

J. L. H. MOSIER.

King-Bolts for Carriages.

No. 136,255.

Patented Feb. 25, 1873.

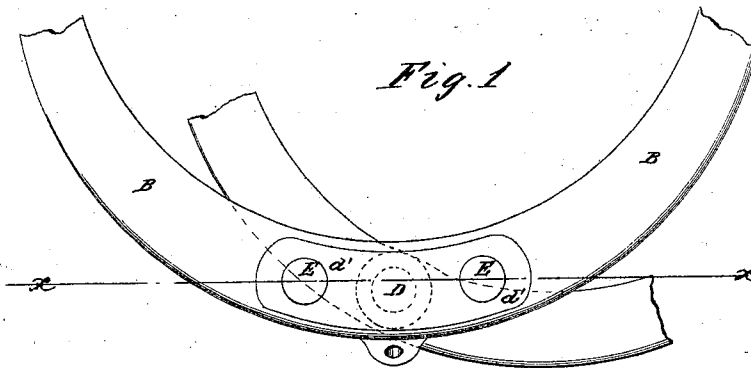
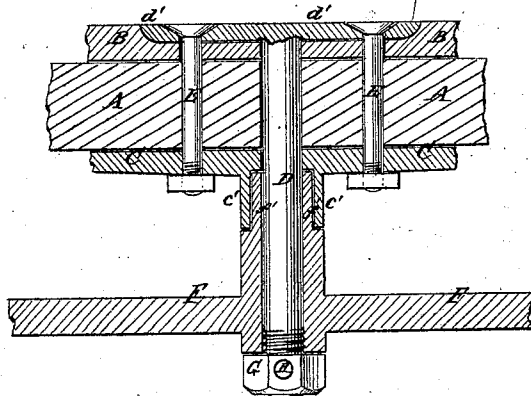


Fig. 2



Witnesses:

A. W. Almquist
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Inventor:

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per Munn & Co.
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UNITED STATES PATENT OFFICE.

JOHN L. H. MOSIER, OF NEW YORK, N. Y., ASSIGNOR TO BREWSTER & COMPANY, OF SAME PLACE.

IMPROVEMENT IN KING-BOLTS FOR CARRIAGES.

Specification forming part of Letters Patent No. 136,255, dated February 25, 1873.

To all whom it may concern:

Be it known that I, JOHN L. H. MOSIER, of the city, county, and State of New York, have invented a new and useful Improvement in King-Bolt for Platform-Carriages, of which the following is a specification:

Figure 1 is a top view of a portion of a carriage illustrating my invention. Fig. 2 is a detail section of the same, taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to improve the construction of king-bolts for platform-carriages so as to make them neat, strong, and durable, and, at the same time, give a smooth finish to the top plate of the front bed of the top carriage. The invention consists in the cross-head formed upon the king-bolt, and the corresponding recess formed in the top plate of the front bed of the top carriage, said cross-head and recess being so formed as to correspond and leave the upper surface of the cross-head flush with the upper surface of the said top plate, giving a smooth finish; and in the bolts, in combination with the cross-head of the king-bolt and with the top plate, the bed, and the bottom plate of the top carriage, as hereinafter fully described.

A is the front bed of the top carriage. B is the top plate of the front bed A. C is the bottom plate of the front bed A. D is the king-bolt, which passes down through a hole in the top plate B, front bed A, and bottom plate C. Upon the upper end of the king-bolt D is formed a cross-head, *d'*, which is made to correspond with the shape of the top plate B, and

is let into a recess formed in the upper side of the middle part of the top plate B, which recess is made of such a depth that the upper surface of the head *d'* may be finished flush with the surface of the top plate B, thus giving a perfectly-smooth finish to the upper side of said top plate. E are two bolts, which pass through the end parts of the cross-head *d'* of the king-bolt D, through the top plate B, the bed A, and bottom plate C; and their heads are countersunk into the said cross-head, so as to be flush with its upper surface. The bolts E are secured in place by nuts screwed upon their lower ends. Upon the lower side of the bottom plate C, around the hole through which the king-bolt D passes, is formed a socket, *C'*, sufficiently large to receive the thimble *f'* formed upon the frog F, and through which the king-bolt D passes, as shown in Fig. 2. Upon the lower end of the king-bolt D is screwed a nut, G, which is secured in place and kept from working off by a small transverse bolt, H, passing through a hole in the said nut G and in the said bolt D, and which is secured in place by a small nut screwed upon its forward end.

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

The combination with the bed A of the curved cross-headed king-bolt D *d'*, recessed top plate B, bottom plate C, and bolts E E, as and for the purpose described.

JOHN L. H. MOSIER.

Witnesses:

JAMES T. GRAHAM,
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