

March 31, 1964

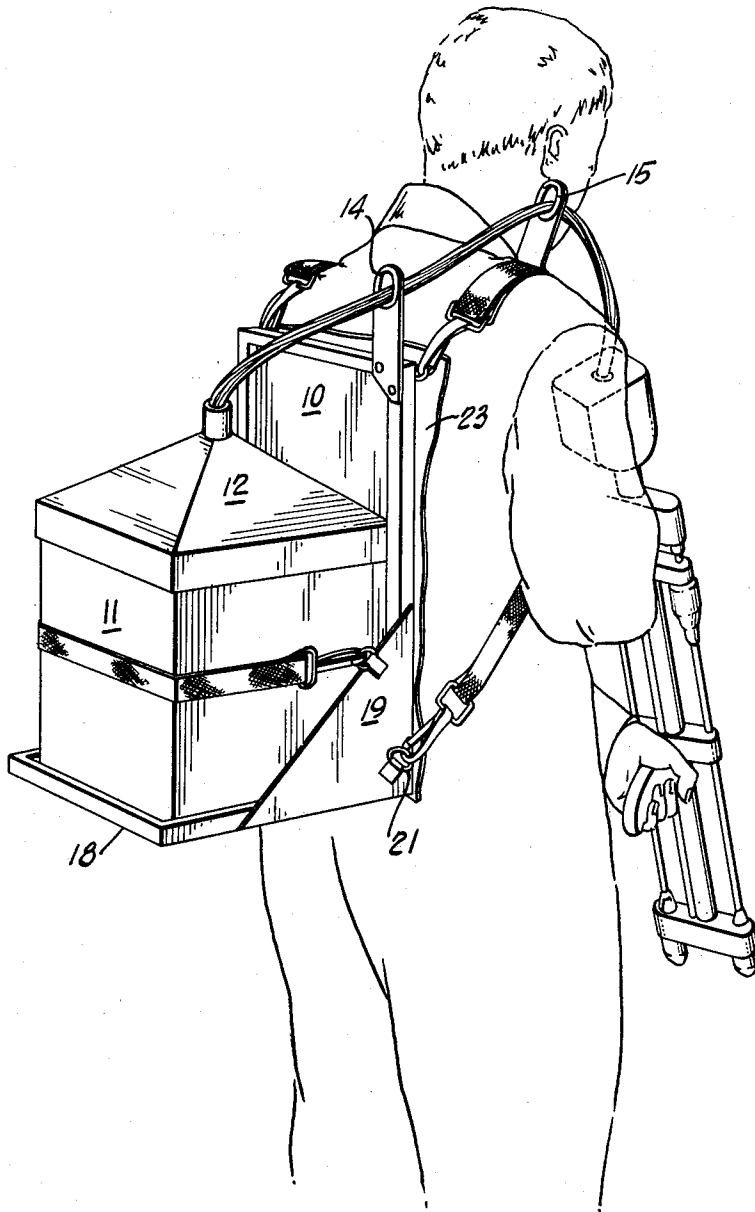
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Fig. 1.



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Fig. 2.

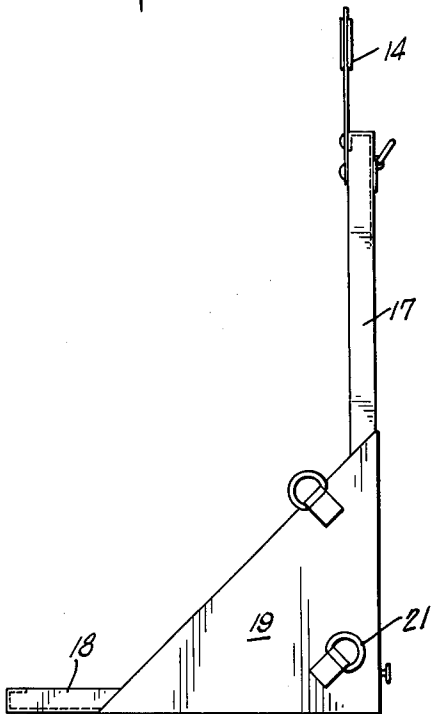


Fig. 3.

