No. 779,725. PATENTED JAN. 10, 1905.

E. H. MASON.

BUGGY TOP SUPPORT.

APPLICATION FILED JUNE 22, 1904.

Fig. 1.

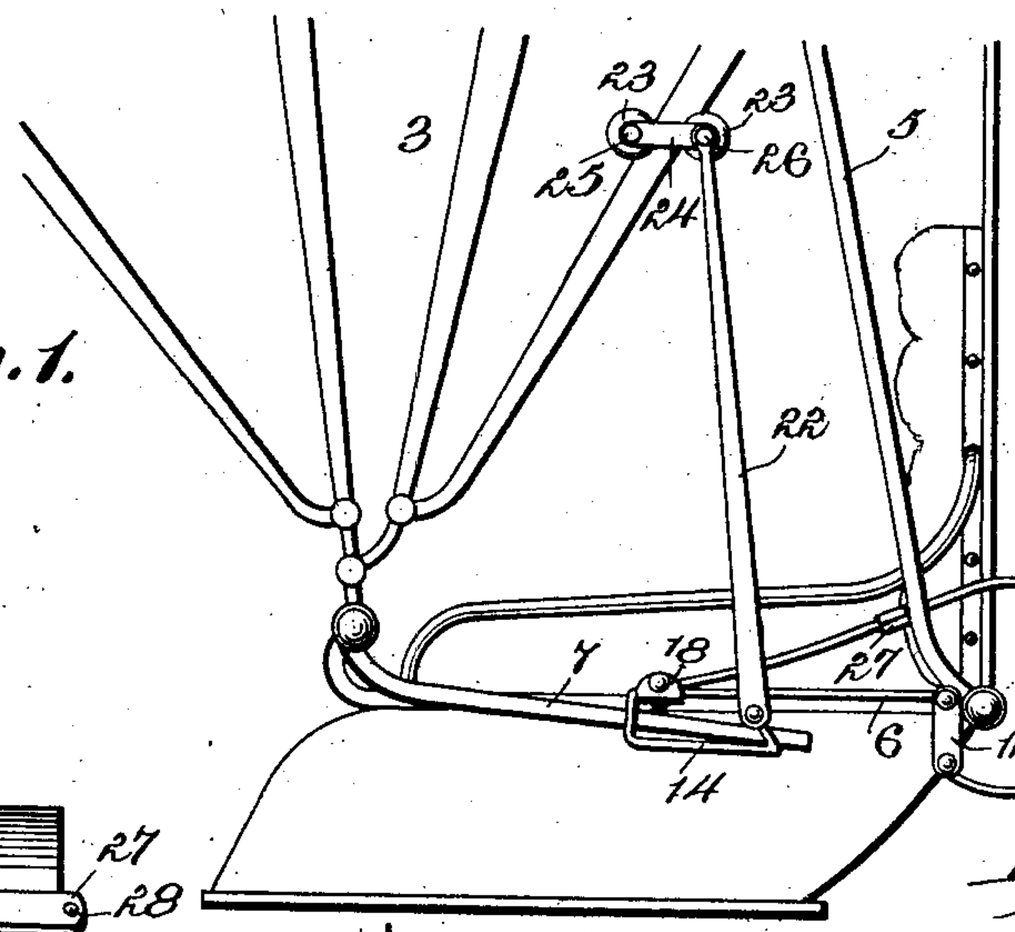


Fig. 2.

