(No Model.)

D. D. WHITNEY.

WAGON SEAT LOCK.

No. 352,384. Patented Nov. 9, 1886.

Fig. 1.

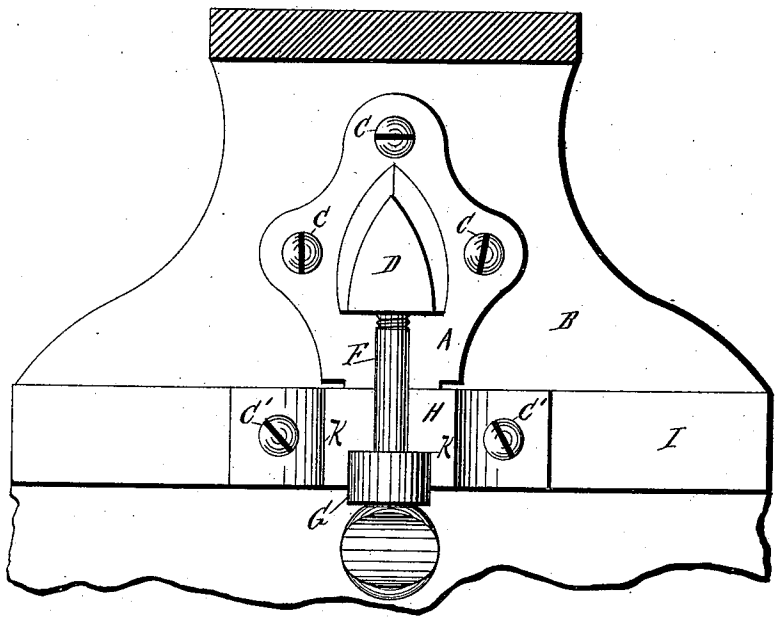
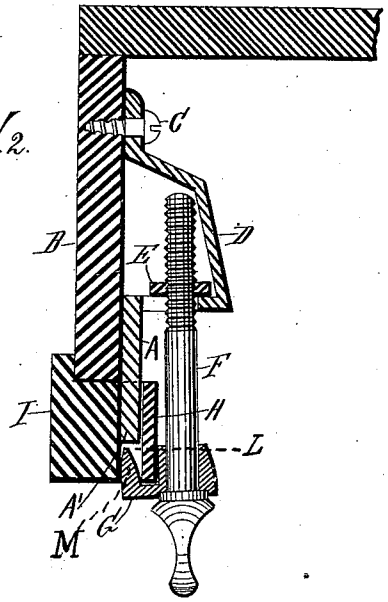


Fig. 2.



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UNITED STATES PATENT OFFICE.

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WAGON-SEAT LOCK.

SPECIFICATION forming part of Letters Patent No. 352,384, dated November 9, 1886.

Application filed April 27, 1886. Serial No. 200,309. (No model.)

To all whom it may concern:

Be it known that I, DANIEL D. WHITNEY, a citizen of the United States, and a resident of Cornwall, in the county of Orange and State of New York, have invented certain new and useful Improvements in Devices for Securing Wagon-Seats, of which the following is a specification.

My invention relates especially to devices employed for holding a removable wagon-seat in position upon the body of the wagon, and has for its object the provision of a device for said purpose cheap and simple to construct, easy to apply, and which will hold the seat with which it is employed against movement from its desired position and from tipping either forwardly or backwardly, and will also hold the seat rigidly to the body of the wagon, so as to prevent rattling of the seat or seats when not sufficiently weighted—as, for instance, when not at all or only partially occupied.

My invention consists, essentially, in a metal plate secured to the seat frame or support, said plate having a hollow projection or equivalent device, which loosely holds a nut adapted and arranged to engage with a thumb-screw bearing an adjustable clip, which engages with the under edge of a metallic piece or strip attached to the side of the wagon-body, all being constructed and arranged in such manner that upon tightening the thumb-screw the seat will be clamped immovably in its place.

In the drawings, Figure 1 is a view in elevation of my device, showing it as in use. Fig. 2 is a vertical sectional view thereof.

Like letters of reference, wherever they occur, indicate corresponding parts in both the figures.

