

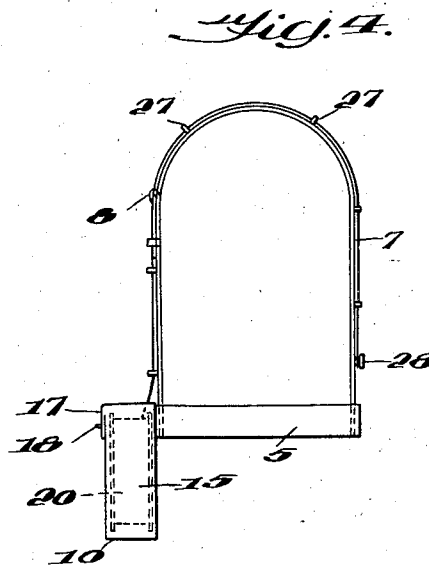
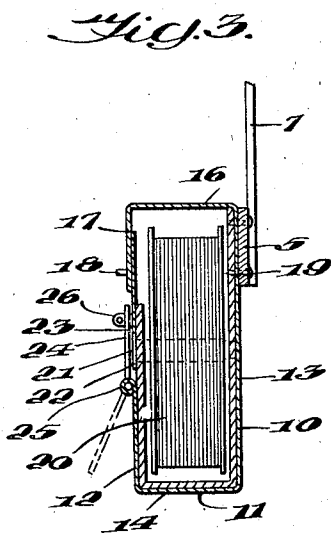
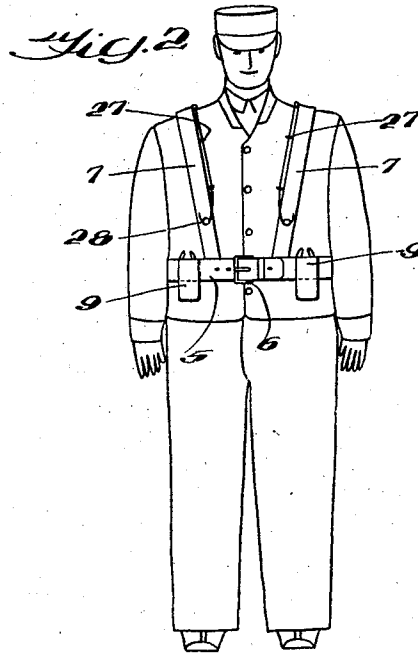
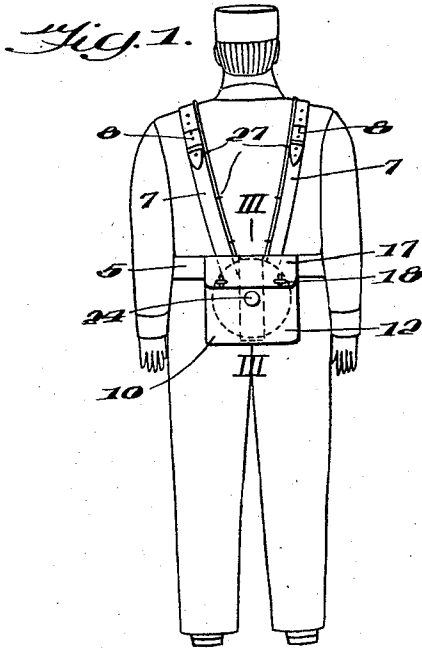
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WIRE CARRIER FOR WORKMEN

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WIRE CARRIER FOR WORKMEN

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4 Claims. (Cl. 242—97)

This invention relates to workmen's article carriers, and has particular reference to an improved harness having waist and shoulder straps formed to receive and support various tools and materials used by workmen in performing industrial operations.

While my improved carrier is not so limited, and may be used in many other capacities, it has been especially designed for use by workmen engaged in the operations of positioning metallic reinforcing rods, and holding the same in proper relative order, preparatory to the pouring of freshly mixed concrete. Such an operation requires the workman to unite the spaced reinforcing rods with relatively short lengths of wire, the wire being twisted about the rods at intersectional points to tie and hold the same in a predetermined relative order. In executing this operation, the workman quite commonly places a coil of wire around his neck with the coil resting on the shoulders. The wire is then drawn off the coil and plier cut to desired lengths to complete a given tying operation.

It frequently happens that when the wire is so positioned and used, the same injures the skin, often causing painful cuts, abrasions or lacerations. To prevent this condition, certain workmen carry the wire coil on the fore part of one arm, but this practice hampers the workman by preventing the latter from freely using both hands and arms in performing his tasks. Such methods of carrying the wire coil tends to jeopardize the safety of the workmen, particularly when working on elevated scaffolds.

Accordingly, it is an object of the present invention to provide an improved wire carrier or harness for such workers embodying waist and shoulder straps which, when tightened and adjusted on the wearer, support at the back thereof a holder for the reception of a spool of wire, the shoulder straps being provided with guides through or over which the free end portions of the wire are advanced to the front of the wearer, where it may be conveniently grasped and used as the work at hand demands.

It is another object of the invention to provide a workman's tool and material carrier of the character indicated, and wherein the holder for the wire coil is constructed to provide for ready insertion and removal of the spooled wire.

A further object is to provide a harness for wire workers which is of such construction as to leave both hands of a worker free to execute various tasks, to reduce fatigue and provide a construc-

tion in which the safety of the worker is enhanced.

