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JACK FOR DRAFT RODS

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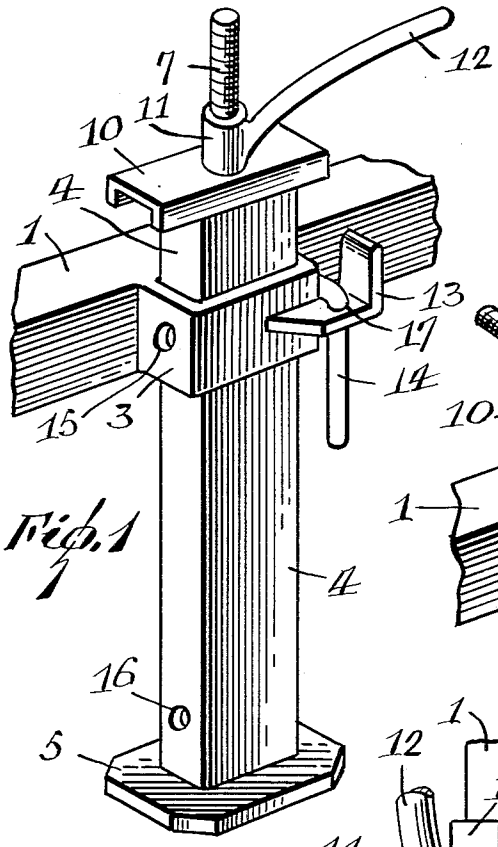

Fig. 1

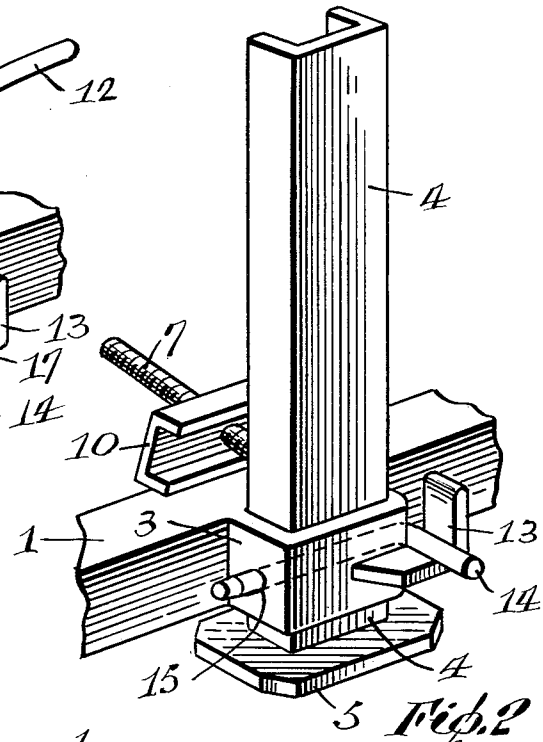

Fig. 2

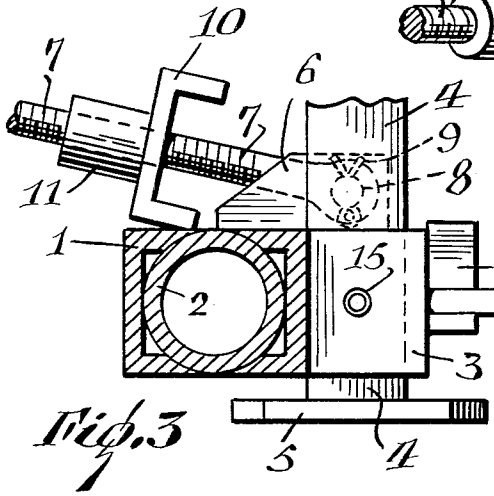

Fig. 3

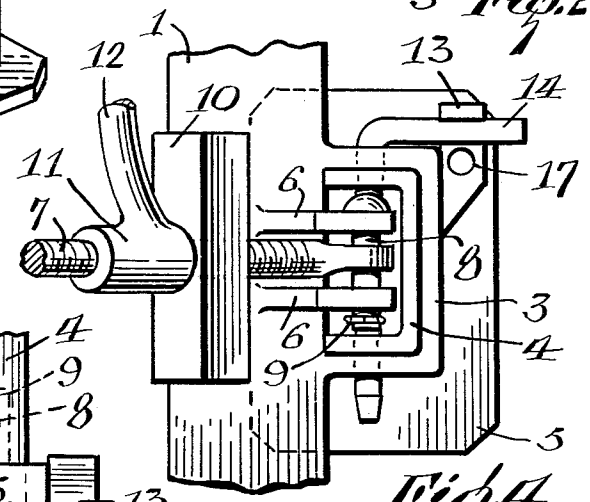

Fig. 4

Inventor:
Lucien Dion
By Albert Journeux
Attorney

United States Patent Office

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Lucien Dion, Ste. Therese de Blainville, Quebec, Canada, assignor to Dion Freres Inc., Ste. Therese de Blainville, Quebec, Canada

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2 Claims. (Cl. 280—150.5)

The present invention pertains to a novel jack for the draft rod of a heavy duty machine.

