

(No Model.)

J. PLAYER.
LOCOMOTIVE FRAME PEDESTAL.

No. 442,541.

Patented Dec. 9, 1890.

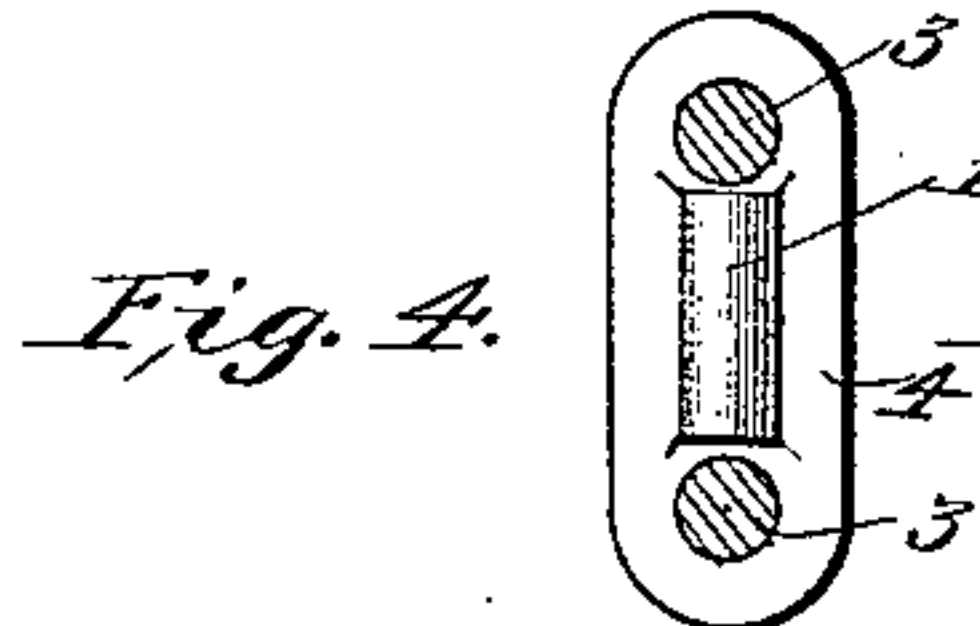
