

130 BRAKES

Ans. 1

No. 810,875.

PATENTED JAN. 23, 1906.

L. P. MARTIN.  
STEAM SHOVEL SUPPORT.  
APPLICATION FILED OCT. 26, 1905.

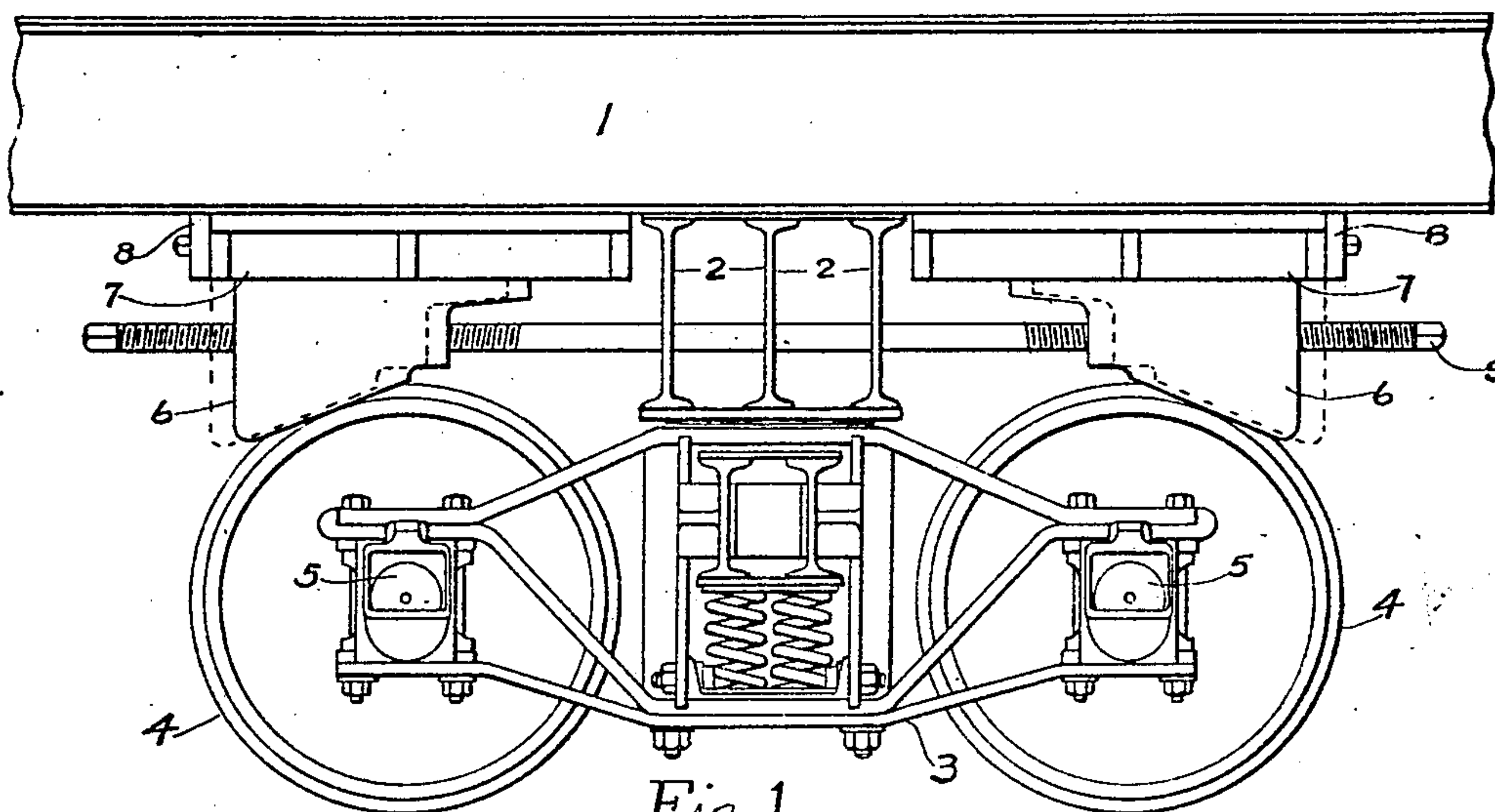


Fig. 1.

