May 26, 1931. Z. CHEVRIER 1,807,084

WAGON END GATE MOUNTING

Filed April 16, 1927

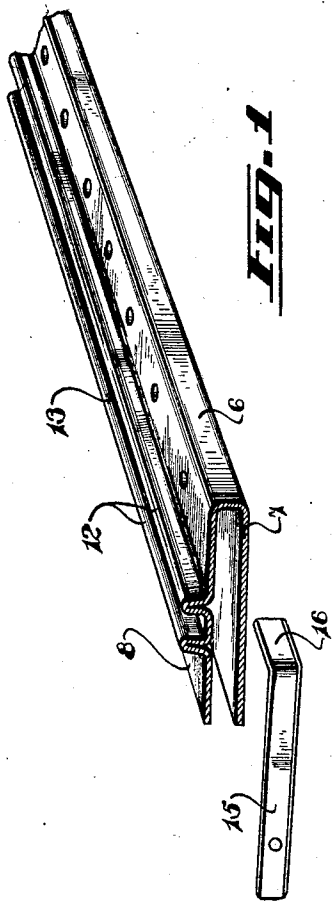

Fig. 1

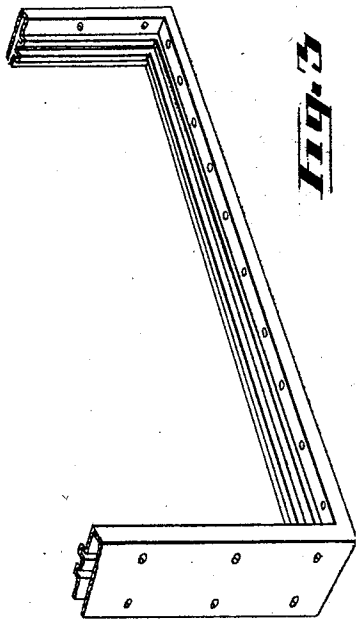

Fig. 3

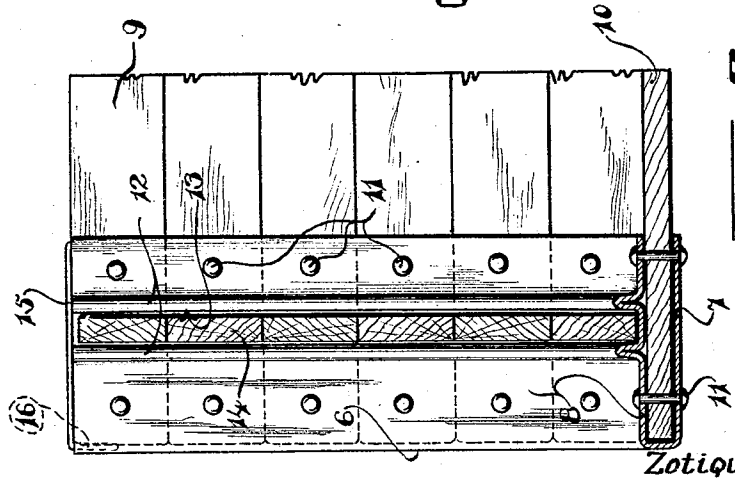

Fig. 2

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Patented May 26, 1931 1,807,084

UNITED STATES PATENT OFFICE

ZOTIQUE CHEVRIER, OF MAZENOD, SASKATCHEWAN, CANADA

WAGON END GATE MOUNTING

Application filed April 16, 1927. Serial No. 184,318.

This invention has relation to certain new and useful improvements in a wagon end gate mounting and has for its primary object the provision of a mounting which will be of such construction as to extend entirely around the end of the wagon to reinforce and strengthen the same as well as firmly hold the end gate in position.

The invention has for another object the provision of a wagon end gate mounting of the character stated which is composed of a single metallic member bent to substantially U-shaped form so as to extend over both the inner and outer faces of the bottom and sides of the wagon body at the ends thereof, with the inner face bent so as to provide a pair of spaced ribs forming a channel or seat therebetween on the inner faces of the wagon sides and on the bottom thereof for the end gate which is insertable and removable vertically.

