A. J. VALLÉE.

WEIGHT SUPPORTING DEVICE.

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1,366,612.

Patented Jan. 25, 1921.

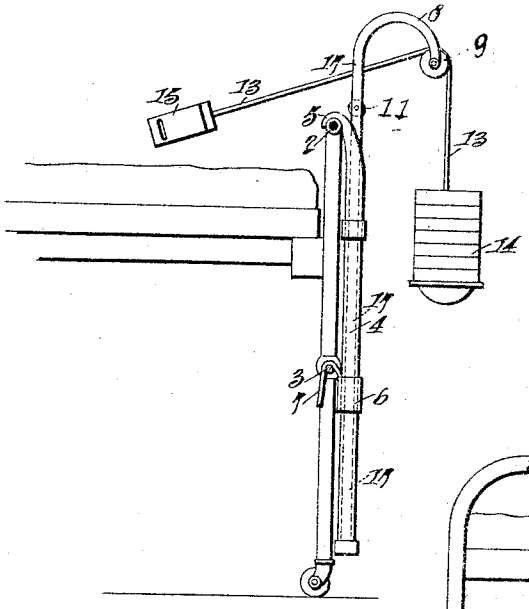


Fig. 1.

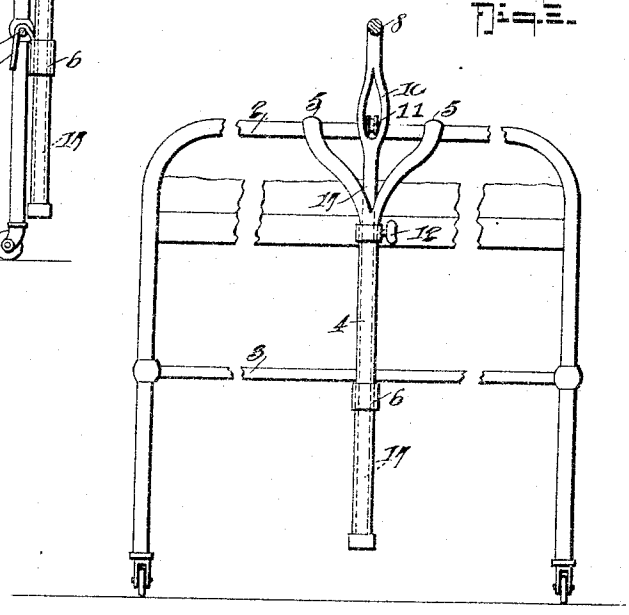
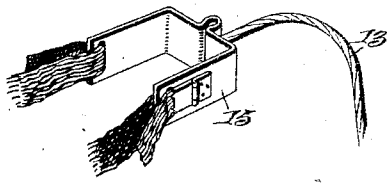


Fig. 3.

Fig. 2.



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WEIGHT-SUPPORTING DEVICE.

1,366,612. Specification of Letters Patent. **Patented Jan. 25, 1921.**

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To all whom it may concern:

Be it known that I, ALFRED J. VALLÉE, citizen of the Dominion of Canada, residing at Vancouver, in the Province of British Columbia, Canada, have invented certain new and useful Improvements in Weight-Supporting Devices, of which the following is a specification.

This invention relates to a weight supporting frame by which tension is applied to a broken limb after setting in order to hold the fractured ends of the bone slightly apart.

It is designed to form a simple, convenient and easily applied and removed device applicable to the foot of the usual hospital bed.

The invention is fully described in the following specification, reference being made to the drawing by which it is accompanied, in which:

Figure 1 is a side elevation and part section of the device as applied to the foot of the bed.

Fig. 2, an end view of the same partly in section, and

Fig. 3 is a perspective view of the stirrup loop.

In these drawings 2 represents the upper and 3 the lower rail of the foot of the bed frame.

The device comprises a tubular member 4, the upper end of which is diametrically split and spread apart, and each of the split ends is downwardly bent, as at 5, to form a hook to fit over the upper rail 2 of the bed frame.

On the tubular portion of 4 a sleeve 6 is slidable, which sleeve is provided with a downwardly directed hook 7 to engage the lower rail 3 of the bed frame. The lower end of the tubular member is closed with a cap or collar to prevent the sleeve falling off the tube.

Slidably fitting within the tube 4, from the upper or bifurcated end, is a smaller tube 17, the upper end of which is bent downward, as at 8, to form a crook, and the extreme end is split and outwardly spread to receive a sheave 9. Adjacent the bend 8 the tube is split and outwardly opened, as at 10, and in the lower end of the split a small grooved sheave 11 is introduced. The sheave carrying tube 17 is secured at any desired position of vertical adjustment in the tube 4, by a thumb screw 12 threaded in the tube, which is reinforced, as shown, with a band or sleeve to receive the thread.

The spread ends 5 of the device can be readily hooked onto the upper rail 2 of the foot of the bed frame, and the hook sleeve 7 being lifted and passed over the lower cross rail 3, the device is steadily supported against accidental dislodgment.

The straight portion of the tube 17 being passed into the tube 4 and adjusted to the required height, it is secured by the thumb screw 12. The cord 13 to which the weight 14 is connected may be passed over the sheave 9 and through the opening 10 to be connected to the foot of the patient by a bandage, the ends of which are passed through cleats or buckles in the ends of a stirrup loop 15 to which the rope is connected, as shown in Fig. 3.

The device is simple, neat and effective, and offers conveniences in application which are not present in the appliance at present in use for the same purpose.

Having now particularly described my invention, I hereby declare that what I claim as new and desire to be protected in by Letters Patent, is:

1. A weight supporting device of the class described, comprising a tubular member one end of which is diametrically split and the split ends spread part and downwardly turned to hook on the cross rail of the foot frame of a bed and support the tubular member in a substantially vertical position, a hook member slidably free on the tubular member and adapted to engage a lower cross rail of the same foot frame, a tubular member telescopically adjustable in the first named member the upper end of which second tubular member is outwardly turned and provided with a sheave adapted to receive a flexible line, one end of which is connected to the limb of a patient and the other end to a weight.

2. A weight supporting device of the class described, comprising a tubular member having provision at one end for removably suspending it in a substantially vertical

position to the cross rail of a bed foot frame, and a hook endwise slidable on the tubular member for connecting the lower end to a lower cross rail of the same bed frame, a member endwise adjustable in the tube the upper end of which member is downwardly turned and provided with a sheave, said member adjacent the bend being split and spread apart to permit passage through it of a flexible line connecting a weight suspended from the sheave to the limb of a patient in the bed.

In testimony whereof I affix my signature.

ALFRED J. VALLÉE.