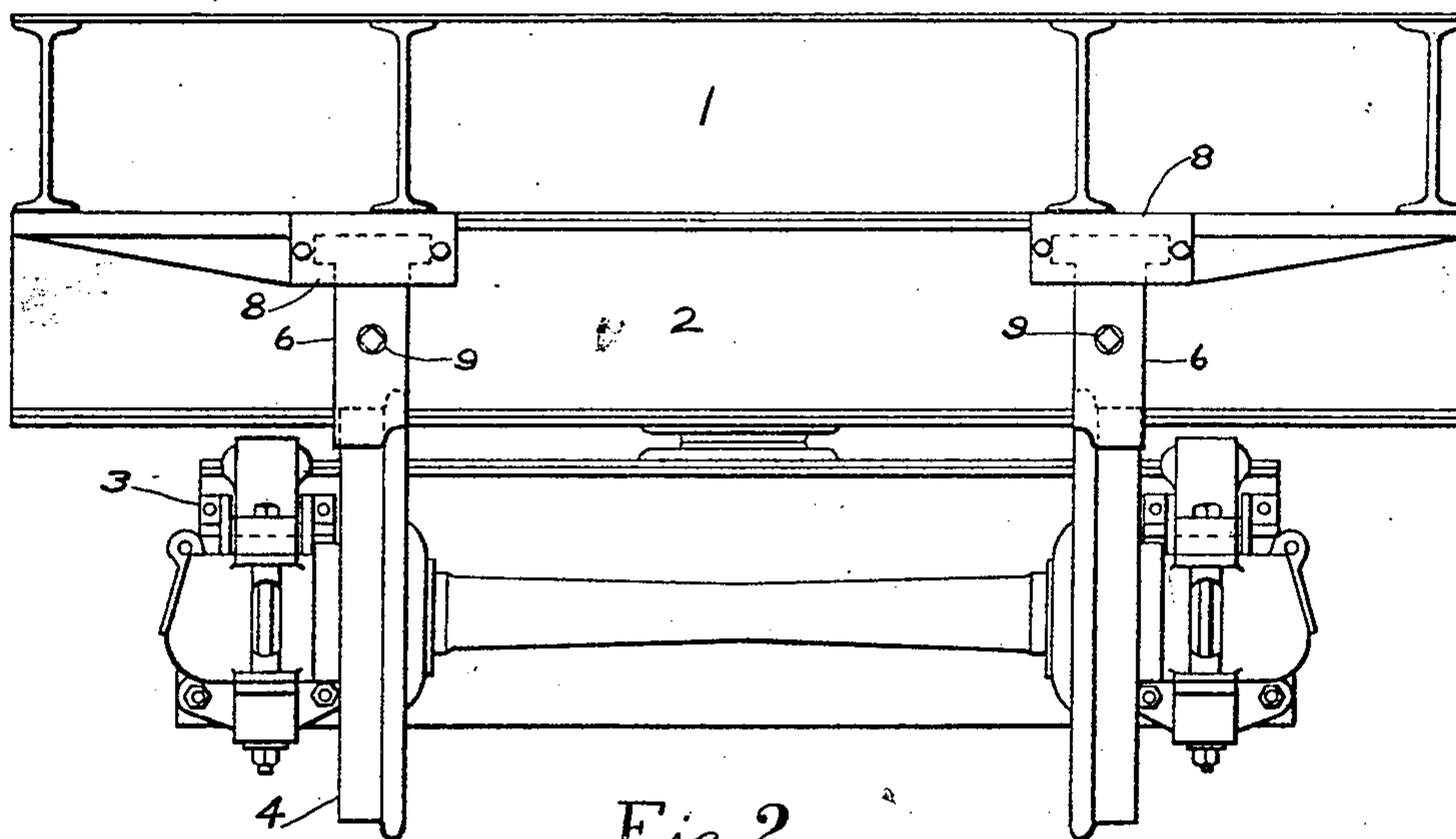


Fig. 2.