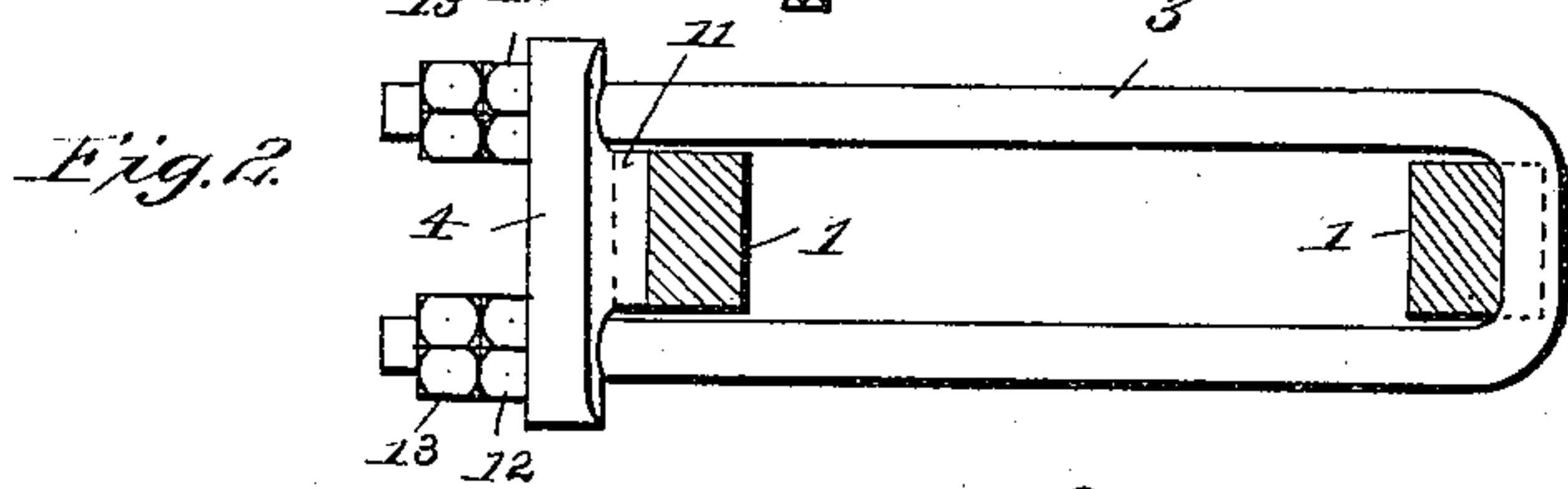
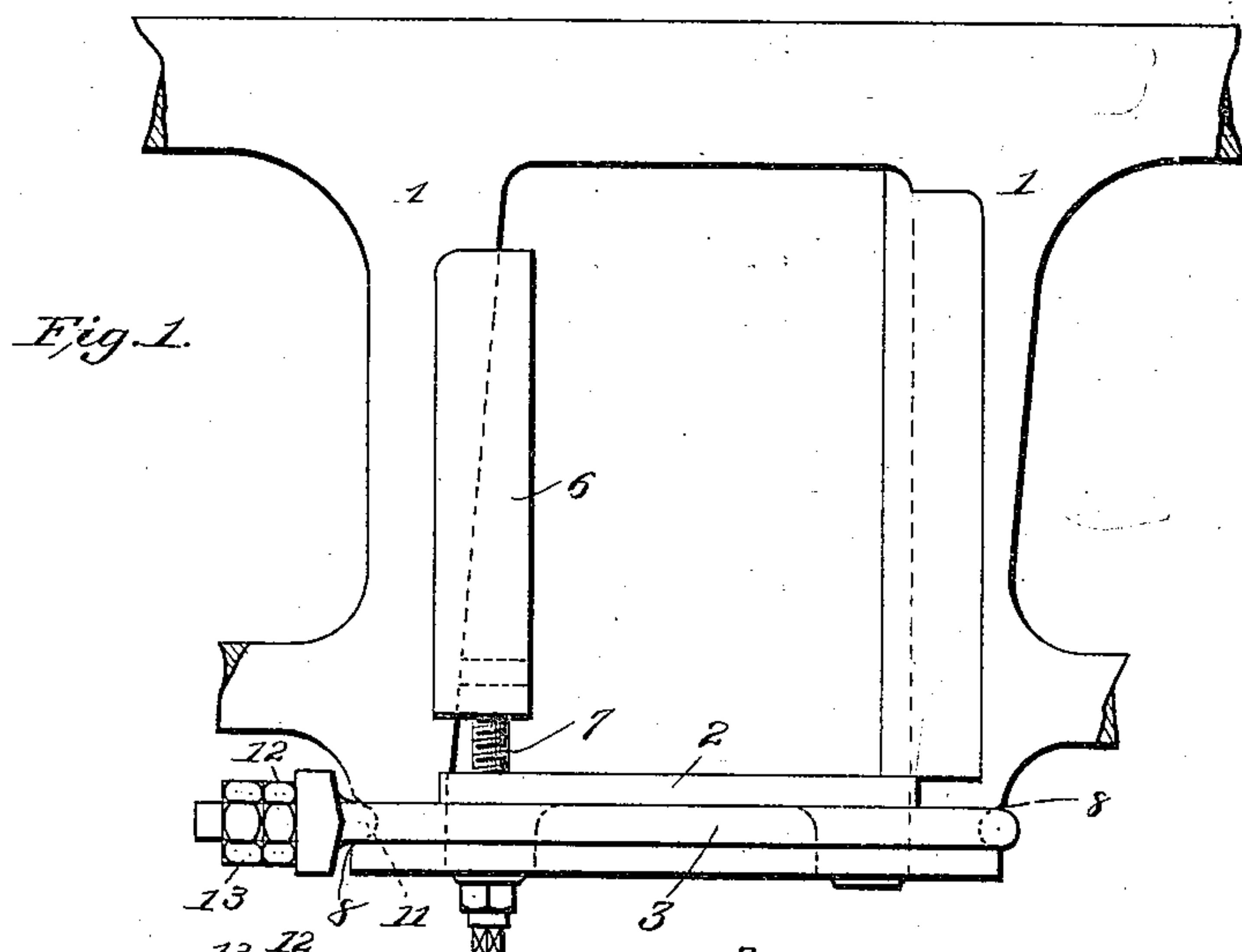


Fig. 3.

