

No. 817,303.

PATENTED APR. 10, 1906.

T. W. DONAHOO.

KING BOLT.

APPLICATION FILED APR. 3, 1905.

FIG. 1

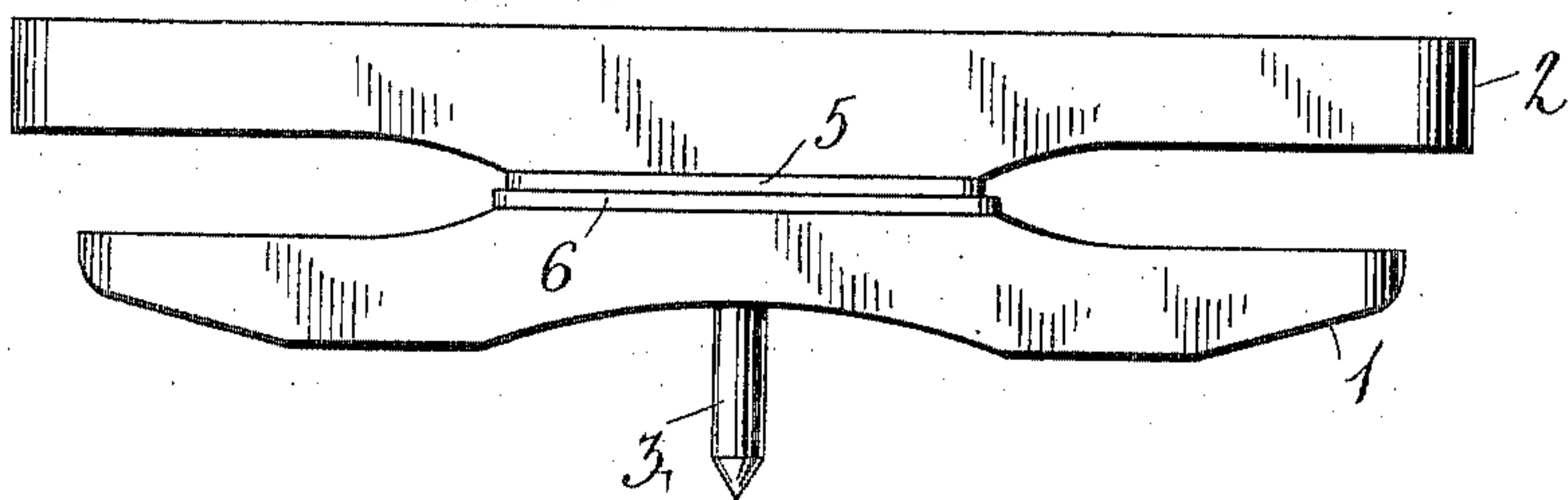