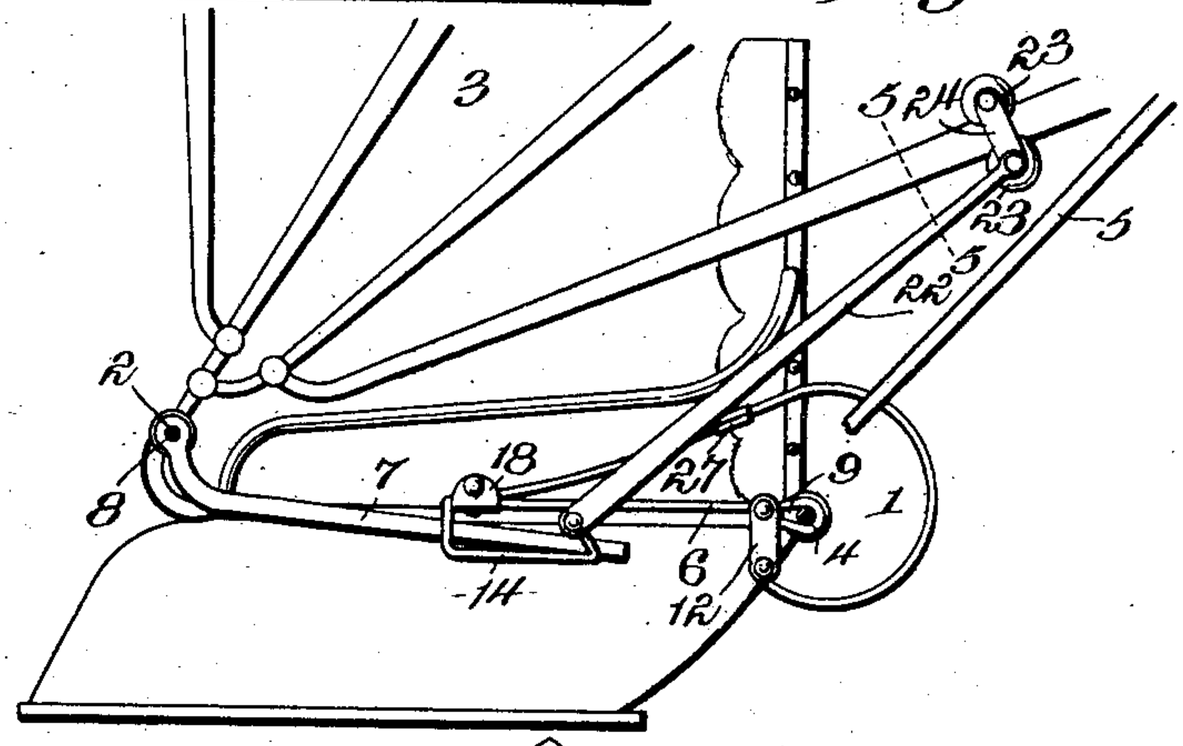


Fig. 4.

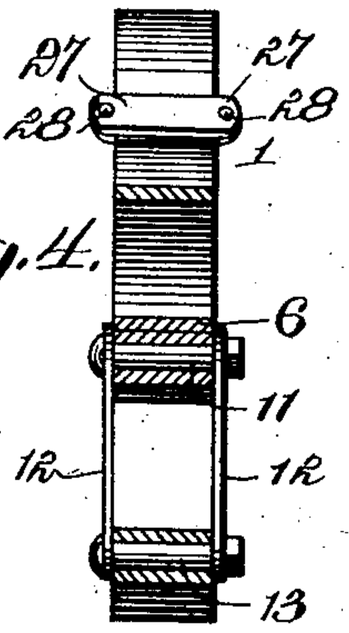


Fig. 5.

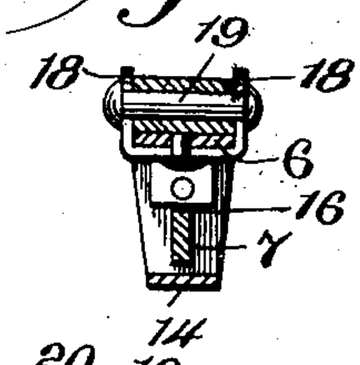
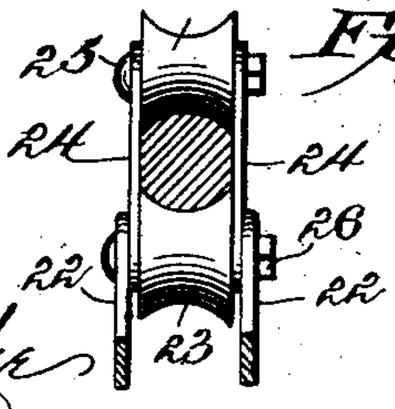


Fig. 3.

Fig. 6.



Witnesses

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No. 779,725. Patented January 10, 1905.

UNITED STATES PATENT OFFICE.

EVERETT H. MASON, OF CLARKSVILLE, TEXAS.

BUGGY-TOP SUPPORT.

SPECIFICATION forming part of Letters Patent No. 779,725, dated January 10, 1905.

Application filed June 22, 1904. Serial No. 213,633.

To all whom it may concern:

Be it known that I, EVERETT H. MASON, a citizen of the United States, residing at Clarksville, in the county of Red River and State of Texas, have invented a new and useful Buggy-Top Support, of which the following is a specification.

The invention relates to improvements in buggy-top supports.

The object of the present invention is to improve the construction of buggy-top supports and to provide a simple and comparatively inexpensive device adapted to be readily applied to a buggy or analogous vehicle and capable of ready adjustment to accommodate itself to the distance between the pivots of the carriage-top and the brace or prop.