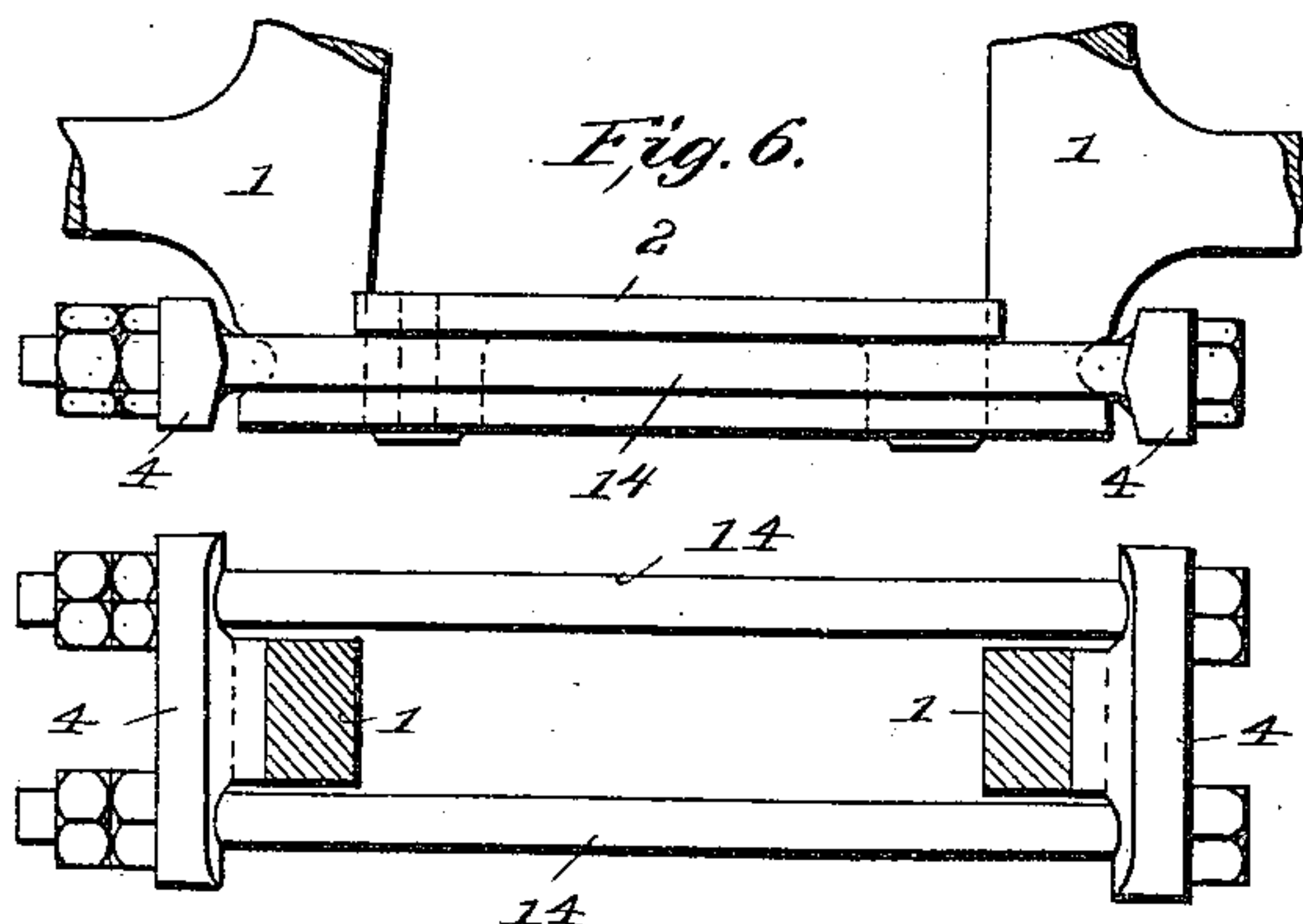
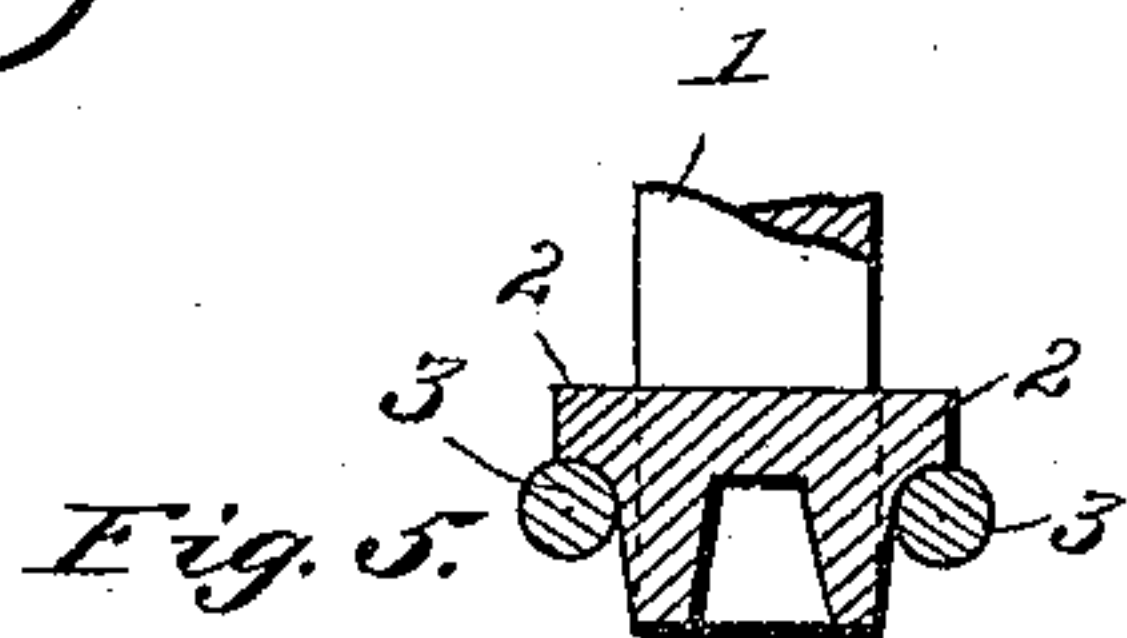
