F. R. ALLEN.

INVALID SUPPORTER.

APPLICATION FILED SEPT. 15, 1915.

1,208,442. Patented Dec. 12, 1916.

Fig. 1.

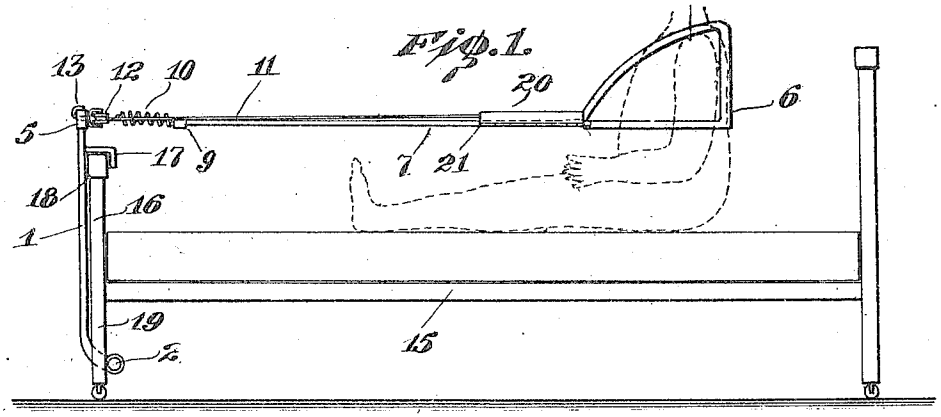


Fig. 2.

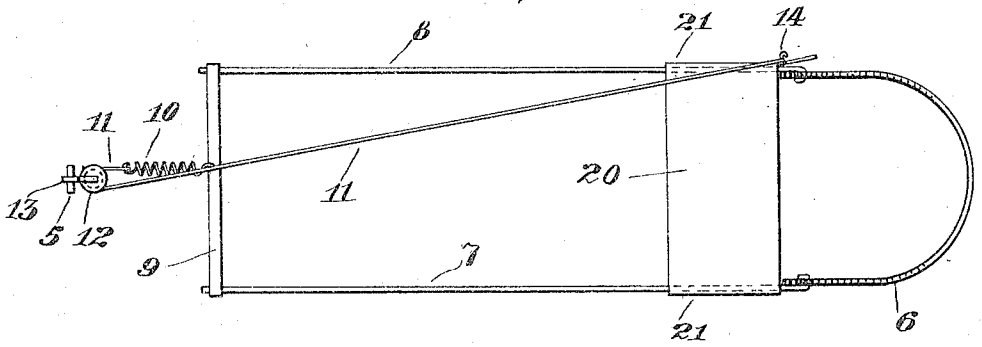


Fig. 3.

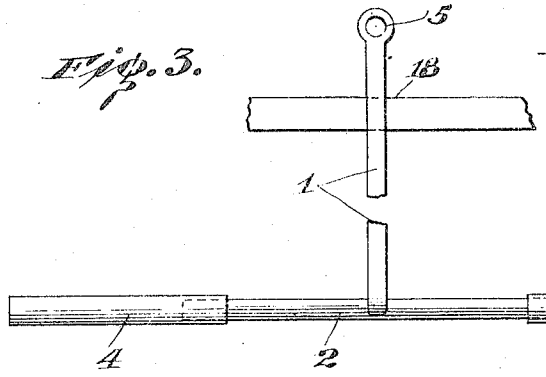
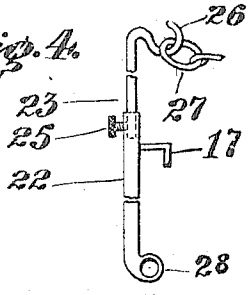


Fig. 4.



Witnesses:

C. S. Ashley

K. N. Brown

Inventor

Frank R. Allen

By his Attorney

Andrew Foulds Jr.

UNITED STATES PATENT OFFICE.

FRANK R. ALLEN, OF PASSAIC, NEW JERSEY.

INVALID-SUPPORTER.

1,208,442. Specification of Letters Patent. Patented Dec. 12, 1916.

Application filed September 15, 1915. Serial No. 50,736.