A further object of the invention is to provide a device of this character capable of affording a resilient support for a buggy-top when the same is lowered and capable also of effectively cushioning the same on all kinds of roads.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended, it being understood that various changes in the form, proportion, size, and minor details of construction within the scope of the claims may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a side elevation of a buggy-top support constructed in accordance with this invention and shown applied to a buggy-top, the latter being raised. Fig. 2 is a similar view, partly in section, illustrating the arrangement of the parts when the buggy-top is lowered. Fig. 3 is an enlarged longitudinal sectional view illustrating the construction of the adjustable device for supporting the spring. Fig. 4 is a vertical sectional view of the rear portion of the buggy-top support. Fig. 5 is a detail view taken substantially on the line 5 5 of Fig. 3. Fig. 6 is a detail view illustrating the construction for slidably connecting the buggy-top support with the rear bow.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates a spring extending longitudinally of the buggy, at the side thereof, and consisting of an inclined front portion and a substantially semicircular rear portion which curves downwardly at the back of the seat, as clearly illustrated in Figs. 1 and 2 of the drawings. This spring, which forms a yieldable support for the buggy-top to cushion the same on rough roads, is connected with the front bolt 2, which forms the pivot for the buggy-top 3, and with the rear bolt 4, which forms the pivot for the brace or prop 5, by an adjustable supporting device consisting of a rear frame or member 6 and a front bar or member 7. The front bar or member and the rear frame or member are slidable on each other to enable the support for the spring to be readily adjusted and varied in length to suit the distance between the pivots 2 and 4, whereby the buggy-top support is adapted to be readily applied to any ordinary buggy-top. The front bar 7, which is arranged in substantially a horizontal position, has its front end bent upward and provided with an eye 8 to receive the front pivot-bolt 2, and it has its side faces arranged vertically, as clearly shown in Fig. 5 of the drawings. The rear member or frame 6 consists of a bar having its side faces arranged horizontally in a plane at right angles to the side faces of the front bar or member 7. The rear end of the bar or piece of which the frame 6 is constructed is bent or partially coiled to form an enlarged eye or loop 9 to receive the rear pivot 4, and the terminal of the lower portion of the eye or loop 9 is coiled to form a reduced eye 10 for the reception of a pivot 11, which connects a pair of links 12 with the rear portion of the frame. The links 12 are connected at their lower ends by a pivot 13 with the rear end of the spring 1, whereby the rear end of the latter is hung from the frame. The links 12 are capable of oscillation to enable the spring to yield to any vibration of the buggy-top, as hereinafter explained. The pivots 11 and 13 preferably consist of bolts or pins provided at one end with a head and

at the other end with a nut; but they may be constructed in any other desired manner, as will be readily understood. The front portion of the bar constituting the frame 6 is bent upon itself to provide a depending hanger-loop 14, which is substantially oblong and which terminates in an eye 15, located at the upper terminal of the rear end of the loop 14. The front and rear ends of the loop 14 are provided with slots 16 and 17 for the reception of the rear portion of the front bar or member 7, whereby the front and rear members of the adjustable support for the spring are slidably connected and adapted to move freely on each other to vary the length of the support. The frame 6 is provided at its front end with a pair of upwardly-extending ears 18, consisting, preferably, of a plate or piece riveted or otherwise secured to the lower face of the frame and having its terminals bent upwardly at opposite sides thereof, as clearly shown in Fig. 5. The ears 18 are pierced by a pivot 19, which also passes through an eye 20 of the front end of the spring, whereby the latter is connected with the frame.

The eye 15 at the rear end of the depending loop receives a pivot 21, which connects a pair of bars or members 22 with the frame. These bars or members 22 extend upwardly from the frame 6 to the rear bow of the carriage-top and are slidably connected with the same by means of a pair of rollers 23 and connecting links or plates 24. The connecting links or plates 24, which are located at opposite sides of the rear bow, are perforated for the reception of pivots 25 and 26, which form axles for the rollers 23. The rear pivot 26 passes through perforations of the upper ends of the oscillatory bars or members 22 and connects the same with the links and the rollers. The rollers are adapted to slide freely on the rear bow when the carriage-top is raised and lowered, and the bars or members 22 will oscillate with the rear bow, as will be readily understood.

