

(No Model.)

J. J. McMANN & A. RIPPON.
BOLSTER BEARING FOR SLEDS.

No. 438,706.

Patented Oct. 21, 1890.

Fig. 1.

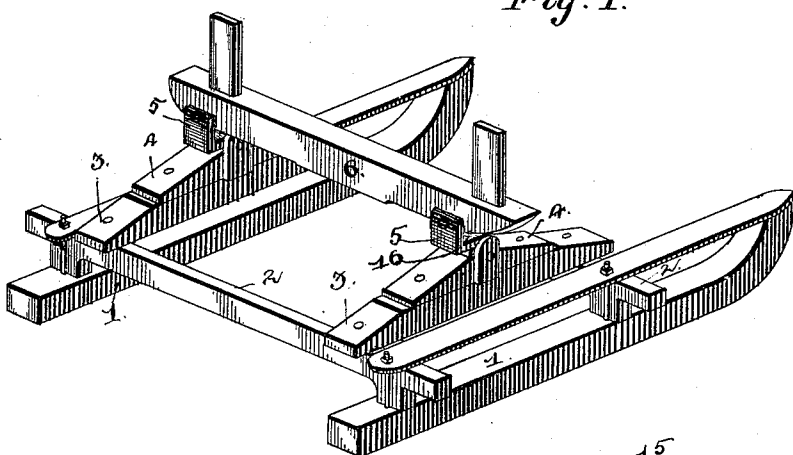


Fig. 2.

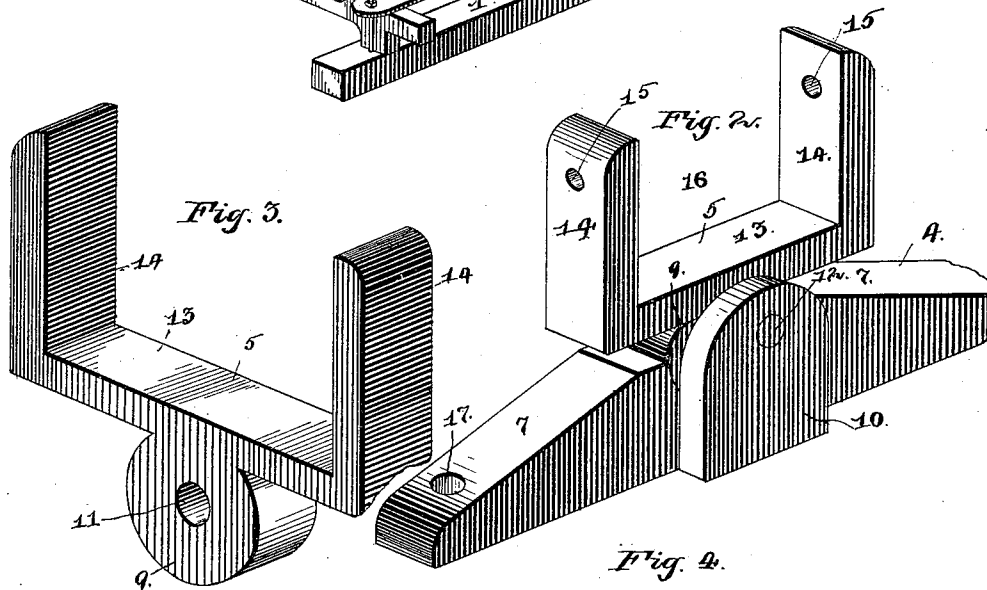


Fig. 3.