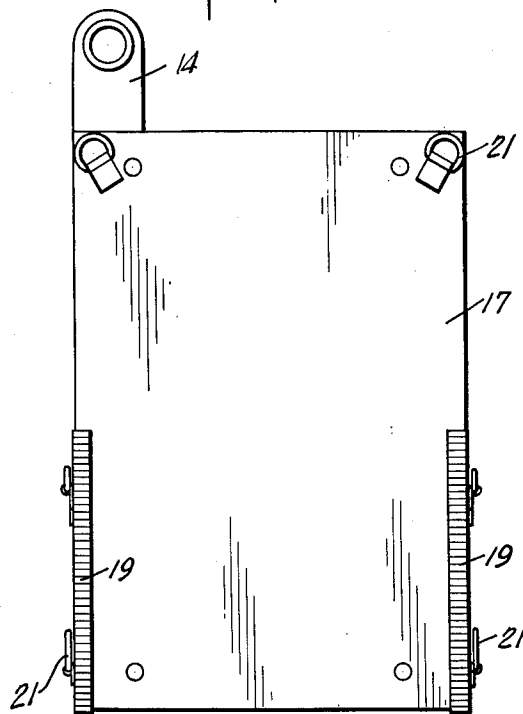
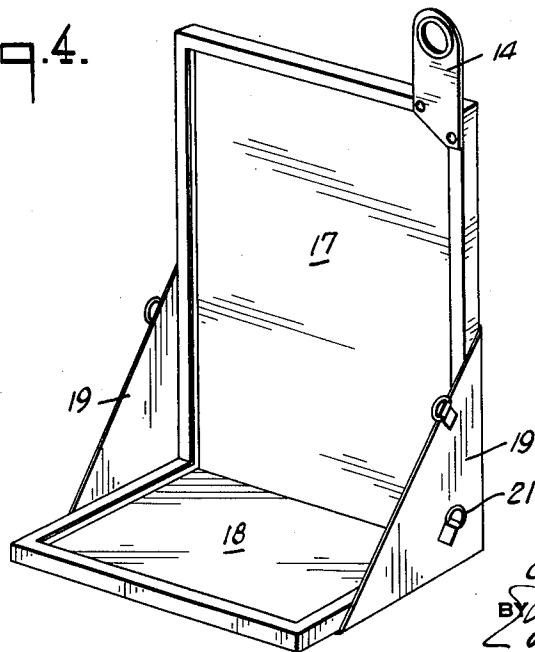


Fig. 4.



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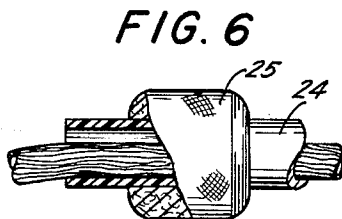
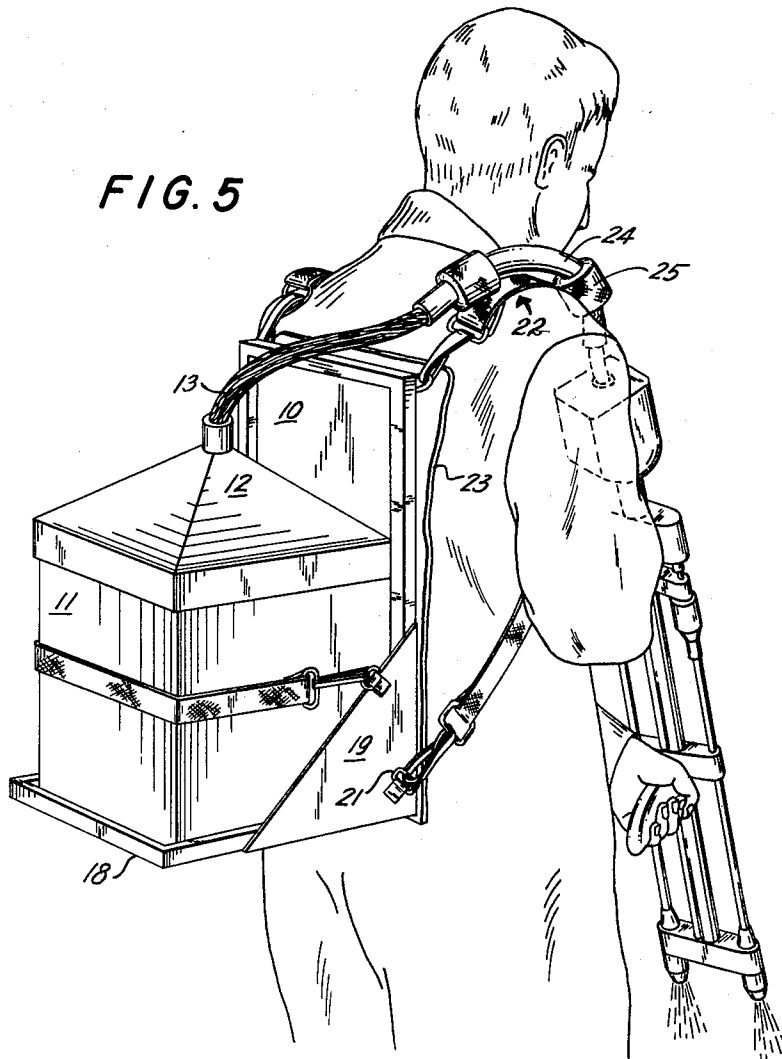
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3 Claims. (Cl. 224-26)

The following invention relates to a back pack and harness and more particularly to a back pack and harness suitable for carrying glass fiber rovings or the like on a man's back. The pack is adapted to feed the rovings to a gun carried by the man engaged in coating a roof or the like.