To all whom it may concern:

Be it known that I, FRANK R. ALLEN, a citizen of the United States, and resident of the city of Passaic, in the county of Passaic and State of New Jersey, have invented certain new and useful Improvements in Invalid-Supporters, of which the following is a specification.

My invention relates to improvements in invalid supporters and bed attachments, and the object of my invention is to provide a simple and convenient device for supporting weak and invalid persons and for suspending over the bed various articles, and which is adapted to be folded up into a small space when not in use.

I accomplish this object by the device illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation, Fig. 2 is a plan view, Fig. 3 is a view of the supporting frame member, and Fig. 4 is an optional form of the crane.

Similar characters refer to similar parts throughout the several views.

In cases of the convalescence or physical weakness of an invalid, it is desirable, at times, to support the invalid in a sitting position and my improved device provides a cheap, simple and convenient device for this purpose.

My device comprises a crane or post 1 carried on a cross-bar 2 provided with telescoping end sections 3 and 4. The upper end section of the crane or post 1 preferably terminates in a ring 5. I provide a sling 6, adapted to embrace the body of an invalid and to it are secured traces 7 and 8, carried by the cross arm 9, to which is preferably attached a spring member 10. A cable or like medium 11 is carried from the spring 10, over a pulley block 12, which is attached to the ring 5 of the post 1 by means of its hook section 13, and thence to a cleat 14 or the like, adjacent the sling 6.

My device is adapted to be used upon a bedstead 15, and when not in use may be folded up and kept in any convenient place. It is quickly and easily applied to any form of bed by placing the post 1 against the footboard 16 of the bedstead 15 with the supporting lug or hook 17 resting over the footboard 16. A pad of felt 18 or like material may be provided between the post 1 and the footboard 16, to prevent scratching. The telescoping end sections 3 and 4 of the cross-bar 2 are extended on the inside of the legs 19 of the foot board 16 to hold the post 1 in an upright position.

The device being thus assembled, the invalid is raised to a sitting position and placed within the sling member 6, the bands of which are placed around his body and over his shoulders, and the hook 13, carrying the block 12 and cable 11 is attached to the ring 5 of the post 1, and the cable is drawn up to the desired length and caught in the cleat 14, whereby the invalid will be supported to the desired position. When it is desired to permit the invalid to resume a recumbent position, the cable 11 is released from its cleat 14. While I prefer to use the block 12 and cable 11, these may both be omitted and the spring 10 or the traces 7 and 8 may be attached directly to the post 1 without departing from the spirit of my invention. I prefer, however, to use the spring section 10 intermediate the post 1 and the traces 7 and 8 to relieve the rigidity and to permit the invalid to rest the more comfortably. I also provide a detachable table or tray member 20, having bent over edge sections 21, which is adapted to be placed on the traces 7 and 8 for the purpose of supporting any article which the invalid may desire to use.

An optional form of post or crane is shown in Fig. 4. In this optional form I provide a post having telescoping sections, 22 and 23, provided with an adjusting set screw 24. On the upper end section of the post or crane, is formed a bent over hook 26 to which is attached the hook 13 carrying the sling 6 or a ring 27 may be substituted for the hook 13. The hook 26 may also be used for suspending a douche bag or the like device for use in treating the invalid. At the base of the post section 22 I provide a ring 28 or the like to receive the cross bar 2.

Having thus described my invention, what I claim is:

1. In a device of the character described, a bedstead, an invalid supporter, and a crane for the said supporter comprising an upright post adapted to be placed against the outside of the bedstead and bearing against the same and a cross bar secured to the lower end section of said post and comprising two telescoping members adapted to engage, when extended, the inside of the legs of the bedstead.

2. In a device of the character described,

a crane adapted to be attached to a bedstead and comprising a post whose lower end is bent out of the plane of the main portion thereof, a cross bar at the lower end of said post and also disposed out of the plane of the main portion of the post and provided with telescoping end sections, and a hook at the upper end of said post.

Signed at the city of Passaic, in the county of Passaic and State of New Jersey this 27th day of August, A. D. 1915.

FRANK R. ALLEN.

Witnesses:
M. D. COLLARD,
ROBERT M. OFFORD.