H. C. KOCHENSPERGER.

Wagon Standard.

No. 86,418. Patented Feb. 2, 1869.

Fig. 1.

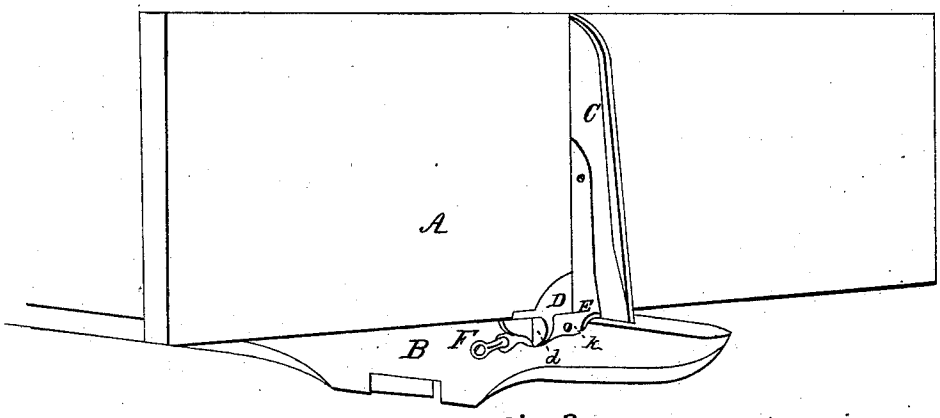


Fig. 2.

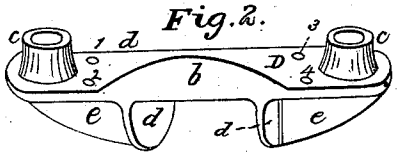


Fig. 3.

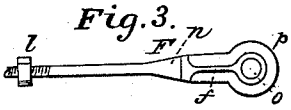
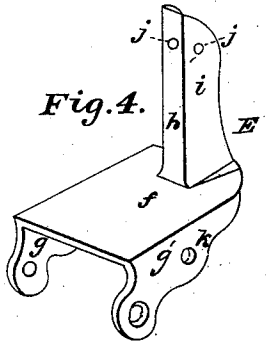


Fig. 4.



Witnesses:

F. L. Bussmann

Francis L. Clark

Inventor:

Henry C. Kochensperger

United States Patent Office.

HENRY C. KOCHENSPERGER, OF THORNVILLE, OHIO.

Letters Patent No. 86,418, *dated February* 2, 1869.

IMPROVEMENT IN BED-PLATE, BOLSTER-PLATE, AND LOCK-BRACKET FOR WAGONS.

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, HENRY C. KOCHENSPERGER, of the town of Thornville, in the county of Perry, and State of Ohio, have invented a new Combined Bed-Plate, Bolster-Plate, and Lock-Bracket for Wagons; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 shows the position and use of my invention;

Figure 2 shows the bed-plate detached;

Figure 3, the lock-bracket detached; and

Figure 4, the bolster-plate.

My invention consists in constructing my bed-plate so that it can be securely fastened to the bottom of the wagon-bed, preventing the box from sliding or chafing on the bolster; in making it of such a shape as to secure the largest amount of strength with the least expenditure of material; and in the bolster-plate, on which the bed-plate rests, and which forms the upright stay, and gives a good bearing on each side of the bolster, through which the lock-bracket passes, and by which it is secured to the bolster; and also in the form of the lock-bracket, combining strength and lightness.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A, fig. 1, is the wagon-box or bed.

B, the rear bolster.

C, standard.

D, bed-plate, an enlarged view of which is shown in fig. 2.

It consists of the plate *a*, which is let into the lower side of the bottom of the wagon-bed, as seen in fig. 1.

The plate is strengthened by the curved flange, *b*, on its outer edge, which also protects the side-board of the box from jamming against the standard.

The short pipes, or hollow projections, *c c*, are cast on to the plate *a*, and are let into the bottom of the box, auger-holes being bored for that purpose. They reach quite through the bottom board, preventing the plate from being wrenched out of place, and relieve the screws 1, 2, 3, 4, from all strain.

The jaws *d d* fit on either side of the bolster, and are strengthened by the feathers *e e*.

The plate is fastened to the box with screws, which pass through the countersunk holes 1, 2, 3, and 4.

The bolster-plate E, fig. 4, is cast in one piece. It consists of the plate *f*, which rests on the top of the bolster; the sides *g g*, which clasp the bolster tightly; and the standard-stay *h*, which is strengthened by the feathers *i i*, which have countersunk holes, *j j j*, through which screws pass into the standard C.

The plate is secured to the bolster by screws passing through the holes *k k*, and by the lock-bracket, which takes the place of a bolt.

The lock-bracket F, where it passes through the bolster, is round, and has a screw-thread cut on the end, and is provided with the nut *l*. The part *m* is enlarged, as shown, so that, if the wood shrinks, the bracket may be tightened by screwing up the nut.

The rolling bar of the lock is supported by the bracket, passing through the hole *o* in the same.

The feathers *p* and *f'* strengthen the bracket, without adding materially to its weight.

The castings may be made of any suitable metal, malleable-iron castings being the best.

Operation.

When my invention is used on a wagon, as shown in fig. 1, the bed-plate D is screwed to the bottom of the wagon-box, as explained, and rests on the bolster-plate E, the jaws *d d* pressing against the sides of the bolster-plate E, preventing the box from sliding on the bolster. The plate E also protects the bolster, preventing it from coming in contact with the bed-plate. The standard-stay and its feathers strengthen and protect the standard, allowing me to dispense with the braces usually used; and the lock-bracket saves a bolt in the rear bolster, and is much stronger, lighter, and handsomer than the one now in use.

When the bed and bolster-plates are used on the forward bolster, a bolt is used in place of the lock-bracket.

Claims.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

1. The bed-plate D, having the projections *c c* and the jaws *d d* strengthened by feathers, as described.

2. The bolster-plate E, having sides *g g* and standard-stay *h*, strengthened as described.

3. In combination with the bed-plate and bolster-plate, the lock-bracket, constructed substantially as described.

H. C. KOCHENSPERGER. [L.S.]

Witnesses:

FRANCIS L. CLARK,

J. DONALDSON.