The device is particularly suitable for use with a roofing gun which chops glass fiber or the like and blows on to a roof. As the chopped glass leaves the gun, it is sprayed with a liquid bituminous composition forming a reinforced coating on the roof. In this method of applying roofing materials, the workman usually walks back and forth across the roof. The bituminous material and compressed air for adapting the gun are supplied through tubing usually from equipment on the ground.

It is, therefore, an object of the present invention to provide a device for carrying quantities of continuous strands of fiber glass or the like.

It is a further object of the present invention to provide a device for carrying quantities of continuous strands of fiber glass or the like, and providing guide means for conveying the strands to a gun.

It is a further object of the present invention to provide guide means for conveying the strands to a gun, which guide means are adapted to prevent snarling or tangling with a minimum of friction.

These and other objects are attained by the present invention, a preferred embodiment of which is illustrated in the drawings but it will be understood that modification and substitution may be made within the scope of the claims.

Referring to the drawings:

FIGURE 1 is a prospective view of the complete device illustrated on the back of a workman.

FIGURE 2 is a side elevational view of the rack only shown in FIGURE 1.

FIGURE 3 is a front elevational view of the rack shown in FIGURE 2.

FIGURE 4 is a rear prospective view of the rack shown in FIGURE 2.

FIGURE 5 is a view similar to FIGURE 1 showing an alternative form of guide arrangement.

FIGURE 6 is an enlarged view partly in cross-section of the guide arrangement shown in FIGURE 5.

Referring to the drawings, there is shown a rack 10, a container 11 having a conical cover 12 through which roving 13 passes from the container through guides 14-15. The roving after passing through the guides enters the chopper section of a gun shown diagrammatically in the hands of an operator. Referring to FIGURES 2, 3, and 4 it will be seen that the rack 10 is an L-shaped device having a back section 17 adapted to rest against the back of the operator and a platform 18 adapted to hold the container of roving. The platform is preferably reinforced as by means of the triangular plates 19-19. Preferably the rack has mounted thereon a guide 14. It may also have strap rings 21 at various points to support a harness indicated generally at 22 of FIGURE 1. On

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the operator's back there may also be provided a pad 23 to cushion the back section 17.

An alternate guide means shown in FIGURES 5 and 6 may be utilized comprising a plastic tube 24 to carry the roving from the container 11 to the gun. The tube is somewhat more difficult to thread but is more stable if there is a strong wind. If desired, the tube 24 may include locking tabs or grips 25 to assist in maintaining the position of the tube on the operator's shoulder. Other means for insuring the proper location of tube 24 during use will readily occur to those skilled in the art. In the use of the gun which in itself does not form a part of this invention, there are usually provided air hoses and hoses to bring liquid bituminous composition to the gun to be sprayed together with the glass fiber or other fiber which is chopped and blown from the gun.

By the use of the back pack glass fiber roving or the like is fed from a coil inside the container virtually without resistance through the cone and through the guide ways or tubing to the gun. The guide ways and the apex of the cone as well as the tubing may be of a resinous material which is resistant to wear as well as one not inclined to cause a static charge, as for example the product called "Teflon" manufactured by the Lupon Company.

The use of the device makes it possible for a man to walk around a roof area dragging only the liquid and air hoses while having on his back the glass fiber roving or the like which is not susceptible to delivery of the gun by long hoses utilized in the new roof coating system.

What I claim is:

1. A pack for carrying a continuous roving of fiber strands on the back of an operator, said roving being adapted to travel from said pack to a device in the hands of the operator, comprising a supporting frame, a harness attached to said frame and being adapted to pass around the shoulders of the operator so as to hold said frame in position on the back of the operator, a container for said roving adapted to be secured to said frame to thereby hold said container on the back of the operator, said container having an opening therein for removal of said roving in an upward direction, and guide means for positively controlling the path of travel of said roving from said container to said device over the shoulder of the operator so that said roving is maintained out of the normal area of operation of the arms of the operator.

2. A pack according to claim 1 wherein said guide means comprises a hollow tube through which said roving is adapted to pass, and means for positively locating said hollow tube so that it passes over the shoulder of the operator to device in his hands.

3. A pack according to claim 1 wherein said guide means includes a plurality of individual guide rings through which said roving is adapted to pass, at least one guide ring being secured to the upper portion of said frame and at least one guide ring being secured to said harness at a portion thereof adapted to pass over the shoulder of the operator so that it will be located above such shoulder.

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