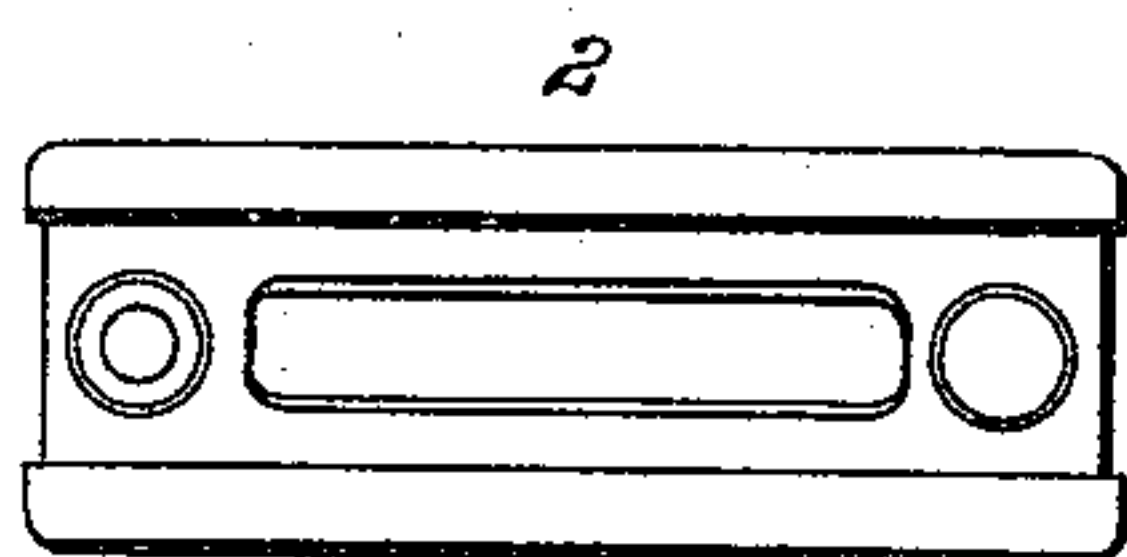
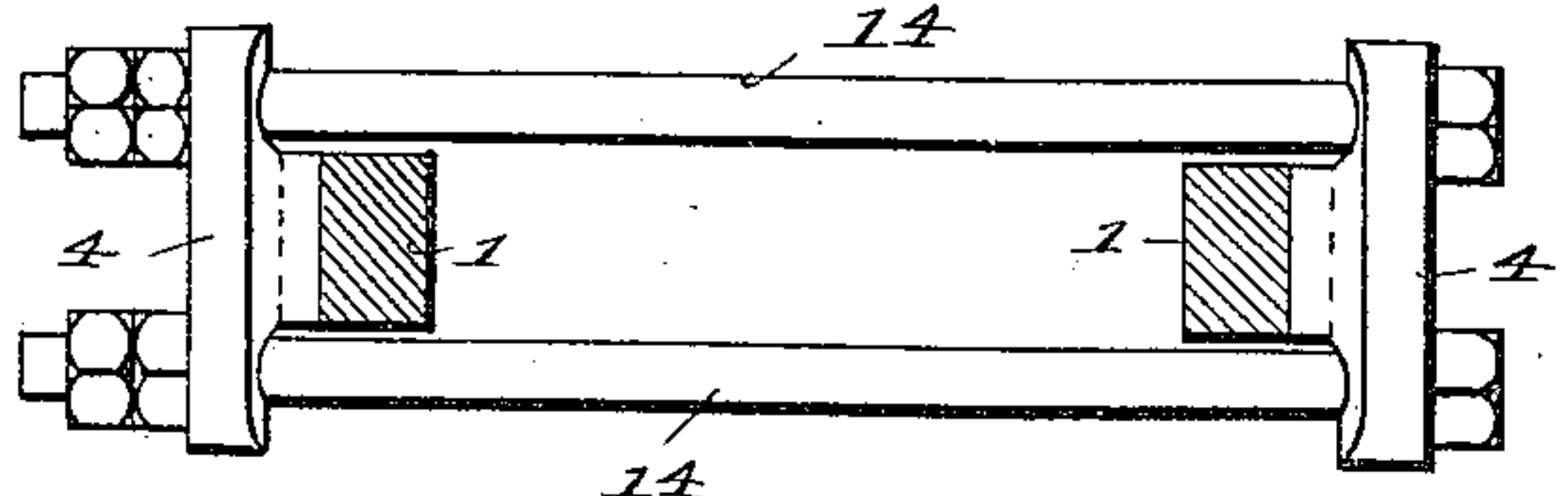


