W. I. TAYLOR.

CAR BRACE.

APPLICATION FILED MAY 23, 1908. RENEWED MAY 6, 1909.

929,998. Patented Aug. 3, 1909.

Fig. 1.

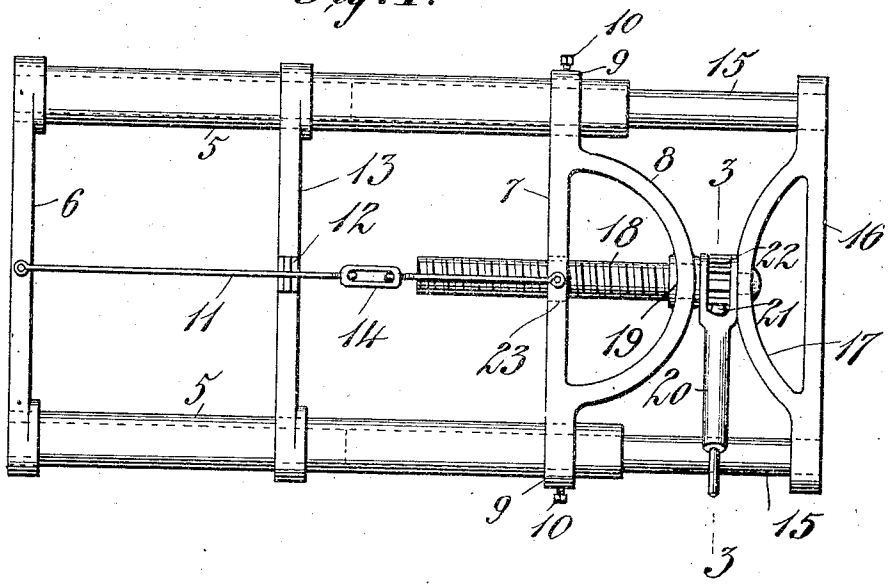


Fig. 2.

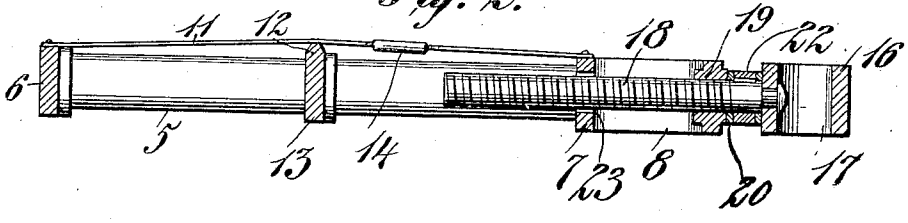
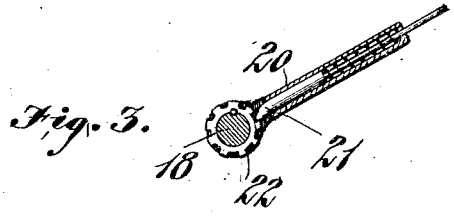


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

WILLIAM ISAAC TAYLOR, OF DECATUR, ILLINOIS.

CAR-BRACE.

No. 929,998. Specification of Letters Patent. Patented Aug. 3, 1909.

Application filed May 23, 1908, Serial No. 434,690. Renewed May 6, 1909. Serial No. 494,318.

To all whom it may concern:

Be it known that I, WILLIAM I. TAYLOR, a citizen of the United States, residing at Decatur, in the county of Macon and State of Illinois, have invented certain new and useful Improvements in Car-Braces, of which the following is a specification.

This invention relates to car-braces, or more particularly a device for preventing boxes or crates of fruit, eggs or other merchandise in transit from being knocked about by the jarring of the car.

The object of the present invention is to provide a brace of this kind which can be quickly applied or removed, and readily adjusted, and which will securely hold the load in the car.

In the accompanying drawing, Figure 1 is a plan view of the invention and Fig. 2 is a longitudinal section. Fig. 3 is a cross-section on the line 3—3 of Fig. 1.

The invention comprises, broadly speaking, a frame having a pair of tubular posts, stems telescoping therein, and means for advancing and retracting the stems. In the drawing the posts of the frame are indicated at 5. They are parallel and spaced a suitable distance apart. The posts are connected at one end by a cross-bar 6, and at the opposite end by a cross-bar 7 having an arched portion 8. The cross-bar 6 is permanently secured to the posts, and the cross-bar 7 is adjustably secured, it having at its ends sleeves 9 through which the posts extend. The cross-bar 7 is held in adjusted position on the posts by set screws 10 passing through the sleeves and bearing on the posts. The frame is stiffened by means of a tension rod 11 connected at its ends to the cross-bars 6 and 7 and passing over a strut 12 projecting from an intermediate cross-bar 13. The tension rod 11 is provided with a turn buckle 14 for tightening up the same.

The telescoping stems are indicated at 15. They are connected at their outer ends by a cross-bar 16 having an inverted arched portion 17. The stems are advanced and retracted by means of a screw 18 carried by the arch 17 and threaded through a nut 19 formed at the vertex of the arch 17. The screw is operated by a hand-lever 20 carrying a spring pressed reversible pawl 21 which is engageable with a ratchet 22 on the screw. In the cross-bar 7 is an opening 23 through which the screw loosely passes.

In use the brace is placed against the load in front thereof with the cross-bars 6 and 16 engaging opposite side walls of the car. The hand-lever 20 is then worked to turn the screw 18 in a direction to advance the stems 15 until the cross-bars press against the car walls sufficiently to hold the brace rigidly in position. To release the load it is necessary only to retract the stems by a few turns of the screw which disengages the brace from the car walls and enables it to be removed from in front of the load.

The brace herein described can be quickly and easily operated, and readily adjusted. It securely holds the boxes or crates and prevents them from falling down or being shifted around in the car by the motion or jarring thereof.

I claim:

1. A car-brace comprising a frame having a pair of tubular posts, stems telescoping therein, a traveling screw carried by the stems, a nut on the frame in which the screw works, and means for operating the screw.

2. A car-brace comprising a pair of tubular posts, stems telescoping therein, a traveling screw carried by the stems, a cross-bar adjustably mounted on the posts, a nut carried by the cross-bar in which the screw works, and means for operating the screw.

3. A car-brace comprising a frame consisting of a pair of tubular posts, and cross-bars connecting the same, stems telescoping in the posts, a cross-bar connecting the outer ends of the stems, a nut on one of the cross-bars of the posts, a traveling screw working in the nut and engageable with the cross-bar of the stems, and means for operating the screw.

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

WILLIAM ISAAC TAYLOR.

Witnesses:

CHARLIE A. DUNNIGAN,

ALFRED A. PETTY.