

July 28, 1931.

M. E. ANDERSON

1,816,510

PACK FRAME

Filed Oct. 9, 1930

2 Sheets-Sheet 1

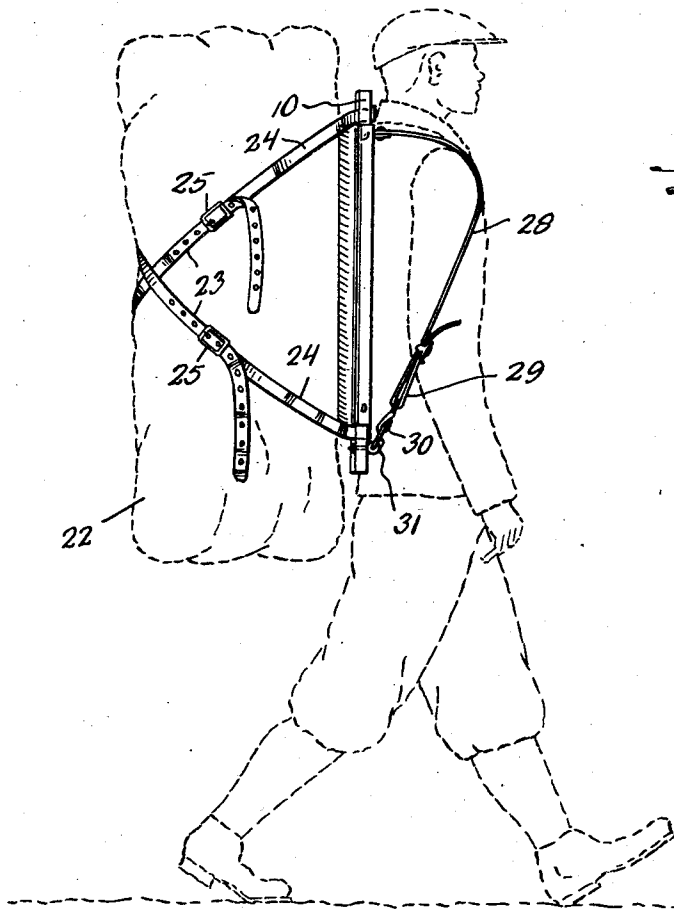


Fig. 1.

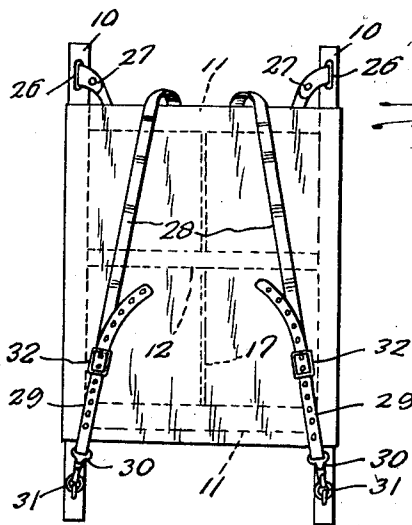


Fig. 2.

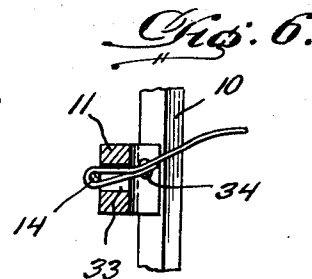


Fig. 6.

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Fig. 3.

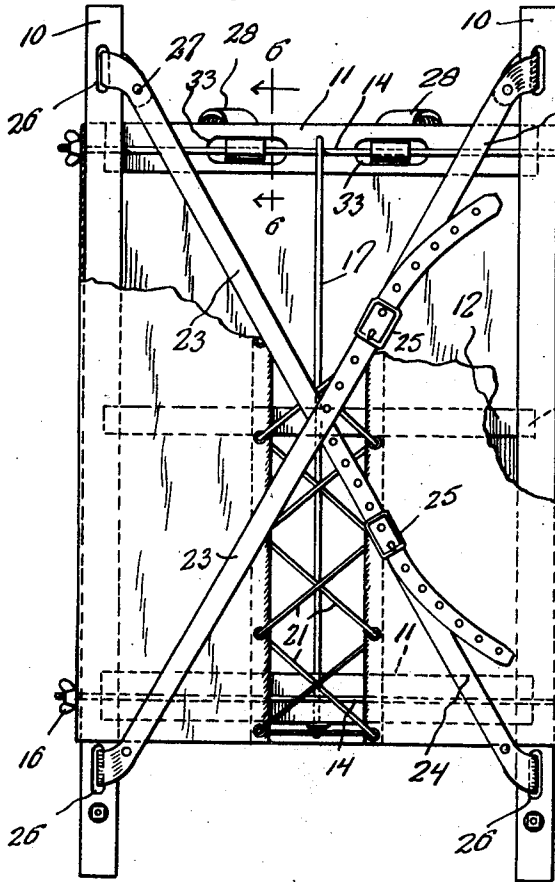


Fig. 4.