Fig. 7.



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UNITED STATES PATENT OFFICE.

JOHN PLAYER, OF DUNKIRK, NEW YORK.

LOCOMOTIVE-FRAME PEDESTAL.

SPECIFICATION forming part of Letters Patent No. 442,541, dated December 9, 1890.

Application filed November 7, 1890. Serial No. 370,659. (No model.)

To all whom it may concern:

Be it known that I, JOHN PLAYER, of Dunkirk, in the county of Chautauqua and State of New York, have made certain new and useful Improvements in Locomotive-Frame Pedestals, of which the following is a specification.

The objects of my invention are to obtain, first, greater strength and simplicity; secondly, more ready means of access for removal; thirdly, a pedestal-tie with longitudinal bolts that can be used with various forms of underhung spring-rigging and removed without disconnecting the spring-rigging to take out the bolts, and, fourthly, to use a single pedestal wedge-bolt in combination with a pedestal-tie having longitudinal bolts.

The subject-matter is hereinafter specifically designated, and clearly set forth in the accompanying drawings, which show so much of a locomotive-engine embodying my improvements as is necessary to illustrate the subject-matter thereof.

Some of these improvements may be used without the others and in machines differing somewhat in their details of construction from those herein shown, and they are equally as applicable to stationary as to locomotive engines.

