

No. 676,059.

Patented June 11, 1901.

M. L. WENGER.

DEVICE FOR HANGING VEHICLE BODIES.

(Application filed Apr. 13, 1901.)

(No Model.)

Fig. 1.

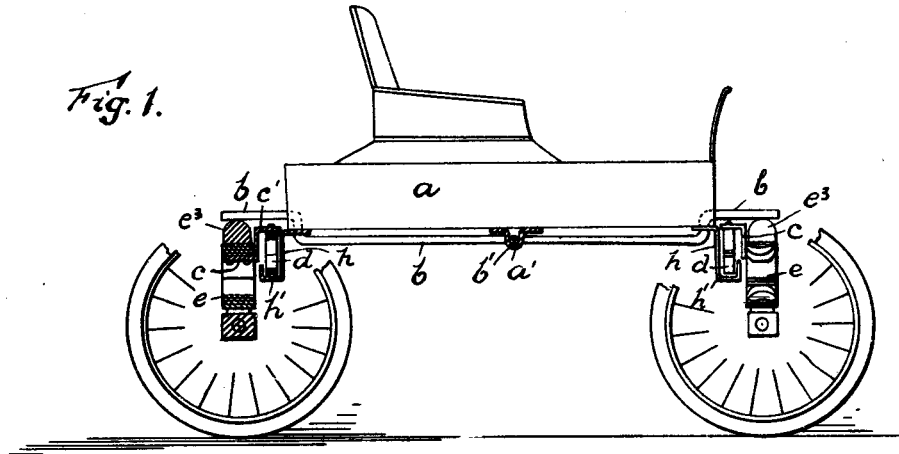
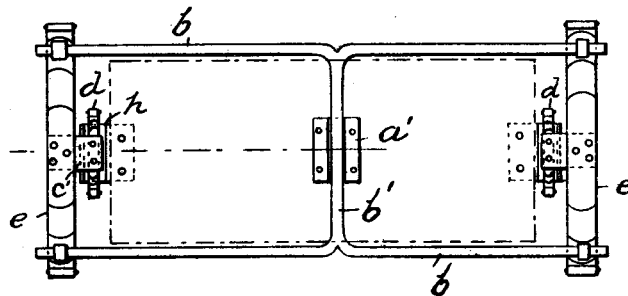


Fig. 2.



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# UNITED STATES PATENT OFFICE.

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## DEVICE FOR HANGING VEHICLE-BODIES.

SPECIFICATION forming part of Letters Patent No. 676,059, dated June 11, 1901.

Application filed April 13, 1901. Serial No. 55,623. (No model.)

*To all whom it may concern:*

Be it known that I, MILTON L. WENGER, a citizen of the United States, residing at Reading, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Hanging Vehicle-Bodies; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in hanging vehicle-bodies to their running-gear and is applicable to nearly all vehicles supported on springs.

The object of the invention is to provide means for hanging a vehicle-body in such a manner that it will be supported at the center of its weight, allowing the body a rocking movement which is regulated at both front and rear in such a manner that the body will always retain approximately its normal position.

The invention is fully described in the following specification and clearly illustrated in the accompanying drawings.

Figure 1 is a side elevation, partly in section, of a vehicle embodying my invention. Fig. 2 is a plan view of the gear, showing the position of the body in dotted lines.

*a* denotes the wagon-body, to the under side of which at about its center is arranged a journal *a'*.

*b* denotes the shackle-irons, the ends of which rest on the end-spring bars *e*<sup>3</sup>, immediately over the end springs *e*. These shackle-irons are joined together at about their center by a cross-rod *b'*, which extends the full width of the body and rests in the journal *a'*, thus forming practically a single piece of the shackles.

*c* is an angular hanger secured to the under side of the upper half of the end spring *e* at its center, extending upwardly therefrom and having a right-angled projection *c'* extending toward the body, and to the under side of this projection is secured a supplemental spring *d*, fastened in any suitable manner, as by bolts.

To the under side of the body at about the

center I provide a reach-arm *h*, depending from the body and having its free end *h'* bent to approximately U shape and adapted to extend underneath said supplemental spring and to loosely engage the same. This construction is the same at both ends of the vehicle, and the effect produced will be apparent to all versed in the art to which this invention pertains.

The weight of the body is concentrated to a point about the center thereof—*i. e.*, the journaled hanging of the cross-rod *b'*.

When the body is depressed at either end by reason of the improper distribution of weight therein or by reason of the uneven surface over which the vehicle is traveling, the supplemental springs *d* at the opposite end will be compressed by reason of the engagement therewith of the hooked end *h'* of the reach-arm and the body will retain approximately its normal level position.

The main springs *e* will carry the total weight of the body, as heretofore, the supplemental springs merely tending to relieve it of any undue strain at either end to keep the body in approximately its normal position and to relieve it of the jar and irregular motion produced by the ordinary hanging while traversing uneven roads.

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

An appliance for hanging vehicle-bodies on their running-gear comprising a journal secured to the under side of the body at its center, shackle-irons joined at their center by a cross-rod adapted to bear in said journal, right-angled hangers *c* secured to the end springs and carrying supplemental springs *d* on their upper ends and reach-arms *h* secured to the under side of the body having their free ends passing under and loosely engaging said supplemental springs, all substantially as and for the purpose set forth.

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

MILTON L. WENGER.

Witnesses:

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