The inclined front or upper portion of the spring is provided with a seat 27, consisting of a pair of plates arranged on the upper and lower faces of the inclined portion of the spring and extended beyond the same, the extended laterally-projecting portions of the plates being secured together by rivets 28; but any other suitable means may be employed for connecting the ends of the plates, or the seat may be mounted on the spring in any other desired manner. The projecting portions of the seat are arranged in the path of the oscillatory bars or members 22, and when the buggy-top is lowered the oscillatory bars or members 22 rest upon the projecting portions of the seat, whereby the spring is adapted to yieldably support the carriage-top and cushion the same when the vehicle is passing over a rough roadway. The spring is adapted to yield to any vibration of the buggy-top, and the depending links 12, which are connected with the rear end of the spring, will oscillate to permit the rear portion or loop of the spring to expand and contract.

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

1. A buggy-top support, comprising a spring supported at its ends and having an intermediate portion arranged to support a buggy-top, and means connected with the buggy-top for engaging the spring.

2. A buggy-top support, comprising a longitudinal spring provided between its ends with a seat arranged to support a buggy-top, and means connected with the buggy-top for engaging the seat.

3. A buggy-top support, comprising a spring, and a movable member connected with the buggy-top and arranged to engage the spring when the top is lowered.

4. A buggy-top support, comprising a spring, and a pivotally-mounted oscillatory member slidably connected with the buggy-top and movable toward and from the spring, said member being arranged to engage the spring when the buggy-top is lowered.

5. A buggy-top support, comprising a spring, and an oscillatory member pivoted at its lower end and slidably connected at its upper end with the buggy-top and arranged to engage the spring when the top is lowered.

6. A buggy-top support, comprising a longitudinal spring, and an oscillatory bar or member movable with the buggy-top and arranged to engage the spring at a point between the ends thereof when the buggy-top is lowered.

7. A buggy-top support, comprising a spring provided with a projecting seat, and a movable member connected with the buggy-top and arranged to engage the seat when the top is lowered.

8. A buggy-top support, comprising a movable bar or member connected with the buggy-top, and a longitudinal spring having a laterally-projecting seat arranged in the path of the movable bar or member and engaged by the same when the top is lowered.

9. A buggy-top support, comprising a spring provided between its ends with a laterally-projecting seat arranged in the path of the buggy-top, and means movable with the buggy-top for engaging the seat.

10. A buggy-top support, comprising a longitudinal spring consisting of an inclined front portion and a partially-coiled rear portion, and a movable member connected with the buggy-top for engaging the spring.

11. A buggy-top support, comprising a pair of pivotally-mounted oscillatory members, rollers arranged to engage the rear bow of the carriage-top, links connecting the rollers to

each other and with the said members, and a spring having a laterally-projecting seat arranged in the path of the said members.

12. A buggy-top support, comprising supporting means having slidably-connected members, and a spring carried by one of the members and forming a cushion for the buggy-top.

13. A buggy-top support, comprising supporting means having slidable members provided with terminal pivot-receiving eyes or openings, a spring mounted on one of the members, and means movable with the buggy-top for engaging the spring.

14. A buggy-top support, comprising supporting means provided with two members, one of the members having a depending hanger-loop slidably receiving the other member, and a top-supporting spring carried by one of the members.

15. A buggy-top support, comprising supporting means provided with two members, one of the members having a depending hanger-loop slotted to receive the other member, and a top-supporting spring carried by one of the members.

16. A buggy-top support, comprising supporting means composed of a rear member provided at its front portion with a depending loop having opposite slots, and a front member slidable in the slots, and a longitudinal spring connected with the end portions of the rear member and forming a cushion for the buggy-top.

17. A buggy-top support, comprising a rear member having its front portion bent upon itself to provide a depending hanger-loop, said loop having its front and rear portions slotted, a front member slidable in the slots of the loop, and a spring mounted on the rear member and forming a cushion for the buggy-top.

18. A buggy-top support, comprising a rear member having its rear end bent to form a loop to receive the pivot of the buggy prop or brace, a pair of links suspended from the rear portion of the rear member, and a longitudinal spring forming a cushion for the buggy-top and connected at its front end to the front portion of the rear member and having its rear portion curved downward and hung from the rear member by the said links.

19. A buggy-top support, comprising front and rear members slidably connected at their adjacent portions and provided at their outer portions with eyes or openings, a longitudinal spring connected at its front end to the front portion of the rear member and having its rear portion partially coiled and hung from the rear end of the rear member, and an oscillatory member mounted on the rear member and arranged to engage the spring.

20. A buggy-top support, comprising supporting means composed of two longitudinal adjustable members, a spring mounted on one of the members, an oscillatory bar also mounted on such member and arranged to engage the spring, and means for connecting the oscillatory bar with a buggy-top.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

EVERETT H. MASON.

Witnesses:

FRANK REED,

JOHN H. DOOLEY.