

Patented Aug. 14, 1883.



# UNITED STATES PATENT OFFICE.

HANS CHRISTIAN OHLSEN, OF CINCINNATI, OHIO, ASSIGNOR TO THOMAS T. HAYDOCK, OF SAME PLACE.

## FIFTH-WHEEL.

SPECIFICATION forming part of Letters Patent No. 283,139, dated August 14, 1883.

Application filed January 17, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, HANS CHRISTIAN OHLSEN, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Vehicles, of which the following is a specification.

My invention relates to a construction of the king-bolt, head-block plate, &c., which combine simplicity and cheapness with security.

In the accompanying drawings, Figure 1 is an under side view of the head-block and its accessories. Fig. 2 is a front elevation thereof. Fig. 3 is a fore-and-aft section of the fifth-wheel and adjuncts. Fig. 4 is a perspective view of the head-block plate and of the upper member of the fifth-wheel, together with portions of the head-block and of the perches. Fig. 5 is a perspective view of my improved king-bolt and of the middle portion of the head-block plate viewed from below. Fig. 6 is vertical section of the head-block plate on the line *x x*, Fig. 5.

The following parts may be of the represented or of any customary or suitable construction, to wit: front wheels, A, axle B, axle-bed C, lower members, D, and upper member, E, of fifth-wheel, spring and spring-bar F G, body-loops H, body I, perches J, stay-brace or guard-iron K, clips L, and screws, bolts, or rivets M.

My head-block plate N has the customary perforated fore and aft lugs, *n*, for the spring-clip, perforations *n'* for the rivets which fasten the upper member of the fifth-wheel, and perforations *n''* for the screws which attach said plate to the head-block. From the rear edge of plate N project as many lugs O as there are perches, whose forward extremities are attached to said lugs by rivets that pass through orifices in the latter. Each lug has two lips, *o'*, which embrace the perches on the sides thereof.

*e* are orifices in the upper member of the fifth-wheel, for rivets which attach it to the perches, and *e'* is an orifice for the rivet which attaches to said upper member the rear extremity of the stay-brace or guard-iron K, which, extending forward and downward in the manner shown, terminates in an eye, *k*,

which receives a stud, *p*, that extends downward from the plate P, which is perforated for the screw-threaded clip-extensions *q* of my safety king-bolt Q. The extensions *q* and stud *p* receive nuts. (See Figs. 2, 3, and 5.)

From the under side of the head-block plate project two lugs, R, whose opposing surfaces are undercut, as shown at *r* in Fig. 6, to receive and retain and constitute the socket of corresponding dovetail projections, *q'*, from the king-bolt, which having been inserted with its projections directed fore and aft, (see Fig. 5,) and then turned one-quarter around, and the parts being bolted together, as shown in Fig. 3, the king-bolt becomes securely locked in position without at all interfering with the restricted rotations of the king-bolt within the head-block, which take place when the vehicle is traversing a curve. A prolongation, *q''*, from the king-bolt, extending upward through the head-block, and through the lower limb of the body-spring, is riveted in a countersink in the latter, so as to bind all members of the fifth-wheel and their adjuncts firmly together, and also so as to afford complete security against the dropping out or dislodgment of the king-bolt.

I claim as new and of my invention—

1. The combination of the head-block plate N, having recessed socket R, and the king-bolt Q, having lateral projections *q'* to fit in the socket, and a prolongation, *q''*, to fit in the head-block, as set forth.

2. A king-bolt for fifth-wheels, formed with screw-threaded clip-extensions *q q*, dovetail lateral projections *q' q'*, and prolongation *q''*, as set forth.

3. A head-block plate for fifth-wheels, formed with fore and aft lugs, *n n*, perforations *n' n'* and *n'' n''*, lugs O O for the perches, having lips *o' o'* and perforations *o o*, and the lugs R R, forming socket on the under side of the plate, as set forth.

In testimony of which invention I hereunto set my hand.

HANS CHRISTIAN OHLSEN.

Attest:

GEO. H. KNIGHT,  
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