Figure 1 is a vertical longitudinal elevation of part of a locomotive-frame, showing the frame-pedestal, pedestal-tie, tie-bolt, tie bolt cap, driving-box shoe, driving-box wedge, and wedge-bolt. Fig. 2 is a plan of same showing frame-pedestal legs in section and the tie-bolts and tie-bolt cap in position. Fig. 3 is an inverted plan of pedestal tie or thimble. Fig. 4 is an end view of the tie-bolt cap. Fig. 5 is a section through center of pedestal-tie. Fig. 6 is a vertical longitudinal elevation of part of frame-pedestal, pedestal-tie, &c., showing another arrangement of tie-bolts and caps. Fig. 7 is a plan of the same.

Parts not specifically described herein are of ordinary and well-known construction.

My improvements consist in the combination, with the frame-pedestal legs 1, having the recesses 8, of the tie-bolts 3, having the U-shaped connection fitting in one of said recesses 8 at one end and carrying at the other end the tie-bolt cap 4, which has the projection 11 fitting in the other of said recesses 8,

said tie-bolt being provided with the nuts 12 and locking-nuts 13, the pedestal-tie 2, fitting longitudinally between the legs 1 and transversely in the U-shaped tie-bolt 3, and a single wedge-bolt 7, screwing in the pedestal-tie 2 and having bearing in the driving-box wedge 6 for controlling said wedge; or, instead of the tie-bolts having the U-shaped connection, two distinct bolts 14 may be used and secured by a tie-bolt cap 4 at each end, as shown in Figs. 6 and 7.

My improved pedestal-tie is applied as follows: In place of the thimble fitting between pedestal-jaws and single bolt through same, requiring the use of two wedge-bolts, or the usual form of pedestal-cap lugged to bottom of pedestal and secured to same by two or more bolts, the pedestal-legs 1 are slotted out at 8, forming a recess to receive at one end the U-shaped tie-bolt 3 or the projection 11 on tie-bolt cap 4 under the heads 14 14 of the two tie-bolts and at the other end the projection 11 on the tie-bolt cap 4, the thimble or tie 2 being fitted between the pedestal-legs in the usual manner and the whole locked together by tightening the nuts 12 12 on the tie-bolts 3 3.

When it is required to remove the pedestal tie or thimble 2, it is only necessary to unscrew the nuts 12 12 sufficiently to allow the projection 11 on the cap 4 or the end of the U-shaped bolt 3 to clear the end of the pedestal-leg 1, when the whole can be removed without taking out the bolts, as is necessary in other forms of pedestal-ties.

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

1. The combination, with the pedestal having the recessed legs, of the pedestal tie or thimble fitting between said legs, and the tie-rods having connections which fit in the recesses of the legs, as and for the purpose set forth.

2. The combination, with the frame-pedestal having the legs recessed at the lower ends, of the pedestal tie or thimble fitted between the legs, the tie-rods, and the tie-rod connection consisting of the cap 4, having the projection adapted to fit the recess in the pedestal-leg, as and for the purpose set forth.

3. The combination, with the frame-pedes-

tal having the legs recessed transversely on their outer faces, of the pedestal-tie, the tie-rods, and the tie-rod caps having the projections fitting in the recesses of the respective pedestal-legs, as and for the purpose set forth.

4. The combination of the recessed legs, the U-shaped tie-bar and tie-bolt cap fitting the recesses of the legs, as and for the purpose set forth.

5. The combination of the recessed legs and the two tie-bolts and the two tie-bolt caps, said caps being made to fit in the recesses of the legs, as and for the purpose set forth.

6. The combination of the pedestal-legs, the pedestal tie or thimble, the tie-bolt and connections, and the adjusting-wedge, substantially as and for the purpose set forth.

7. The combination of the pedestal, the thimble, the tie-rods and connections, the

wedge, and wedge-screw mounted in the thimble, as and for the purpose set forth.

8. The combination of the frame-pedestal legs or jaws having transverse slots or recesses at their bottom extremities, the thimble or tie fitted between the same and having longitudinal recesses, the tie-bolt caps fitting in the pedestal-leg recesses, and the two tie-rods passing along the recesses of the pedestal tie or thimble and through the tie-bolt caps and secured by nuts, substantially as and for the purpose set forth.

In testimony whereof I have hereunto subscribed my name.

JOHN PLAYER.

Witnesses:

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