The invention has for a further object, the provision of a wagon end gate mounting of the character stated, which is of extremely simple and inexpensive construction and operation and may be readily adapted to the wagons now in use to provide an end gate mounting which will withstand the elements of the weather indefinitely and which will always assure firm closing of the end gate and retention of same in closed position.

To the accomplishment of these and related objects my invention resides in the construction, combination and arrangement of parts as shall be hereinafter more fully described, illustrated in the accompanying drawings and pointed out in the claim hereunto appended.

The invention will be best understood and can be most clearly described when reference is had to the drawings, forming a part of this disclosure, wherein like characters indicate like parts throughout the several views.

In the drawings:—

Figure 1 is a perspective view of a portion of the mounting;

Figure 2 is a fragmentary longitudinal sectional view through one end of the wagon having an end gate in closed position in the improved mounting; and

Figure 3 is a perspective view of the U-shaped plate wagon end gate mounting.

Referring more in detail to the drawings in which the similar reference characters designate corresponding parts throughout the several views, it is to be noted that the mounting is composed of a single metallic plate bent longitudinally along its centre to form a flat outer wall 7 and a flat inner wall 8. The plate 6 is also bent transversely to substantially U-shaped form so that it may extend around the end of the wagon with the upstanding portions of the flat outer wall 7 and the inner wall 8 may be engaged over the outer and inner faces of the sides 9 of the wagon as shown in Figure 2. At the same time the horizontal or central portions of the flat outer wall 7 and the flat inner wall 8 are engaged over the outer and inner faces of the wagon bottom 10 as illustrated in Figure 2.

It will therefore be seen in the drawings that rivets 11 or other opposite fastening members will pass through the outer and inner walls 7 and 8 and through the sides 9 and bottom 10 of the wagon to firmly secure the metallic plate 6 in position.

The portions of the flat inner wall 8 are pressed out to form spaced parallel ribs 12 extending longitudinally of the inner wall 8 and near the centre thereof to provide a substantial U-shaped channel 13 to receive the end gate 14 which may be inserted or removed vertically when placing the gate in position or removing the same.

Additional reinforcing means is provided in the form of a plate 15 secured in an appropriate manner on the top of each wagon side 9, at the end or corner thereof, with one short turned end 16 of the plate 15 extended downwardly in the central or bight portion of the member metallic plate 6 as shown clearly in Figure 2 of the drawings.

It is believed that the complete construction and operation may now be apparent from the foregoing paragraphs taken in connection with the accompanying drawings. It may be briefly stated that the end of the wagon will be thoroughly reinforced and strengthened when the plate 6 is provided

thereon and the end gate 14 will be firmly held in position with the edges of the end gate and the end portions of the wagon well protected from the weather elements.

From the foregoing description taken in connection with the accompanying drawings it will be manifest that a wagon end gate mounting is provided that will fulfill all the necessary requirements of such a device, but as many changes could be made in the above description and many apparently widely different embodiments of my invention constructed within the scope of the appended claim without departing from the spirit or scope thereof, it is intended that all matters contained in the said accompanying specification and drawings shall be interpreted as illustrative and not in a limited sense.

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

As a new article of manufacture, a single U-shaped plate wagon end gate mounting fitting over the end of the wagon bottom as well as the ends of the wagon upstanding sides and covering both the inner and outer faces of said wagon bottom and upstanding sides; said plate having a pair of full length spaced parallel ribs extending longitudinally of the plate and struck out from the inner face thereof to accommodate the lower edge and the upstanding edges of the wagon end gate insertable and removable vertically; and angular plates adapted to be mounted on the upper edges of the said wagon upstanding sides at the rear ends thereof and having their downturned angles extended into and held by the first mentioned plate.

In testimony whereof I hereunto affix my signature.

ZOTIQUE CHEVRIER.