plan view with a portion of the seat covering broken away to show the interior of the seat; Fig. 2 is an enlarged side elevation, partly in section; and Fig. 3 is a detail perspective view illustrating parts of the seat frame.

This invention relates to new and useful improvements in seats and seat backs for railway rolling stock, the object being to provide a very rigid metallic frame for a seat or seat back that can be constructed at a low cost. Another object is to provide an efficient means for clamping the upholstering material in position.

I have herein shown only a seat constructed in accordance with my invention as the seat back is constructed in the same manner, so wherever I use the term "seat" in the claims I mean to include a seat back as well as a seat.

In the drawings which illustrate the preferred form of my invention, four pressed metal members 1, which I term the side and end members of the seat frame, are connected together by gusset members 2 and angles 3 to form a rectangular frame. The members 1 are preferably of the shape shown in Fig. 3, and comprise a vertical web 4 which is curved at its upper edge to avoid cutting the upholstering material, and flanged inwardly at 5. The lower edges of the members 1 are shaped to provide grooves or channels 6 and 7, the inner walls of the channels 7 being formed by depending flanges 8, the lower margins of which flanges are cut at intervals as indicated at 9. Angles 3 form the corners of the seat frame, said angles being provided with flanges 10 which butt against the flanges 5 of the members 1.

The gusset members 2 are provided with channel-shaped portions 11 which are formed integral with gusset plates 12 and project downwardly into the channels 6 of the mem-

bers 1. These gusset members are thereby interlocked with and rigidly secure the side members 1 together. Rivets 13 and 13^a secure the corner angles to the members 1, the rivets 13^a passing through the flange 14 which forms the outer wall of the channel 11. The plates 12 of the gusset members are secured to the members 1 by means of rivets 15 that pass through the webs of the channels 7 of said members 1.

Fastened to the webs of the channels 7 of two of the members 1 by means of rivets are slats 17 which support spiral springs 18. The usual spring bands 19 extend over the upper ends of the spiral springs, and are connected to the vertical webs of the members 1 by means of rivets.

An inner canvas covering 19^a may be secured to the members 1 in any suitable manner. The outer covering 20 for the seat may be of ratan, plush or any suitable material and extends over the upper edge of the side members 1 and under the channels 6 at the lower edge of said members as shown in Fig. 2. Splines 21 are placed in the channels 7 to force the covering material into said channels. The edge of the covering is folded under said splines, and the depending flanges 8 of the channels 7 are bent upwardly from the position shown in dot-and-dash lines in Fig. 2 to the position shown in full lines, to clamp the covering in position.

I deem it an advantage to cut the flanges 8 at intervals, as shown at 9, because it leaves comparatively short flanges which may be easily bent into position.

When the flanges 8 are bent upwardly they lie below the covering 20 where it extends under the channels 6 at the lower edge of members 1, as shown in Fig. 2, and when the seat is in use the flanges 8 rest on the support for the seat, and thereby prevent the covering 20 from wearing at this point.

Having thus described the invention, what is claimed as new and desired to be secured by Letters Patent is:

1. A seat provided with a metallic frame comprising side members having horizontally disposed grooves, inside gusset members provided with portions that are located in said grooves, and outside corner-pieces secured to the side members; substantially as described.

2. A seat having a frame comprising flat metallic side members provided at their

lower edges with integral channel-shaped portions, inside gusset plates having integral projections which interlock with said channel-shaped portions; and outside corner pieces connected to the side members; substantially as described.

3. A seat provided with a frame comprising side members having straight vertical webs curved at their upper edges, integral channel-shaped portions adjacent the lower edges of said webs and projecting inwardly therefrom, and inside gusset plates having portions which are interlocked with the channel-shaped portions of the side members; substantially as described.

4. A seat provided with a frame comprising side members each of which has a web, a pair of channel-shaped portions adjacent the lower edge of said web, inside corner members constructed to fit into one of the channel-shaped portions of each of the side members to lock the side members together, and the other channel-shaped portion of each side member having a depending flange which is cut at intervals so that it can be more readily bent to clamp the seat covering in position; substantially as described.

5. A seat frame comprising metallic members curved at their upper edge and forming the sides and ends of the frame, outside angles forming the corners of the frame, said angles being curved at their upper edge, the curved portions of said angles butting against the curved portions of the side members, and inside gussets connected to said metallic members and to said corner angles; substantially as described.

6. A seat provided with a frame consisting of side and end members formed of metal and provided with inwardly projecting horizontally disposed channel-shaped portions, inside corner members provided with gusset plates and with channel-shaped portions that cooperate with those of said side and end members, and means for rigidly connecting the corner members to the side and end members; substantially as described.

7. A seat provided with a frame that consists of metallic members each of which comprises a web portion and an integral channel-shaped portion at the lower edge thereof, inside corner members comprising web por-

tions and channel-shaped portions that fit in those of the members first referred to, outside corner members, means for connecting all of said members together, and a seat covering secured to said frame; substantially as described.

8. A seat provided with a frame which comprises side and end members provided at their lower edges with approximately S-shaped portions, and inside corner pieces each of which comprises a web provided at its lower edge with an approximately S-shaped portion that fits in the correspondingly shaped portion of one of the side and end members and is rigidly connected thereto; substantially as described.

9. A seat provided with a frame having metallic side and end members each of which comprises a straight web curved inwardly at its upper edge and provided at its lower edge with an inwardly projecting channel-shaped portion, and inside corner pieces connecting said side and end members together and each consisting of a horizontally disposed gusset plate provided at its outer edge with an integral channel-shaped portion that fits in those of the side and end members; substantially as described.

10. A seat provided with a metallic frame comprising four members that form the sides and ends of the frame, each of said members consisting of a web curved inwardly at its upper edge and provided at its lower edge with an approximately S-shaped portion, inside corner members consisting of webs provided at their lower edges with S-shaped portions which fit in those of the side and end members and angle-shaped outside corner pieces overlapping the webs of the side and end members and provided at their upper edges with inwardly projecting flanges that butt against the inwardly curved portions at the upper edges of the side and end members; substantially as described.

In testimony whereof I hereunto affix my signature in the presence of two witnesses, this 26th day of February 1907.

ALLEN E. OSTRANDER.

Witnesses:

ROBT. G. JEFFERY,
WILLIAM N. WIETH.