S. W. BEACH.

Shifting Carriage Seat.

No. 104,248. Patented June 14, 1870.

Fig. 1.

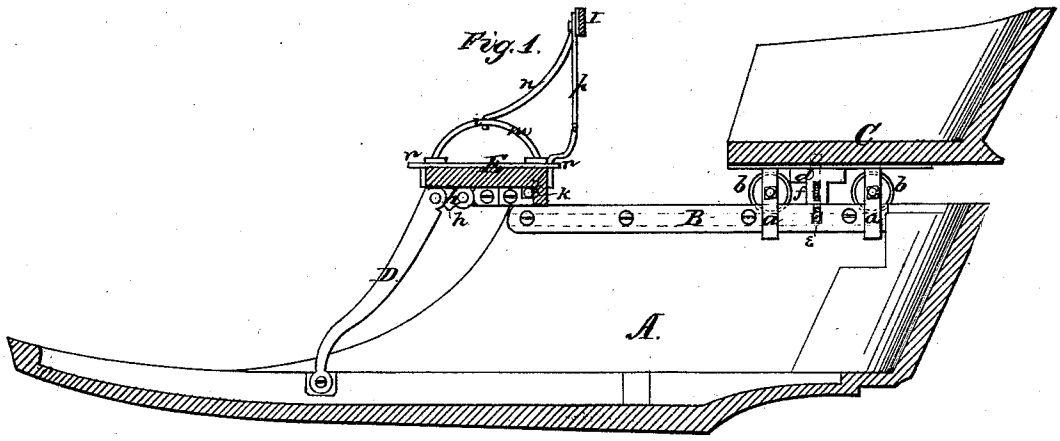


Fig. 2.

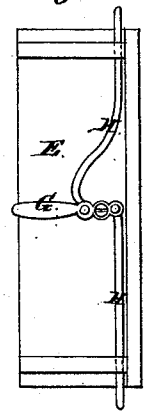
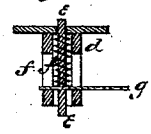


Fig. 3.



Witnesses.
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SYLVESTER W. BEACH, OF SOUTH BEND, INDIANA.

Letters Patent No. 104,248, *dated June* 14, 1870.

IMPROVEMENT IN SHIFTING CARRIAGE OR BUGGY-SEATS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, SYLVESTER W. BEACH, of South Bend, in the county of St. Joseph and State of Indiana, have invented certain new and useful Improvements in Movable Seats for Buggies, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, which form a part of this specification.

The nature of my invention consists in the construction and arrangement of movable seats for vehicles, as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a longitudinal vertical section of a wagon-body, with front and back movable seats;

Figure 2 is a bottom view of the front seat; and

Figure 3 is a vertical section of the mechanism for locking the back seat.

A represents the body of a vehicle, provided on the inside along the upper edges of its sides with bars, B, which are grooved on both the upper and under sides.

C is the back seat, provided at each end on the under side with two vertical bars *a a*, the lower ends of which are bent outward and upward, fitting into the grooves on the under sides of the bars B B.

On the outside of the bars *a a* are placed other smaller bars, to form, with the former, bearings for friction-rollers *b b*, which move in the grooves on the upper sides of the side bars B B.

The back seat C is thus supported upon the rollers *b b*, and can be moved back and forth to any point desired on the side bars B B. It is held in position by the following means:

Under each end or side of the seat, between the rollers *b b*, is secured a hollow post, *d*, within which is a vertical pin or bolt, *e*, pressed downward into a hole in the side piece B, by means of a spiral spring, *f*, as shown in fig. 3.

The pin or bolt *e* is provided with a lever or handle *g*, which projects through a slot on the outside of the hollow post *d*, and by this means the bolt *e* may be raised out of the side piece B and moved where desired.

A suitable distance from the front end within the body are pivoted two arms, D D, one on each side, said arms being, by means of double hinges, *h h*, connected with the front seat E, which thus can be thrown either backward into the body A, or forward, resting on the front end of the body, forming a convenient seat for children.

On the under side of the seat E is pivoted a lever, G, to which lever two rods, H H, are pivoted, one on each side of the pivot point of said lever, to the seat, said rods passing out through the ends of the seat, as shown in fig. 2.

By turning the lever G in one direction, the rods H H are drawn inward, but, by turning it in the opposite direction, the rods will project from the sides of the seat, that it may be supported in hooks, *k*, at the front ends of the side bars B B, the seat obtaining then the position shown in fig. 1.

At each end or side of the seat E is hinged a semicircular iron, *m*, in such a manner that it can be turned inward down upon the seat, said irons being also, in their center, provided with a socket, *i*, in which is inserted the front end of the side rail *n*.

This side rail is hinged to the back I in such a manner that it can be turned inward.

To the back rail I are also secured two back bars, *p*, the lower ends of which are inserted in holes in the ends of bars *r r*, secured on top of the seat E.

The bars or rods *p p* are jointed near their lower ends, so that the whole back can be turned forward on top of the seat, the side rails *n n* being first removed out of their sockets *i i*. The back thus formed is reversible, as the cross-bars *r r* have a hole or socket at each end for the insertion of the rods *p p*.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The arrangement, under the back seat of a vehicle, of the bent bars *a a*, friction-rollers *b b*, hollow posts *d d*, and spring bolts *e e*, with levers *g g*, all operating in combination with the grooved side bars B B, substantially as and for the purposes herein set forth.

2. The semicircular side irons *m m*, hinged, as described, to the seat E, and provided with sockets *i i*, substantially as and for the purposes herein set forth.

3. The back I, provided with jointed rods *p p* and hinged side rails *n n*, and used in combination with the side irons *m m* and cross-bars *r r*, on either side of the seat E, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own, I affix my signature in presence of two witnesses.

SYLVESTER W. BEACH.

Witnesses:

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