FIG. 2

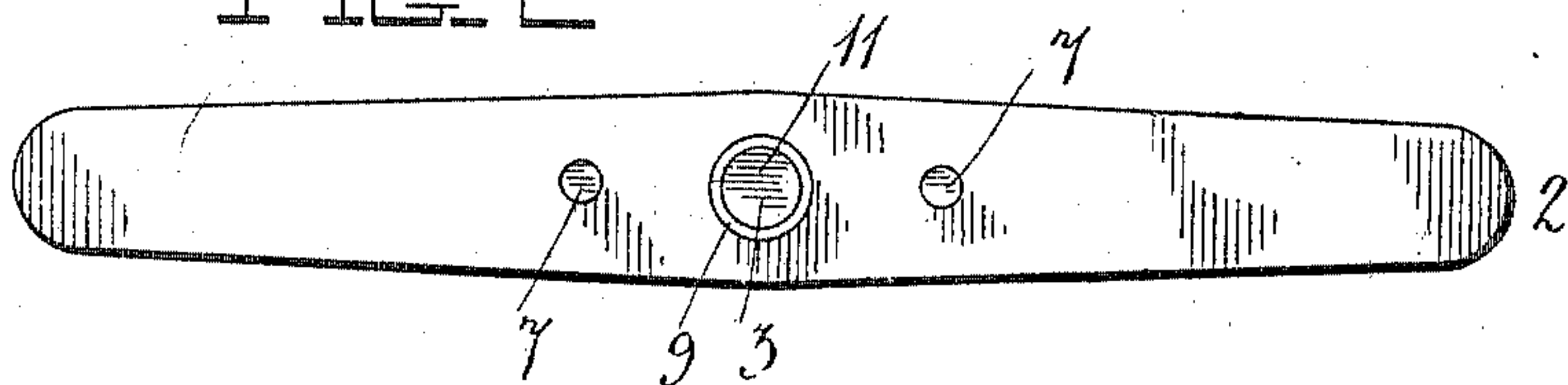


FIG. 3

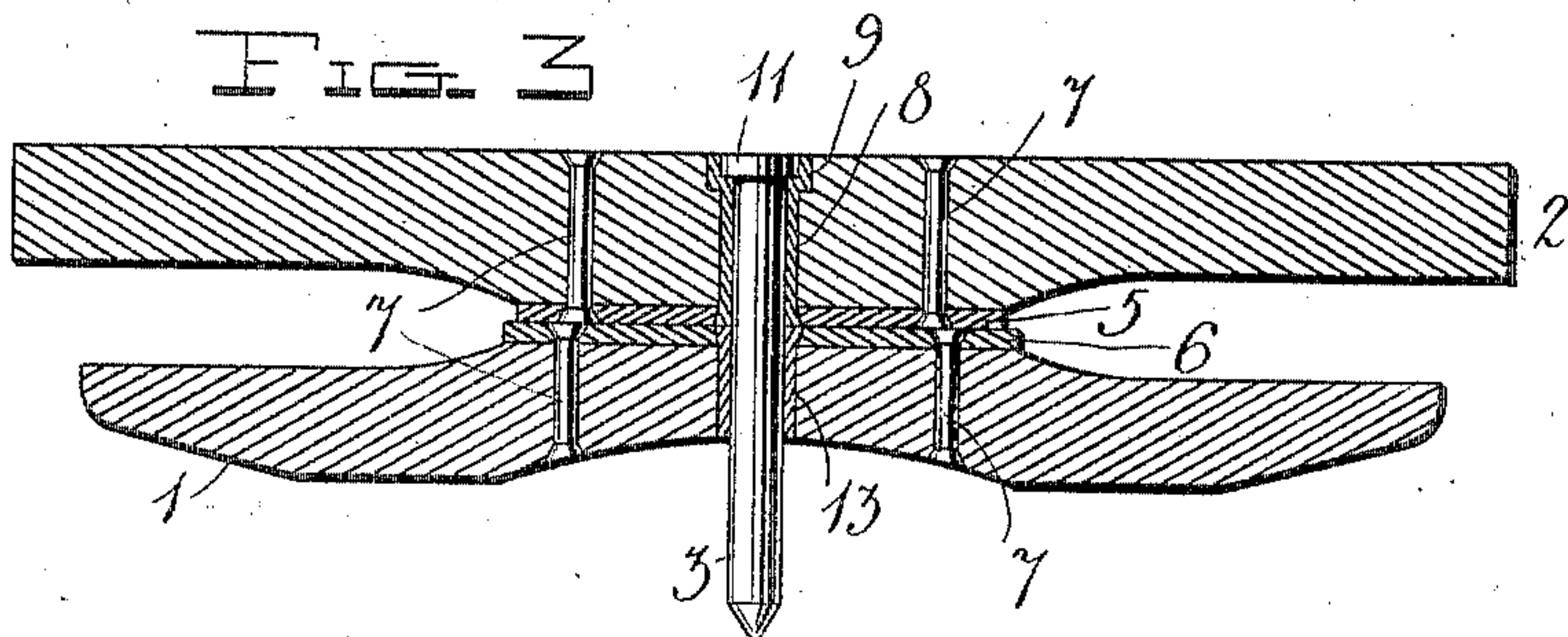
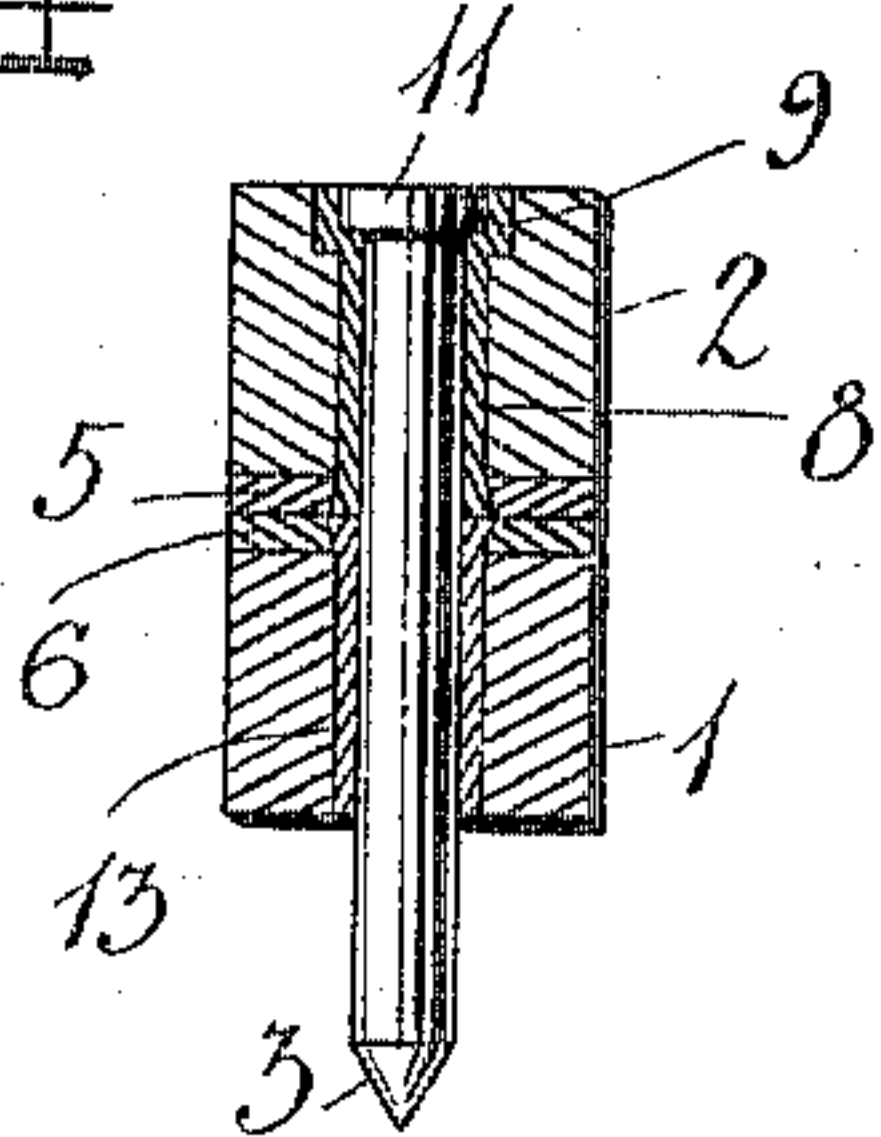