A is a plate, made of any suitable material, preferably metal, and secured to the seat-support B by means of screws C, or in any other suitable manner. It is provided with a downwardly-extending tongue, A'. D is a hollow projection upon the plate A, wherein loosely fits a nut, E, adapted and arranged to engage with a thumb-screw, F, bearing a clip, G. The nut E cannot, however, turn around within the part D. H is a metal plate, secured to the side I of a wagon by screws C', or in other suitable manner. This plate has an offset, K, near its central part, which forms a hollow recess, L, behind the plate when it is fastened to the side of the wagon, into which the downwardly-extending tongue A' of the plate A and the upwardly-extending edge M of the clip G may enter, if such parts are employed, which construction I prefer.

When constructed and arranged in accordance with the foregoing description, the operation of the device is as follows: With the parts in the positions shown in the figures, the seat is securely held in place. To release it the screw F is loosened, permitting clip G to drop out of engagement with the plate H, and by swinging the clip away from the plate H the seat may be lifted up. It will be observed that the screw passes into the enlargement D through a slot made in the under side thereof, instead of a circular opening. This arrangement permits the throwing of the screw at an angle, thus enabling the end of the thumb-screw F to be riveted or otherwise upset, which will prevent removal of the nut, thus preventing separation and loss of the parts, and also facilitating the adjustment of the parts. The downwardly-extending part A' of the plate A not only aids in holding the seat against longitudinal movement, but also prevents the spreading apart or closing together of the sides of the wagon, and the upwardly-extending edge or flange M of the clip G tends to hold the clip in firm engagement with the holding piece or strip H, and by firmly screwing up the bolt or thumb-screw F the seat and the wagon-body will be rigidly clamped to each other, so that no movement or rattling of the seat, which occurs with other seat-fasteners when the seats are not weighted, can take place. This rattling of the seats in fine wagons is a matter of great annoyance, and sometimes induces runaways.

It is obvious that many changes may be made in the details of construction shown without departure from my invention. For instance, the lower part of the shank of the thumb-screw, just above the head thereof, may be made to enter a recess or bifurcated part formed in a

metallic or other holding device formed on the side of the wagon; also, the nut may be pivoted to the plate A, instead of being inclosed within the hollow part D; also, the plate H may extend along the entire sides of the wagon, instead of being placed here and there only, thus enabling the seat to be located at any desired spot; also, the parts shown may be placed on the outside of the seat-support and on the outside of the wagon-body, instead of on the inside. I prefer the inside, however, and various other structural modifications which are possible to be made will readily occur to one skilled in this art. I do not, therefore, limit myself to the details of construction herein described and illustrated.

I prefer that the operative parts referred to shall be placed at both ends of the seat and upon both sides of the wagon-body, for the sake of more perfect security; but if the seat be strong enough to prevent accident they may be used on one end and side only.

Having now fully described my invention, what I claim as new therein, and desire to secure by Letters Patent, is—

1. The combination of a plate, A, attached to the support of a wagon-seat, provided with a downwardly-extending projection, A′, a holding-piece, H, attached to the side of the wagon and provided with a recess, L, adapted to receive the projection A′, and a longitudinally-adjustable bolt or rod connecting the plate A and the holding-piece H in such manner that the seat will be clamped rigidly to the wagon-body and prevented from rattling, and also prevented from longitudinal movement.

2. The combination of a plate, A, attached to the support of a wagon-seat, provided with a downwardly-extending projection, A′, a holding-piece, H, attached to the side of the wagon and provided with a recess, L, adapted to receive the projection A′, and a bolt or rod connecting the plate A and the holding-piece H, said bolt or rod bearing a clip provided with an upwardly-extending lip or flange adapted to enter the recess in the holding-piece H, substantially as and for the purposes set forth.

3. A securing device for wagon-seats, consisting of a plate, A, having a hollow enlargement, D, nut E, thumb-screw F, clip G, and plate H, the whole combined and arranged substantially as shown and described.

Signed at New York, in the county of New York and State of New York, this 26th day of April, A. D. 1886.

DANIEL D. WHITNEY.

Witnesses:

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