For a further understanding of the invention, reference is to be had to the following description and the accompanying drawing, wherein:

5 Fig. 1 is a rear elevational view of the improved tool and material carrier comprising the present invention, the same being shown as applied to the back of a wearer;

10 Fig. 2 is a front elevational view of the carrier, showing its operative position on a wearer;

Fig. 3 is a detail vertical sectional view taken on the plane indicated by the line III—III of Fig. 1;

15 Fig. 4 is a side elevational view of the carrier detached from the wearer.

My improved tool and material carrier for industrial workers comprises a harness which is adapted to be worn over the outer garments of a 20 worker. The harness comprises a waist belt 5, which is adapted to be buckled, as at 6, about the waist of a worker. The belt has secured thereto the lower ends of a pair of shoulder straps 7, each of these straps being provided with adjusting 25 buckles 8 to adapt the harness to workers of different stature, and to enable the same to fit snugly and without undue looseness. The front of the waist belt may be provided with one or more pockets 9 for the reception of various tools, such as a pair of wire manipulating and cutting pliers. 30

Supported at the back of the waist belt 5 is a wire holder or carrier 10. In this instance, the latter comprises a U-shaped metallic frame 11 to which is applied an outer covering or casing of 35 any suitable material, the said casing embodying a front wall 12, a parallel back wall 13, a bottom 14, vertical end walls 15 and a flexibly or hinged movable top wall 16, the latter being provided at its front with a depending flap 17 which is adapted 40 to be retained in its closed position by turnable fasteners 18. These fasteners are carried by the front wall 12 and are receivable within openings provided in the flap 17. The holder or carrier may be riveted, for example, as at 19, to 45 the waist belt 5.

The said holder or carrier is adapted to receive in a removable manner a spool 20 of wire. This spool is rotatably positioned on a removable and axially located pin 21, the latter being received 50 within openings provided in the frame 11. The headed end 22 of said pin is positioned in an opening 23 provided in the front wall 12. Normally, the pin is held against removal from its operative position by means of a disk 24 which is 55 hinged as at 25 to the front wall 12. The disk

is formed with an opening for the reception of an apertured post 26 projecting from the front member of the frame 11. It will be seen that by swinging the disk to its lower dotted line position disclosed in Fig. 3, the head of the pin 21 is accessible so that the pin may be removed from the holder or carrier, and when the cover, formed by the wall 16 and the flap 17, is elevated, the wire spool may be removed or replaced.

The free end portions of the wire withdrawn from the spool 20 are passed through an opening in the top wall 16 and then trained through spaced guides 27, conveniently eye guides, carried by one or both of the shoulder straps 7. Usually, the guides are provided on both straps in order to render the appliance adaptable for either right or left handed workers. By so guiding the free length of the wire, it is maintained in close proximity to the body of the worker, and is prevented from becoming caught in adjacent objects, where it might cause injuries. The free end of the wire is grasped by the worker and is drawn outwardly, unreeling from the spool 20. When the desired length has been reached, the wire may be severed by the use of pliers for permanent application to the work. The shoulder straps 7 may be provided with buttons 28, around which the free end of the wire is wrapped to prevent it from injuring the worker or becoming caught in adjacent bodies.

In view of the foregoing, it will be seen that the present invention provides an efficient and effective carrier for workmen's tools and materials. The device, when worn, does not in any way hamper a workman in his occupational activities, but on the contrary, allows the worker to move freely, enabling the worker to use both hands and to execute tasks with less fatigue and maximum facility. The device may be attractively finished and, when worn, presents a neat military appearance which meets with the approval of most of the users thereof.

Another feature of the device is that it tends to save wire. When the wire is carried loosely on the arms and neck of a worker, there is a tendency to waste the wire, either by using excessive lengths or by accidentally dropping the same in relatively inaccessible locations. With the present invention, and because of its inherent simplicity and convenience, most workers employ merely the requisite amount of wire to perform a given operation, and wastage through loss of dropping of the wire is eliminated.

While I believe the above described embodiment of my invention to be a preferred one, it should be understood that I do not desire to be limited to the exact details of design and construction shown and described, since obvious modifications will occur to any person skilled in the art.

I claim:

1. A wire carrier for workers utilizing wire in industrial occupations, comprising a harness composed of a waist belt and a pair of shoulder straps adapted to be worn over the outer garments of a worker, a holder carried by said waist belt at the back thereof for the rotatable reception of a spool of wire, and guides carried by at least one of said shoulder straps through which wire withdrawn from the spool is trained over the shoulders of the wearer to the front.

2. A tool and material carrier for industrial workers comprising a harness embodying an adjustable waist belt, a pair of shoulder straps united at their ends with said belt, a frame carried by said belt and operatively located at the back of the worker, means carried by said frame for the rotatable and removable reception of a spool of wire, and guides carried by at least one of said shoulder straps through which wire withdrawn from said spool is trained.

3. In a wire-handling appliance, a harness structure including waist and shoulder straps, a reel casing carried by the waist strap adjacent to the back of the wearer, a pin removably positioned in said casing for the rotatable support of a wire holding reel, and a pivoted locking device operative when actively positioned to prevent withdrawal of said pin from said casing and when inactively positioned to admit of the withdrawal of said pin and the removal of the reel from the casing.

4. A tool and material carrier for industrial workers comprising a harness embodying an adjustable waist belt, a pair of shoulder straps united at their ends with said belt, a frame carried by said belt and operatively located at the back of the worker, means carried by said frame for the rotatable and removable reception of a spool of wire, guides carried by at least one of said shoulder straps through which wire withdrawn from said spool is trained, and means carried by one of said shoulder straps for attaching the free end of the wire withdrawn from said reel thereto.

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