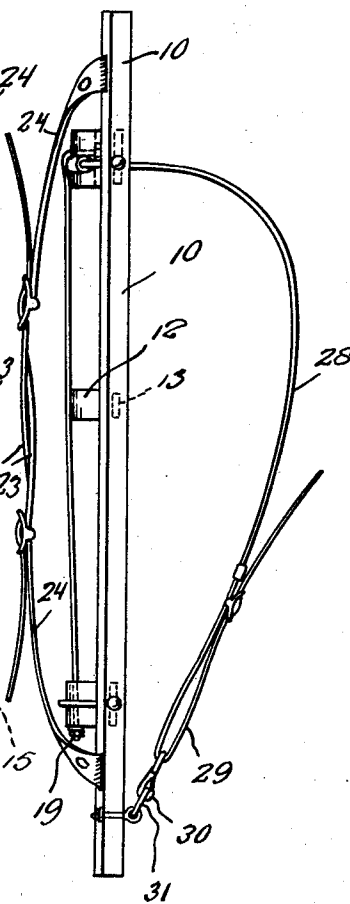
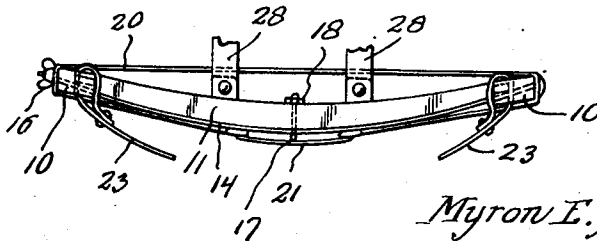


Fig. 5.



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UNITED STATES PATENT OFFICE

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PACK FRAME

Application filed October 9, 1930. Serial No. 487,597.

The present invention contemplates the provision of a pack frame for supporting a load or package adapted to be carried on the back of a person, and the invention aims to provide a frame of this character which is simple in construction and one which can be manufactured and sold at a nominal cost.

One of the chief characteristics of the present invention resides in a frame of the above-mentioned character constructed to be comfortably supported on the back of the person, and capable of accommodating itself to packs or loads of different sizes.

The nature and advantages of the invention will be better understood when the following detailed description is read in connection with the accompanying drawings, the invention residing in the construction, combination and arrangement of parts as claimed.

In the drawings forming part of this application like numerals of reference indicate similar parts in the several views and wherein:

Figure 1 is a view showing how the frame and its load is carried by the person.

Figure 2 is a front elevation.

Figure 3 is an enlarged rear elevation.

Figure 4 is a side elevation.

Figure 5 is a top plan view.

Figure 6 is a sectional view on line 6—6 of Figure 3.

The pack frame forming the subject matter of the present invention is capable of being readily knocked down or taken apart and essentially embodies spaced vertically disposed side members or bars 10 which may be constructed from any suitable material, preferably wood, and these members are spaced apart at points adjacent the upper and lower ends thereof by bowed transverse bars or members 11 and a similar intermediate bar or member 12. The side members 10 are slotted or grooved to removably receive tongues 13 carried by the ends of the bowed transverse members as illustrated. The side members 10 are detachably connected and the upper and lower transverse bowed members 11 are reinforced by metallic rods 14, which are arranged immediately behind

the members 11 and extend throughout the entire length of the latter. The extremities of each rod 14 are passed through the side members 10. Each of these rods is provided with a head 15 at one end, while the opposite end of each rod is threaded and adapted to accommodate a thumb nut 16 for drawing the side members 10 together. These transverse members are further braced and supported by a vertically disposed metallic rod 17, the upper end of which is bent at a right angle to extend across the adjacent rod 14 and pass through the adjacent transverse bowed member 11 as clearly illustrated in Figures 4 and 5. This bent extremity of the rod 17 is threaded and provided with a suitable nut 18. The rod 17 is slightly inclined so that the intermediate portion of the same will contact the intermediate transverse bowed member 12 to reinforce and brace the latter, while the lower end of the rod 17 is passed through a vertical opening formed in the lower transverse member 11, and is held in position by a suitable nut 19 threaded thereon.

