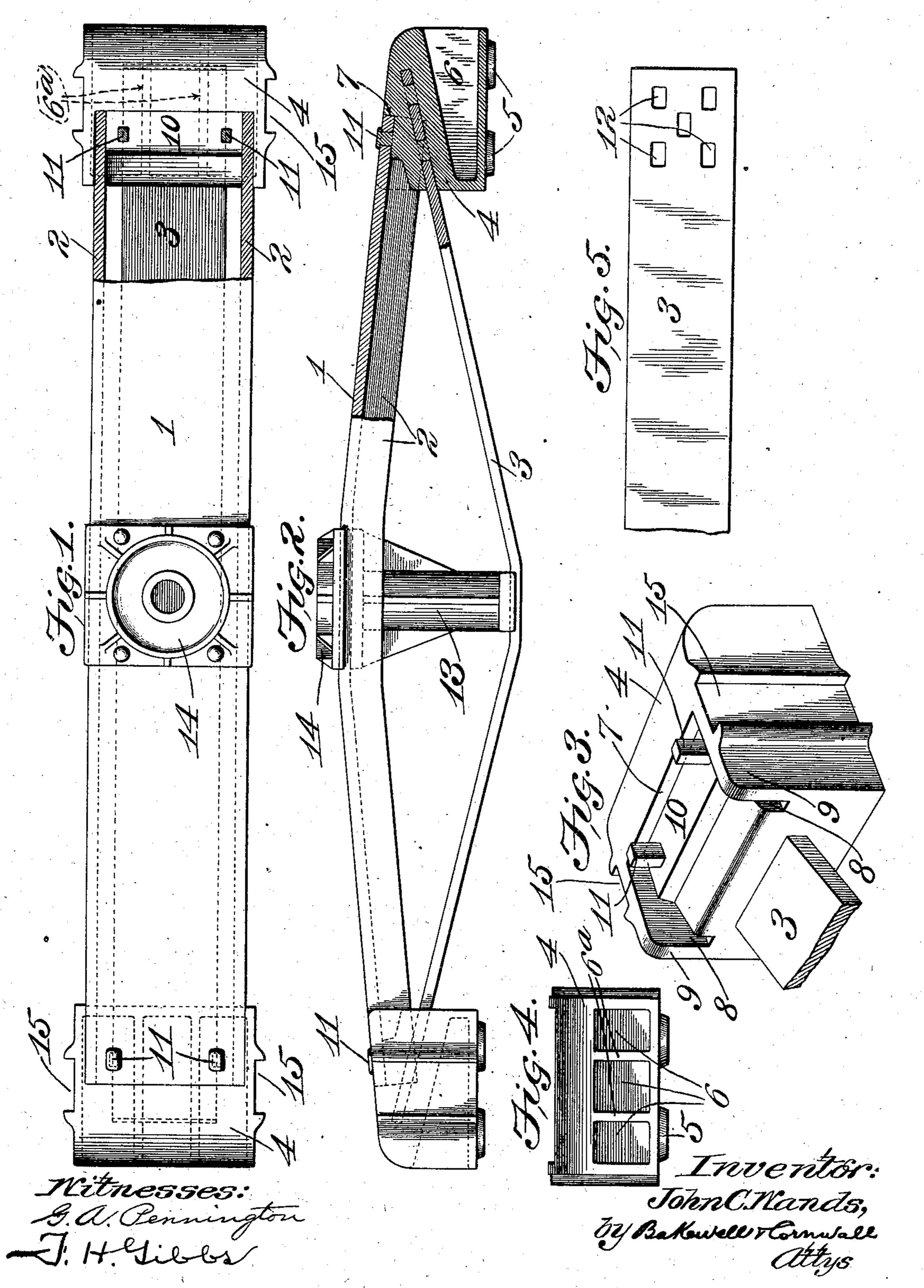
J. C. WANDS. BOLSTER.

APPLICATION FILED DEC. 18, 1902.

NO MODEL.



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United States Patent Office.

JOHN C. WANDS, OF ST. LOUIS, MISSOURI.

BOLSTER.

SPECIFICATION forming part of Letters Patent No. 724,633, dated April 7, 1903.

Application filed December 18, 1902. Serial No. 135,801. (No model.)