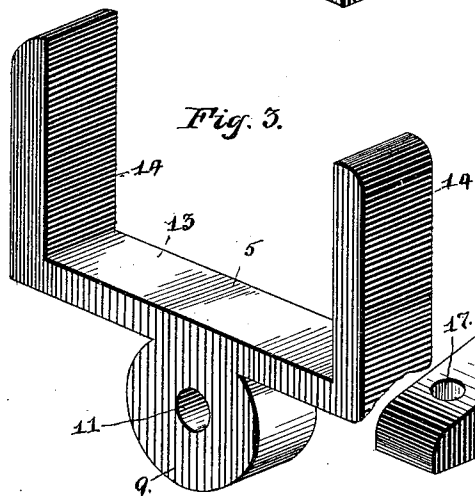
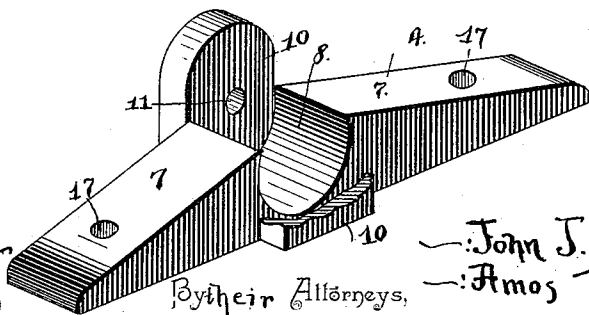


Fig. 4.



Witnesses

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By their Attorneys,

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UNITED STATES PATENT OFFICE.

JOHN J. McMANN AND AMOS RIPPON, OF WAKEMAN, OHIO.

BOLSTER-BEARING FOR SLEDS.

SPECIFICATION forming part of Letters Patent No. 438,706, dated October 21, 1890.

Application filed June 2, 1890. Serial No. 353,940. (No model.)

To all whom it may concern:

Be it known that we, JOHN J. McMANN and AMOS RIPPON, citizens of the United States, residing at Wakeman, in the county of Huron and State of Ohio, have invented a new and useful Bolster-Knuckle for Sleigh-Knees, of which the following is a specification.

The invention relates to improvements in bolster-knuckles for sleigh-knees.

The object of the present invention is to provide a simple and inexpensive bolster-knuckle capable of affording an easy rocking motion to the bolster and of equally distributing the wear upon the parts without strain upon the coupling-bolt.

The invention consists in the construction and novel combination and arrangement of parts, hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

In the drawings, Figure 1 is a perspective view showing the knuckle applied in operative position to a bolster and sleigh-knees. Fig. 2 is a similar view of the knuckle detached. Figs. 3 and 4 are detail views of the hinged casting and the socket-block.

Referring to the accompanying drawings, 1 designates sleigh-runners connected by beams 2 and having secured to their saddles 3 socket-blocks 4, to which are hinged castings 5, that support the bolster 6. The block 4 is approximately triangular in longitudinal section and has its upper face 7 oppositely inclined, and is constructed of suitable metal, and is provided at its apex with a cylindrical socket 8, in which is arranged an eye 9, formed integral with the casting 5. The block 4 is provided with integral side plates 10, that are arranged upon each side of the socket, and are provided with central registering perforations 11, through which passes a coupling-bolt 12, that forms the pintle which hinges the cylindrical eye 9 of the casting 5 in the socket 8 of the block 4, and it will readily be seen that the cylindrical eye has an even

bearing in the socket and the wear is evenly distributed and there is little or no strain upon the coupling-bolt. The casting 5, which has the eye 9 formed integral with its lower portion, consists of a horizontal bar 13 and vertical flanges 14, formed integral with the bar 13 and arranged at the ends thereof, and provided with perforations 15, through which passes a bolt to secure the bolster in the recess 16. The socket-block 4 is provided with vertical perforations 17 to receive bolts for securing it to the saddle.

From the foregoing it will readily be seen that the socket-block is simple and comparatively inexpensive in construction, adapted to be readily applied to the ordinary construction of sleigh-knees, and is capable of affording an easy rocking motion to the bolster and of evenly distributing the wear with little or no strain upon the coupling-bolt or pintle.

What we claim is—

A bolster-buckle for sleigh-knees, comprising the triangular block 4, having oppositely-inclined faces 7 and provided at its apex with the cylindrical socket and the integral plates 10, arranged at the sides of the block and at each end of the socket and provided with central openings 11, concentric with the socket, the casting having the integral cylindrical eye 9, arranged in the socket and being composed of the horizontal bar 13, the vertical flanges 14, forming a recess 16, to receive a bolster, and the coupling-bolt passing through the side plate and the eye 9, substantially as described.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

JNO. J. McMANN.
AMOS RIPPON.

Witnesses:

JNO. C. DAVIS,
H. J. BALDWIN.