FIG. 4



Witnesses

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# UNITED STATES PATENT OFFICE.

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## KING-BOLT.

No. 817,303.

Specification of Letters Patent.

Patented April 10, 1906.

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*To all whom it may concern:*

Be it known that I, THOMAS W. DONAHOO, a citizen of the United States, residing at Tishomingo, Chickasaw Nation, Indian Territory, have invented certain new and useful Improvements in King-Bolts; and I do 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.

My invention relates to improvements in casings or boxings for the king-bolts of wagons and other vehicles.

The object of the invention is to provide a simple and inexpensive device of this character which will protect the bolster and sand-board against wear and the king-bolt against breakage, thereby materially prolonging the lives of these parts.

With the above and other objects in view the invention consists in certain novel features of construction, combination, and arrangement of parts, as will be hereinafter more fully described, and particularly pointed out in the appended claim.

In the accompanying drawings, Figure 1 is a side elevation of a bolster and sand-board, showing the application of my invention thereto. Fig. 2 is a top plan view of the same. Fig. 3 is a vertical longitudinal sectional view, and Fig. 4 is a vertical transverse sectional view.

Referring to the drawings by numeral, 1 denotes a sand-board, and 2 a bolster which is disposed above the sand-board and connected thereto by a king-bolt 3. The bolster and sand-board have upon their opposing inner faces metallic wear-plates 5 and 6, which form the fifth-wheel of the wagon or other vehicle to which the device is applied. These plates 5 and 6 are substantially rectangular in form and are secured in place by bolts, rivets, or other suitable fastening means 7. The bearing or wear plate 5 upon the under side of the bolster is secured to the lower end of a cylindrical sleeve or boxing 8, which extends centrally through said bolster. This sleeve or boxing is provided for the reception of the king-bolt 3, and its upper end is formed with an outwardly-extending annular flange 9, which is countersunk in the top of the bolster, so that its upper surface lies flush with the upper surface of said bolster. Within the flange 9 at the upper end

of the said sleeve is an annular groove or recess, which is adapted to receive the head 11 of the king-bolt 3. This circular head of the king-bolt fits within the groove or recess and lies flush with the upper surface of the bolster. Secured to the lower bearing or wear plate 6 upon the sand-board 1 is a cylindrical sleeve or boxing 13, which extends through the sand-board, as shown, and is adapted to receive the lower portion of the king-bolt.

The construction, use, and advantages of the invention will be readily understood from the foregoing description, taken in connection with the accompanying drawings. It will be seen that the sleeves or boxings and the wear-plates prevent any wear of the bolster and sand-board and materially strengthen the same. It will also be noted that the device is of simple and durable construction and may be applied to any wagon or vehicle at a comparatively small cost.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

A bolster having a central vertical opening, a wear-plate on the lower side of the bolster, and secured thereto, a boxing in the opening in the bolster, having its upper end provided with an outwardly-projecting annular flange, countersunk in the bolster and provided with an internal countersink, the lower end of the boxing being secured to the wear-plate; a sand-board having a wear-plate on its upper side, secured thereto, a boxing extending through the center of the said board and having its upper end secured to the last-mentioned wear-plate, and a king-bolt extending through and connecting the boxings and having a head at its upper end in the countersink of the bolster-boxing, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

THOMAS W. DONAHOO.

Witnesses:

ED GIBSON,  
JNO. T. YOUNG.