To all whom it may concern:

Be it known that I, John C. Wands, a citizen of the United States, residing at St. Louis, Missouri, have invented a certain new and useful Improvement in Bolsters, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a top plan view, partly broken away. Fig. 2 is a side view, partly in vertical section. Fig. 3 is an isometric perspective view of one head-block shown cast upon the end of the tension member. Fig. 4 is an end view of one head-block, and Fig. 5 is a plan view of one end of a tension member.

This invention relates to a new and useful 20 improvement in bolsters designed for use as transoms or truck-bolsters, as may be desired.

The object of the invention is to provide a light and strong bolster with a head-block which is cast upon the tension member in one integral piece, so as to form in the finished bolster an integral end portion adapted to receive the compression member.

Referring to the drawings, 1 is the compression member of the bolster, in the form of a channel slightly cambered at its middle portion and provided with the downwardly-depending flanges 2.

3 is the tension member of the bolster, in the form of a flat plate. 4 represents head35 blocks cast upon the ends of said tension member; but as both ends of the bolster are provided with head-blocks identical in form, for convenience only one will be described herein.

Upon the lower face of the head-block are spring-seats 5, above which the block is cored out at 6, the openings thereof extending to the end of said head-block, which is provided in casting with the vertical members 62, there being a plurality of such members, as illustrated in Fig. 4, wherein are shown two, though three or more may be provided, if desired. The head-blocks are also provided at their upper side with shoulders 7, against which abut the ends of the compression member 1, while vertical side channels 8, between the outer walls 9 and the central portion 10,

upon which rest the ends of said compression member, are provided for the flanges 2 of the compression member, the ends of which com- 55 pression member are preferably flush with the head-block, as best shown in Fig. 2, the head-block thus forming a thrust-block to take up end thrusts of the said compression member. Projecting upwardly from the face 60 10 are lugs 11, adapted to fit into correspondingly-shaped openings in the compression member, which lugs are afterward slightly upset to form a temporary union between the head-block and said compression member to 65 hold the parts of the bolster together when shipping and handling before being placed in position in a car. The end portions of the tension member are provided with a series of openings 12, as shown in Fig. 5, and the 70 head-block is cast upon the end of said tension member in such manner that a portion of the metal of said head-block fills the openings 12 of the tension member and the parts are held firmly together thereby, the end por- 75 tion of the tension member extending well within the head-block and preferably at such angle with relation to the compression member that lines drawn longitudinally through the tension member and compression mem- 80 ber will meet within the head-block.

13 is a strut or king-post secured in position between the compression and tension members and provided with a passage therethrough for the king-bolt.

14 is a central bearing riveted to the upper face of the compression member, and side bearings (not shown) may be secured to the compression member, if desired, while bolster column-guides 15 are provided at each side 90 of the head-block.

I am aware that minor changes in the construction, arrangement, and combination of the several parts of my device can be made and substituted for those herein shown and 95 described without in the least departing from the nature and principle of my invention.

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

1. In a bolster, a compression member, a tension member provided with a series of openings therethrough, and head-blocks cast on the ends of said tension member with a

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portion of the metal thereof within the axial line of said tension member; substantially as described.

2. In a bolster, a compression member of channel form, a tension member formed of a flat metal plate provided with a series of openings therethrough, and head-blocks cast on the ends of said tension member with a portion of the metal thereof within the axial line of said tension member; substantially as described.

3. In a bolster, a compression member, a tension member provided with a series of openings therethrough, and head-blocks cast on the ends of said tension member with a portion of the metal thereof within the axial line of said tension member, the said compression member and said tension member being so disposed within said head that a line drawn longitudinally of the compression member to the outer edge of the head-block will intersect a similar line through the tension member, within said head-block; substantially as described.

4. In a bolster, tension and compression 25 members, a cast-metal head-block formed upon the ends of the tension member thereof and having integral retaining-lugs thereon, engaging the compression member, a chamber formed in said head-block below the tension member, and a spring-seat below said chamber; substantially as described.

5. In a bolster, tension and compression members, a cast-metal head-block formed upon the ends of the tension member thereof 35 and having a seat in its upper portion for the compression member, upwardly-extending retaining-lugs thereon, a chamber formed in said head-block below the tension member, and a spring-seat below said chamber; sub-40 stantially as described.

In testimony whereof I hereunto affix my signature, in the presence of two witnesses, this 16th day of December, 1902.

JOHN C. WANDS.

Witnesses:

G. A. PENNINGTON, FREDERICK H. GIBBS.