In many cases the draft rod is so heavy that it requires additional support while being coupled to the draft vehicle or tractor.

One of the objects of the invention is to provide a jack for this purpose carried permanently by the draft rod.

Another object is to provide means for holding the jack in an elevated or idle position when not in use and for quickly dropping the jack when needed for use. A further object is to provide a simple, rugged and inexpensive device for the purposes set forth.

In the accomplishment of these objects, the draft rod carries a strap in which the pedestal of the jack is slidably mounted. The pedestal is hollow and receives lugs extending from the draft rod. To the lugs is pivotally attached a jack screw carrying a slidable cap adapted at times to rest on the rod. The screw also carries a nut adapted to bear on the cap, whereby to adjust the height of the rod when the pedestal rests on the ground and the cap rests on the rod.

The invention further provides a removable locking pin for supporting the pedestal in the elevated idle position. The pin is readily removed to drop the pedestal for use of the jack.

The invention is fully disclosed by way of example in the following description and in the accompanying drawings in which:

Figure 1 is a perspective view showing the jack dropped;

Figure 2 is a similar view showing the jack released;

Figure 3 is a vertical section of Figure 2; and

Figure 4 is a plan view of Figure 2.

Reference to these views will now be made by use of like characters which are employed to designate corresponding parts throughout.

In the several figures is shown a draft rod 1 of a heavy vehicle. As stated, this member is of such weight as to require additional support in order to be coupled to a tractor or the like. The member 1 may be of hollow rectangular section and reinforced by an internal tube 2 as in Figure 3.

The rod 1 carries on one side a strap 3 welded thereto. The pedestal 4 of the jack slides vertically in the strap and carries a foot 5 at its lower end. The pedestal 4 is hollow to form a lengthwise slot in order to receive a pair of lugs 6 extending therein from the rod 1.

A screw bolt 7 is pivotally held between the lugs 6 by a headed pin 8 having a cotter pin 9 at the unheaded end. On the screw bolt is slidably mounted a cap 10 adapted to rest on the upper end of the pedestal 4 as in Figure 1, and over the cap is a nut 11 with a lever 12.

The strap 3 carries a bracket 13 spaced from the rod 1. When the jack is in the raised or idle position shown in Figure 2, an L-shaped pin 14 passes through alined apertures 15 and 16 in the members 3 and 4 respectively, and the angular end of the pin rests on the bracket. The jack is thus held raised, and the screw 7 and cap 10 are swung to a lateral position.

To use the jack, the pin 14 is withdrawn from the apertures, and its angular end is inserted in an aperture 17 in the bracket 13 merely for retention. The pedestal 4 then drops to the ground, and the cap 10 is applied on the top of the pedestal. The nut 11 is then turned by its lever 12 to support the rod 1 at the desired elevation for making the coupling to the draft vehicle.

Although a specific embodiment of the invention has been illustrated and described, it will be understood that various alterations in the details of construction may be made without departing from the scope of the invention as indicated by the appended claims.

What I claim is:

1. In combination, a horizontal draft rod, a strap at one side thereof, a hollow pedestal slidable vertically in said strap, a lug extending from said rod into said pedestal, said pedestal having a lengthwise slot, a screw pivotally attached to said lug, and adapted to pass through said slot, a cap slidably mounted on said screw and adapted to rest on the upper surface of said pedestal, and a nut on said screw at the upper surface of said cap.

2. In combination, a horizontal draft rod, a strap at one side thereof, a hollow pedestal slidable vertically in said strap, a pair of spaced lugs extending from said rod into said pedestal, said pedestal having a lengthwise slot, a screw pivotally attached between said lugs, and adapted to pass through said slot, a cap slidably mounted on said screw and adapted to rest on the upper surface of said pedestal, and a nut on said screw at the upper surface of said cap.

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