WITNESSES:

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# UNITED STATES PATENT OFFICE.

LUDOLPH P. MARTIN, OF MILWAUKEE, WISCONSIN, ASSIGNOR TO ALLIS-CHALMERS COMPANY, OF MILWAUKEE, WISCONSIN, A CORPORATION OF NEW JERSEY.

## STEAM-SHOVEL SUPPORT.

No. 810,875.

Specification of Letters Patent.

Patented Jan. 23, 1906.

Application filed October 26, 1905. Serial No. 284,427.

*To all whom it may concern:*

Be it known that I, LUDOLPH P. MARTIN, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Steam-Shovel Supports, of which the following is a specification.

This invention relates to means for maintaining two elements in spaced relation.

This invention has utility in structures wherein variation of the load tends to cause a tilting of the supporting platform or base. With steam-shovels working in soft soil the jack-arms do not have a firm foundation, and accordingly in operation tilting results, permitting excessive load on the lower side of the car-body or base. This unusual strain is a source of danger to the truck. The holding device herein disclosed positively saves the truck-framework from such injury during the operation of the shovel by taking the load from the base directly onto the wheels and maintaining a spaced relation between the wheels and base.

Referring to the drawings, Figure 1 is a side elevation, and Fig. 2 an end view of an embodiment of the invention.

The car-body 1 is mounted upon body-bolsters 2, carried by the truck-frame 3 in the usual manner. The truck-frame 3 has mounted therein the wheels 4, having axle 5 engaging the frame. Movable wedge-blocks 6 are carried by guides 7, mounted upon the car-body or base 1. These blocks 6 engage the wheel-tread and are slid into the guides 7, and then end plates 8 are bolted in position, thus preventing the blocks from working out. Engaging each pair of blocks is a rod 9, freely passing through openings therefor in the body-bolster. This rod 9 is reversely screw-threaded, so that by rotation it will simultaneously actuate the blocks toward or from each other. This rod 9 is shown with squared ends, so that a wrench may be used to turn it. However, it may be actuated by any other means—for instance, geared up to be driven by machinery.

The base 1 may have mounted upon it a steam-shovel or be subjected to a load changeable from side to side. The body-bolster being medially supported normally permits a rocking of this tiltable base. To prevent

this tilting, means are interposed to maintain the base in spaced relation from the wheels. As herein shown, this means comprises the blocks 6. It is to be noted that any change in the angular relation of the truck-frame to the base does not affect the operation of the spacing device, for the rod 9 being loosely mounted is longitudinally movable and will permit the blocks to ride into position and press with equal force against each wheel.

What is claimed, and it is desired to secure by Letters Patent, is—

1. A holding device comprising a base, a rollable member and means operable between the member and base to maintain a spaced relation therebetween.

2. A holding device comprising a base, a wheel, and means to engage the wheel and maintain the base in position.

3. A base, members movably supporting the base, and means operable between the member and base to maintain the distance therebetween.

4. A tiltable base, rollable members having axles, and means on the base to take the tilting strain off the axles.

5. A base, rollable members having treads, and means operable on the treads to maintain the base in position.

6. A base, a pair of wheels and a pair of blocks to engage the wheels and base.

7. A base, a pair of wheels, a pair of blocks guided by the base, and means to move the blocks.

8. A base, two wheels, two blocks, and means to simultaneously move the blocks onto the wheels to maintain the base in position.

9. A longitudinally-movable rotatable member, a wedge-block engaged thereby and a pair of elements spaced by the block, one of which elements is a wheel.

10. A pair of wedge-blocks, a longitudinally-movable rod, a base having guides for the blocks and wheels engaged by the blocks.

11. A base, a frame medially supporting the base, and means positively preventing tilting of the base on the frame.

In testimony whereof I affix my signature in presence of two witnesses.

LUDOLPH P. MARTIN.

Witnesses:

JOHN DAY, Jr.,  
R. M. STONE.