The frame element thus far described is covered by a sheet of canvas or other relatively flexible material at 20, which surrounds the frame, and is of a length to completely cover all of the transverse connecting members 11 and 12 respectively, although the side members 10 of the frame project a slight distance above and below the flexible covering 20 as illustrated. This covering is passed around the side members 10 and provided with openings to receive the projecting extremities of the brace rods 14, while the free ends or longitudinal edges of this covering are connected together by a lace 21 so that the covering can be partly stretched and held tight about the frame. Upon inspection of Figure 5 it will be noted that the portion of the covering arranged in advance of the frame is spaced therefrom, so that when the frame is supported upon the back of the person, this portion of the canvas will contact the body, and serve as a cushion for the entire structure, so that the frame can be carried with both ease and comfort.

The pack or load indicated generally at

22 is adapted to be supported on the rear of the frame, and held associated therewith by straps as illustrated. Each of these straps includes a relatively long section 23 and a relatively short section 24, the latter being provided with a buckle 25 so that the length of the straps can be varied according to the size of the load 22. It will be noted however, that these straps are crossed and extend diagonally across the rear of the frame in its entirety. While these straps may be secured to the frame in any suitable manner, each side member 10 is preferably slotted adjacent its opposed ends as at 26 and the adjacent end of each strap is passed through one of these slots, looped around the side member 10, and has its free end riveted or otherwise suitably secured to the strap proper, as at 27.

The entire structure is supported on the body of the user by shoulder straps, arranged at the front and adjacent both sides of the frame, and each strap 28 has one end looped as at 29 which end carries a snap hook 30 adapted to be received by a ring 31 connected to the adjacent side member 10 adjacent the lower end thereof in any suitable manner. The looped extremity 29 of each strap also includes a buckle 32 by means of which the length of the strap can be adjusted to vary its length as the occasion may require. The upper ends of each strap 28 are passed over the upper edge of the covering 20 and are secured to the uppermost brace rod 14 for the adjacent transverse member 11. For this purpose, the member 11 is provided with spaced longitudinal slots 33, and the adjacent ends of the straps 28 are passed through these slots, around the adjacent brace rods 14, and have their free ends riveted or otherwise suitably secured to the straps proper as at 34. This construction is very clearly illustrated in Figure 6.

It will be noted that by removing the nuts 16, 18 and 19, the rods 14 and 17 may be detached, thus permitting separation of the bars 10, 11 and 12. The device may thereby be easily and quickly knocked down and carried in a small compact bundle when not in use.

While it is believed that from the foregoing description the nature and advantages of the invention will be readily understood, I desire to have it known that I do not limit myself to what is herein illustrated and described, and that such changes may be resorted to when desired as fall within the scope of what is claimed.

What I claim as new is:

1. A pack frame comprising spaced side members, bowed transversely arranged members spacing the side members, reinforcing rods connecting the side members and arranged behind said transverse members, each rod having its extremities passed through

said side members, a sheet of flexible material constituting a cover for the frame, the upper and lower ends of the side members projecting beyond the cover, load carrying straps secured to the side members and arranged at the rear of the frame, and shoulder straps carried by the frame and arranged at the front thereof.

2. A pack frame comprising spaced side members, bowed transversely disposed members spacing the side members, reinforcing rods connecting the side members and arranged behind said transverse members, each of said rods having its extremities passed through the side members, a vertically disposed reinforcing rod terminally connected with said transverse members, a sheet of flexible material surrounding the frame and constituting a cover therefor, load supporting straps carried by the side members and arranged in crossed relation at the rear of the frame, and shoulder straps carried by the frame and arranged at the front thereof.

3. A pack frame comprising spaced side members, bowed transverse members spacing the side members adjacent the upper and lower ends thereof, an intermediate transverse bowed member spacing the side members, reinforcing rods connecting the side members and arranged behind the first-named transverse members, each rod having its extremities passed through the side members, a vertically disposed reinforcing rod terminally connected with the first-named transverse member and slightly inclined to engage and reinforce the intermediate transverse member, a sheet of flexible material surrounding the frame and constituting a cover therefor, load supporting straps carried by the side members and arranged at the rear of the frame, and shoulder straps carried by the frame and arranged at the front thereof.

4. A pack frame comprising spaced side members, bowed transverse members spacing the side members, reinforcing rods connecting the side members and arranged behind the transverse members, each rod having its extremities passed through the side members, the uppermost transverse member having spaced longitudinal slots in line with the reinforcing rod thereof, a sheet of flexible material surrounding the frame and constituting a cover therefor, load supporting straps carried by the side members and arranged at the rear of the frame, and shoulder straps arranged at the front of the frame and having their lower extremities adjustably connected with the side members, the upper extremities of the shoulder straps being passed over the cover of the frame and through the slots of the uppermost transverse member and connected with the adjacent reinforcing rod thereof.

In testimony whereof I affix my signature.

MYRON E. ANDERSON.